

Topper Mantra Innovation Challenge (TMIC) 2026

Theme 4: Society & Women Safety

50 Premium Hackathon Problem Statements | Classes 8–12

Segmented handbook edition with bold section labels, objective bullets, and proper spacing.

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Segment A: Public Space & Route Safety Systems

TMIC-SWS-001

Safe Route Risk Scoring System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students, girls, and working women often travel through routes that differ in safety depending on lighting, crowd presence, time of day, public transport access, and local support points. Many unsafe routes are known informally but are not mapped in a structured way. A data-driven route risk system can help communities make safer travel decisions and identify infrastructure gaps.

Problem Statement: Build a solution that scores school, coaching, market, and bus-stop routes based on lighting, crowd density, CCTV availability, police access, public transport frequency, past unsafe reports, and time of day.

Objectives:

- Create route-wise safety scoring logic
- Use observable and reportable safety indicators
- Support safer travel decisions without exposing users
- Help schools or local bodies identify weak points

Scope of Innovation: Teams may build a map, mobile prototype, paper-based audit tool, scoring dashboard, route comparison engine, community reporting model, or hybrid system using local observations and structured parameters.

Expected Impact: Students and citizens can identify safer travel options, while schools and communities get actionable insights to improve risky locations.

Challenge Tags: Route Safety • Risk Scoring • Public Space • Women Safety

TMIC-SWS-002

Broken Streetlight Detection and Escalation System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Poor or non-working streetlights make lanes, bus stops, school routes, markets, and public spaces feel unsafe after dark. Complaints about broken streetlights often remain informal, delayed, or untracked. A structured reporting and escalation solution can help authorities respond faster and improve night-time safety.

Problem Statement: Build a system that allows citizens or students to report non-working streetlights, auto-locate the issue, track repair status, and escalate unresolved complaints to local authorities.

Objectives:

- Enable quick reporting of faulty lights
- Track repair status transparently
- Prioritize high-risk dark zones
- Reduce delay between complaint and action

Scope of Innovation: Solutions may include QR reporting, map-based complaint logging, photo evidence, repair dashboards, escalation workflows, SMS updates, community verification, or low-tech streetlight audit cards.

Expected Impact: Dark public spaces are identified faster, repair accountability improves, and night-time movement becomes safer for students and women.

Challenge Tags: Streetlight • Civic Tech • Safety Infrastructure • Escalation

TMIC-SWS-003

Unsafe Zone Heatmap for Women and Students

Theme: Society & Women Safety

Category: Classes 8-12

Background: Many unsafe zones are created by a combination of isolated spaces, poor lighting, broken infrastructure, harassment-prone spots, abandoned areas, and weak public visibility. These risks are often scattered and not visible to

decision-makers. A privacy-safe heatmap can convert local experience into useful safety intelligence.

Problem Statement: Build a privacy-safe mapping tool that identifies unsafe public zones using community reports, poor lighting, isolated spots, broken infrastructure, harassment reports, and route conditions.

Objectives:

- Collect safety inputs without revealing identities
- Visualize risk concentration on a map
- Support evidence-based local improvements
- Identify patterns by location and time

Scope of Innovation: Participants may create a heatmap, risk reporting form, offline map board, dashboard, school safety audit app, or community data model with safeguards against misuse and false reporting.

Expected Impact: Communities can locate high-risk zones and prioritize practical improvements such as lighting, patrolling, signage, or safer waiting spaces.

Challenge Tags: Unsafe Zones • Heatmap • Privacy • Public Safety

TMIC-SWS-004

Safe Waiting Area Locator

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students and women often wait near coaching centres, hospitals, markets, railway stations, bus stops, and public offices. Waiting areas may be unsafe if they are isolated, poorly lit, overcrowded, or far from help. A safer waiting area locator can help people choose better spots and help authorities improve weak locations.

Problem Statement: Build a solution that helps women and students identify safer waiting points near schools, coaching centres, hospitals, markets, bus stops, railway stations, and public offices.

Objectives:

- Identify safer waiting locations
- Compare lighting, crowd, visibility, and help access
- Support temporary and permanent waiting arrangements
- Improve confidence during unavoidable waiting time

Scope of Innovation: Teams may design a locator app, printed safety map, rating system, signage model, verified waiting point network, or dashboard for institutions and local authorities.

Expected Impact: Women and students gain better information about where to wait safely, and communities can improve high-need waiting zones.

Challenge Tags: Waiting Areas • Public Space • Travel Safety • Mapping

TMIC-SWS-005

Night Travel Safety Planner

Theme: Society & Women Safety

Category: Classes 8-12

Background: Evening and night travel increases risk because of reduced visibility, lower public presence, irregular transport, and difficulty contacting help quickly. Students may return from tuition, libraries, coaching, events, hospitals, or work after dark. A safety planner can reduce uncertainty by comparing options before travel begins.

Problem Statement: Build a system that helps students and working women plan safer evening or night travel by comparing route safety, transport availability, emergency contacts, and live location-sharing options.

Objectives:

- Compare travel options by safety factors
- Support emergency contact readiness
- Reduce dependence on unsafe last-minute choices
- Protect privacy during travel planning

Scope of Innovation: Solutions may include route comparison tools, check-in workflows, trusted contact plans, transport availability maps, safety timers, or offline planning cards for low-resource settings.

Expected Impact: Night travel becomes more planned, informed, and safer for students and women.

Challenge Tags: Night Travel • Safety Planning • Route Comparison • Emergency Contacts

TMIC-SWS-006

School-to-Home Travel Check-In System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Parents and schools often worry whether students have safely reached school, home, coaching, or bus stops. Continuous tracking can harm privacy and create over-monitoring, while no tracking can delay response when something goes wrong. A check-in system can provide safety confirmation without constant surveillance.

Problem Statement: Build a privacy-conscious check-in system that confirms whether students have safely reached home, coaching, or school without continuously tracking them.

Objectives:

- Confirm safe arrival at key points
- Avoid continuous location tracking
- Alert trusted contacts only when needed
- Support students using different modes of travel

Scope of Innovation: Teams may build QR check-ins, SMS confirmation, guardian alerts, school bus checkouts, geofence-lite systems, manual class registers, or hybrid offline-digital check-in workflows.

Expected Impact: Parents and schools get timely safety confirmation while students retain privacy and dignity.

Challenge Tags: Check-In • Student Travel • Privacy • Parent Alert

TMIC-SWS-007

Public Transport Safety Feedback System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Girls and women may face discomfort or safety risks in buses, autos, vans, shared vehicles, and at transport stops. Existing feedback channels are often unavailable, public, or difficult to use. A structured and anonymous feedback system can reveal repeated safety issues and improve accountability.

Problem Statement: Build a system where women and students can rate safety conditions of buses, autos, vans, routes, drivers, stops, and travel timings without exposing personal identity.

Objectives:

- Collect transport safety feedback safely
- Identify repeated route or vehicle concerns
- Protect user identity
- Support better transport monitoring

Scope of Innovation: Solutions may include route rating forms, vehicle QR codes, anonymous feedback dashboards, driver behaviour logs, stop safety scoring, school transport reports, or escalation workflows.

Expected Impact: Transport safety concerns become visible and actionable without forcing individuals to publicly identify themselves.

Challenge Tags: Public Transport • Anonymous Feedback • Route Safety • Accountability

TMIC-SWS-008

Safe Auto and Cab Verification Tool

Background: Students and women often use autos, cabs, vans, or shared vehicles where driver and vehicle details may not be verified. In stressful situations, manually sending details to family can be slow. A simple verification tool can improve confidence before boarding and create a safety trail.

Problem Statement: Build a low-cost verification system that helps students and women confirm vehicle number, driver details, route sharing, and emergency contacts before boarding local transport.

Objectives:

- Verify basic vehicle and driver information
- Share trip details with trusted contacts
- Reduce manual effort before boarding
- Support local transport contexts

Scope of Innovation: Teams may create QR stickers, vehicle verification cards, SMS sharing formats, photo-log tools, community driver registries, route slips, or low-data mobile prototypes.

Expected Impact: Travellers make safer boarding decisions and trusted contacts receive useful trip information quickly.

Challenge Tags: Transport Verification • Auto Safety • Cab Safety • Trusted Contacts

TMIC-SWS-009

Crowd Safety Monitoring for Public Events

Background: School fairs, festivals, exhibitions, melas, sports days, and public gatherings can become risky when crowds are not managed properly. Overcrowding, blocked exits, separated children, harassment-prone spots, and delayed emergency response can create unsafe conditions. A monitoring model can help organizers act early.

Problem Statement: Build a system that helps schools, fairs, festivals, exhibitions, and public gatherings identify overcrowding, unsafe entry-exit flow, separated children, and emergency response needs.

Objectives:

- Detect crowding and flow problems
- Support emergency entry-exit planning
- Help locate separated children quickly
- Improve event safety coordination

Scope of Innovation: Participants may build crowd maps, volunteer dashboards, entry-exit counters, help point networks, lost-child workflows, public announcement systems, or event safety audit tools.

Expected Impact: Events become safer, more organized, and more responsive to crowd-related risks.

Challenge Tags: Crowd Safety • Event Management • Emergency Response • Public Gathering

TMIC-SWS-010

Women-Friendly Public Space Redesign Model

Background: Public spaces are not equally comfortable for everyone. Poor lighting, hidden corners, lack of seating, unsafe toilets, isolated pathways, and weak signage can reduce women's confidence and mobility. Design thinking can help convert ordinary public spaces into safer and more inclusive environments.

Problem Statement: Build a design prototype or assessment model that improves safety in parks, markets, bus stops, lanes, and public spaces through lighting, visibility, seating, help points, signage, and accessibility.

Objectives:

- Assess public spaces through safety indicators
- Improve visibility and access to help

- Support inclusive design for women and students
- Create practical redesign recommendations

Scope of Innovation: Teams may create 3D models, layout redesigns, safety audit tools, before-after maps, street furniture prototypes, signage systems, or community improvement plans.

Expected Impact: Public spaces become safer, more inclusive, and more usable for women, children, elderly citizens, and students.

Challenge Tags: Urban Design • Public Space • Inclusion • Women Safety

Segment B: Emergency Response & Safety Devices

TMIC-SWS-011

Low-Cost Emergency Alert Device

Theme: Society & Women Safety

Category: Classes 8-12

Background: During unsafe situations, a person may not have time to unlock a phone, type a message, or make a call. A low-cost emergency trigger can reduce response time and help trusted people receive essential information quickly. The challenge is to make the device simple, affordable, and privacy-conscious.

Problem Statement: Build a wearable, card-based, button-based, or phone-based emergency alert solution that can notify trusted contacts during unsafe situations with minimum steps.

Objectives:

- Enable one-step or minimum-step alerting
- Send useful information to trusted contacts
- Keep the solution affordable
- Avoid unnecessary or accidental alerts

Scope of Innovation: Solutions may include safety buttons, smart cards, keychains, simple circuits, phone shortcuts, SMS triggers, vibration feedback, or prototype wearables with clear activation logic.

Expected Impact: Users can request help faster during unsafe situations with a simple and accessible emergency tool.

Challenge Tags: Emergency Alert • Wearable • Low-Cost Device • Safety Tech

TMIC-SWS-012

Silent Distress Signal System

Theme: Society & Women Safety

Category: Classes 8-12

Background: In some unsafe situations, openly calling for help can increase risk. Students or women may need a discreet way to signal distress without alerting the unsafe person nearby. A silent alert system must be quick, reliable, and understandable to trusted responders.

Problem Statement: Build a solution that allows a girl, woman, or student to silently signal distress to trusted contacts, nearby helpers, or school authorities without alerting the unsafe person.

Objectives:

- Create a discreet distress trigger
- Notify trusted responders without visible panic
- Reduce misuse and accidental activation
- Support clear response instructions

Scope of Innovation: Participants may explore coded messages, hidden buttons, gesture-based triggers, wearable signals, school desk alerts, SMS codes, or silent notification workflows.

Expected Impact: People in distress can seek help more safely when open communication is difficult.

Challenge Tags: Silent Alert • Distress Signal • Privacy • Emergency Response

TMIC-SWS-013

Emergency Contact Escalation Engine

Theme: Society & Women Safety

Category: Classes 8-12

Background: Emergency alerts often fail when the first contact misses the call or message. A structured escalation engine can automatically move the alert to the next trusted contact or authority based on response time. This makes emergency communication more reliable and less dependent on one person.

Problem Statement: Build a system that automatically escalates an emergency alert from friend to parent to teacher to local authority if the first contact does not respond within a defined time.

Objectives:

- Create tiered emergency contact logic
- Track response and acknowledgement
- Reduce delay in urgent situations
- Allow custom contact hierarchy

Scope of Innovation: Solutions may include escalation dashboards, call/SMS chains, acknowledgement buttons, school response workflows, guardian groups, or prototype algorithms for emergency routing.

Expected Impact: Emergency alerts become more reliable because help requests do not stop at one missed contact.

Challenge Tags: Escalation • Emergency Contacts • Response Workflow • Safety System

TMIC-SWS-014

Offline Safety Alert System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Many safety solutions depend on internet connectivity, but emergencies may occur in low-network areas, during travel, in rural routes, or inside crowded public events. Offline or low-network alert methods can make safety tools more inclusive and reliable.

Problem Statement: Build a safety alert solution that can work in low-network or no-internet conditions using SMS, Bluetooth, local signal, QR, siren, or offline trigger methods.

Objectives:

- Support low-network emergency communication
- Use accessible offline technologies
- Reduce dependence on smartphones and internet
- Design for rural and crowded contexts

Scope of Innovation: Teams may create SMS protocols, Bluetooth mesh concepts, whistle or siren triggers, QR emergency cards, radio-based ideas, offline check-in cards, or hybrid systems.

Expected Impact: Safety support becomes usable even when internet access is weak or unavailable.

Challenge Tags: Offline Safety • SMS • Low Network • Emergency Tech

TMIC-SWS-015

Smart ID Card for Student Safety

Theme: Society & Women Safety

Category: Classes 8-12

Background: Student ID cards are usually used only for identification, but they can also support emergency contact access, guardian verification, medical alerts, and safe return assistance. The challenge is to add safety value without exposing sensitive information publicly.

Problem Statement: Build a school ID card prototype that can support emergency contact access, medical/safety information, safe return support, or QR-based guardian verification while protecting privacy.

Objectives:

- Add safety functions to student ID cards
- Protect private information
- Support safe return and guardian verification
- Keep the design practical for schools

Scope of Innovation: Participants may develop QR cards, sealed emergency info cards, NFC concepts, guardian verification workflows, lost student support systems, or privacy-layered ID prototypes.

Expected Impact: Student ID cards become practical safety tools during travel, events, emergencies, or lost-and-found situations.

Challenge Tags: Smart ID • Student Safety • QR System • Privacy

TMIC-SWS-016

Safety Bracelet or Keychain Prototype

Theme: Society & Women Safety

Category: Classes 8-12

Background: A safety tool is most useful when it is easy to carry and quick to activate. Bracelets, badges, keychains, or bag tags can be designed as low-cost safety aids for students and women. The prototype should focus on reliability, affordability, and real-world usability.

Problem Statement: Build a low-cost safety bracelet, keychain, badge, or wearable prototype that can trigger alerts, store emergency information, or support self-protection during unsafe situations.

Objectives:

- Create a portable safety prototype
- Keep cost and maintenance low
- Support quick use during emergencies
- Make the design acceptable for daily use

Scope of Innovation: Teams may build physical models, circuit prototypes, QR keychains, emergency info capsules, buzzer devices, location-sharing triggers, or wearable concept demonstrations.

Expected Impact: Students and women gain a simple safety aid that can be carried daily without high cost.

Challenge Tags: Wearable Safety • Keychain • Prototype • Emergency Tool

TMIC-SWS-017

Separated Child Recovery System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Children can get separated from guardians during school trips, fairs, railway stations, markets, public events, or crowded campuses. Panic and delay can make recovery difficult. A structured system can help identify, protect, and reunite separated children quickly.

Problem Statement: Build a system that helps schools, parents, and event organizers quickly locate and reunite a child who gets separated during school trips, fairs, railway stations, markets, or public events.

Objectives:

- Enable quick reporting of a separated child
- Verify guardians safely
- Coordinate volunteers and help points
- Reduce panic during crowded events

Scope of Innovation: Solutions may include child ID bands, QR reunion cards, help desk workflows, lost-child dashboards, volunteer maps, announcement protocols, or school trip tracking systems.

Expected Impact: Separated children can be reunited with guardians faster and more safely during public events or travel.

Challenge Tags: Child Safety • Lost Child • Event Safety • Guardian Verification

TMIC-SWS-018

Emergency Help Point Network

Theme: Society & Women Safety

Category: Classes 8-12

Background: In unsafe situations, students or women may not know where to seek immediate help nearby. Shops, schools, pharmacies, security booths, police posts, or verified homes can act as help points if properly identified and managed. A help point network must include verification and safety rules.

Problem Statement: Build a model for verified help points near schools, coaching centres, markets, and bus stops where students and women can safely seek assistance.

Objectives:

- Identify trusted local help points
- Verify and categorize support locations
- Provide clear help-seeking instructions
- Prevent misuse of the network

Scope of Innovation: Participants may create help point maps, stickers, verification protocols, community volunteer systems, QR directories, school-coaching safety corridors, or dashboard models.

Expected Impact: People in unsafe situations can locate nearby trusted support faster, strengthening community-based safety.

Challenge Tags: Help Points • Community Safety • Verification • Local Support

TMIC-SWS-019

School Bus Emergency Response System

Theme: Society & Women Safety

Category: Classes 8-12

Background: School buses and vans may face breakdowns, route deviations, unsafe stops, student illness, delays, or harassment concerns. Parents and schools need timely, structured information during transport emergencies. A response system can reduce confusion and improve accountability.

Problem Statement: Build a solution that helps school buses or vans respond to breakdowns, unsafe stops, route deviations, student illness, harassment, or emergency situations during travel.

Objectives:

- Improve emergency response during school transport
- Notify school and parents quickly
- Track unresolved transport incidents
- Support drivers and attendants with clear protocols

Scope of Innovation: Solutions may include bus emergency buttons, incident logs, route deviation alerts, parent communication formats, student checklists, transport dashboards, or offline response cards.

Expected Impact: School transport becomes safer, more transparent, and better prepared for emergencies.

Challenge Tags: School Bus • Transport Safety • Incident Response • Parent Alert

TMIC-SWS-020

Safety Incident Response Dashboard

Theme: Society & Women Safety

Category: Classes 8-12

Background: Schools and communities may receive safety complaints but lack a single place to monitor incidents, response time, unresolved risks, and corrective action. Without dashboards, the same issues may repeat. A response dashboard can convert scattered complaints into structured action.

Problem Statement: Build a dashboard that helps a school or community track safety incidents, response time, unresolved risks, unsafe locations, and corrective action status.

Objectives:

- Track safety incidents in one place
- Monitor response and closure status
- Identify repeated risks by location or type
- Support accountable follow-up

Scope of Innovation: Teams may create dashboards, spreadsheet-based systems, complaint status trackers, incident heatmaps, action boards, authority workflows, or visual management tools.

Expected Impact: Institutions can respond to safety concerns more systematically and reduce repeated unresolved risks.

Challenge Tags: Dashboard • Incident Response • Safety Management • Accountability

Segment C: Reporting, Evidence & Privacy-Safe Support

TMIC-SWS-021

Confidential Harassment Reporting System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Many students and women avoid reporting harassment because they fear blame, exposure, retaliation, or not being believed. A confidential reporting system must allow safe sharing while ensuring serious cases reach responsible adults or authorities. Privacy, trust, and escalation are central to the challenge.

Problem Statement: Build a confidential reporting tool where students or women can report harassment, stalking, teasing, bullying, or unsafe behaviour without public exposure or fear of retaliation.

Objectives:

- Protect reporter identity and dignity
- Allow structured incident reporting
- Enable responsible escalation
- Build trust in the reporting process

Scope of Innovation: Participants may create encrypted forms, sealed complaint workflows, school reporting portals, counsellor-routing systems, anonymous category tagging, or offline confidential reporting models.

Expected Impact: More people feel safe to report harmful behaviour, enabling earlier support and corrective action.

Challenge Tags: Confidential Reporting • Harassment • Privacy • Safety Support

TMIC-SWS-022

Evidence Vault for Safety Complaints

Theme: Society & Women Safety

Category: Classes 8-12

Background: Screenshots, messages, call logs, photos, and incident notes may become important when reporting harassment, threats, or repeated unsafe behaviour. However, evidence can be lost, deleted, exposed, or misused. A secure evidence vault can help preserve information safely.

Problem Statement: Build a secure digital or physical system that helps victims safely store screenshots, messages, photos, call logs, location notes, or incident details for future reporting.

Objectives:

- Store evidence safely and privately
- Organize incident details by date and type
- Prevent unauthorized access
- Support future complaint filing

Scope of Innovation: Solutions may include secure folders, encrypted vault prototypes, physical evidence envelopes, timeline builders, screenshot organizers, consent-based sharing, or school support workflows.

Expected Impact: Affected individuals can preserve useful evidence safely while reducing fear of exposure or loss.

Challenge Tags: Evidence Vault • Privacy • Complaint Support • Digital Safety

TMIC-SWS-023

Repeated Harassment Pattern Detector

Theme: Society & Women Safety

Category: Classes 8-12

Background: A single incident may seem isolated, but repeated harassment can follow patterns involving the same location, timing, route, person, or behaviour. Schools and communities often miss these patterns because reports are scattered. Pattern detection can support early intervention.

Problem Statement: Build a system that helps identify repeated incidents involving the same location, person, route, timing, or behaviour so that early action can be taken.

Objectives:

- Detect repeated safety patterns
- Use structured incident categories
- Support early intervention
- Avoid exposing sensitive personal details

Scope of Innovation: Teams may design pattern dashboards, category tags, route-time analysis, school complaint analytics, repeated offender/location alerts, or privacy-safe reporting models.

Expected Impact: Repeated unsafe behaviour becomes easier to identify and address before it escalates further.

Challenge Tags: Pattern Detection • Harassment Prevention • Incident Analytics • Privacy

TMIC-SWS-024

Anonymous School Safety Feedback Tool

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students may observe unsafe areas inside buses, corridors, washrooms, classrooms, playgrounds, gates, or nearby roads, but may hesitate to complain openly. Anonymous feedback can reveal hidden safety concerns, provided it is structured and responsibly reviewed.

Problem Statement: Build a school-level tool that collects anonymous safety feedback about buses, corridors, washrooms, classrooms, playgrounds, gates, and surrounding areas.

Objectives:

- Collect hidden safety concerns
- Categorize feedback by location and issue
- Prevent misuse and false targeting
- Help school leaders prioritize action

Scope of Innovation: Solutions may include QR feedback forms, sealed slips, school safety dashboards, location-based tags, class feedback boxes, or moderation workflows.

Expected Impact: Schools understand safety concerns earlier and can improve spaces that students are hesitant to discuss openly.

Challenge Tags: Anonymous Feedback • School Safety • Student Voice • Reporting

TMIC-SWS-025

Complaint Escalation Tracker

Background: Safety complaints can lose value if they are submitted but never acted upon. Students and women may stop reporting when there is no update or closure. A complaint escalation tracker can bring transparency to the reporting and resolution process.

Problem Statement: Build a solution that tracks whether a safety complaint has reached the right authority, whether action was taken, and whether the issue remains unresolved.

Objectives:

- Track complaint journey from submission to closure
- Show status without exposing sensitive details
- Escalate unresolved issues
- Improve accountability

Scope of Innovation: Teams may create ticketing workflows, complaint dashboards, SMS status updates, authority escalation chains, closure verification forms, or offline tracking registers.

Expected Impact: Safety complaints become more accountable, reducing the chance that serious issues are ignored.

Challenge Tags: Complaint Tracking • Escalation • Accountability • Safety Governance

TMIC-SWS-026

Privacy-Safe Safety Survey System

Background: Schools and local bodies need to understand safety concerns, but direct surveys can expose identities or create fear. A privacy-safe survey system can collect useful data while protecting individual respondents. It should focus on aggregated insights, not personal exposure.

Problem Statement: Build a survey system that helps schools or local bodies understand safety concerns without revealing the identity of individual students or women.

Objectives:

- Collect safety insights safely
- Use aggregated reporting
- Avoid personal exposure
- Support data-based planning

Scope of Innovation: Participants may create anonymous survey tools, classroom polling models, safety scorecards, aggregated dashboards, paper-to-digital forms, or privacy-first data workflows.

Expected Impact: Institutions gain useful safety insights while respondents remain protected and confident.

Challenge Tags: Safety Survey • Privacy • Data Collection • Planning

TMIC-SWS-027

False Rumour Control During Safety Incidents

Background: During safety incidents, rumours can spread faster than verified information, creating panic, blame, and confusion. Schools and communities need reliable communication channels to share accurate updates without exposing victims or sensitive details.

Problem Statement: Build a communication system that helps schools or communities share verified updates during safety incidents and reduce panic, rumours, and misinformation.

Objectives:

- Share verified information quickly
- Prevent panic and misinformation

- Protect sensitive identities
- Create trusted communication flow

Scope of Innovation: Solutions may include verified update boards, emergency message templates, school broadcast workflows, rumour-reporting channels, fact-check protocols, or authority communication dashboards.

Expected Impact: Communities respond more calmly and responsibly during safety incidents, reducing panic and harm caused by rumours.

Challenge Tags: Misinformation Control • Safety Communication • Crisis Response • Verification

TMIC-SWS-028

Trusted Adult Matching System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students may need help but not know which teacher, counsellor, or staff member they can approach. Trust varies by personality, language, gender comfort, and issue type. A structured support system can help students connect with suitable adults safely.

Problem Statement: Build a school support system that helps students choose trusted teachers, counsellors, or staff members for safety-related concerns and ensures follow-up.

Objectives:

- Help students identify trusted adults
- Route concerns to suitable support persons
- Track follow-up responsibly
- Protect student privacy

Scope of Innovation: Teams may build trusted adult directories, appointment systems, QR help cards, counsellor-routing tools, student preference forms, or follow-up workflows.

Expected Impact: Students receive timely support from adults they are comfortable approaching.

Challenge Tags: Trusted Adult • Student Support • Counselling Pathway • Safety

TMIC-SWS-029

Safe Complaint Box 2.0

Theme: Society & Women Safety

Category: Classes 8-12

Background: Traditional complaint boxes can be ignored, misused, or difficult to track. Students may not know if their complaint was read or acted upon. A modern complaint box should combine privacy, categorization, escalation, and response tracking while remaining simple for schools.

Problem Statement: Build a modern version of a school complaint box using QR, sealed cards, digital forms, category tagging, privacy protection, and escalation workflow.

Objectives:

- Improve trust in complaint submission
- Categorize issues for faster action
- Protect identity when needed
- Ensure review and follow-up

Scope of Innovation: Participants may develop QR complaint portals, sealed card systems, dashboard trackers, category labels, review committees, anonymous tokens, or hybrid physical-digital boxes.

Expected Impact: Students gain a safer and more reliable way to report concerns, and schools can respond more effectively.

Challenge Tags: Complaint Box • School Safety • QR Reporting • Escalation

TMIC-SWS-030

Safety Audit Data Collection Tool

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students can identify safety gaps in schools and communities if given structured tools. Without proper formats, audits become casual observations. A data collection tool can help teams document risks, collect evidence, score locations, and recommend improvements.

Problem Statement: Build a tool that helps students conduct structured safety audits of school or community spaces using checklists, photos, maps, scoring, and improvement recommendations.

Objectives:

- Standardize safety audits
- Collect location-based evidence
- Generate improvement recommendations
- Support student-led civic problem solving

Scope of Innovation: Solutions may include mobile audit forms, printed checklists, map-based scoring, photo logs, risk dashboards, report templates, or school-community action plans.

Expected Impact: Student audits become more credible, actionable, and useful for improving real safety conditions.

Challenge Tags: Safety Audit • Data Collection • Student Research • Civic Tech

Segment D: School, Campus & Community Safety Infrastructure

TMIC-SWS-031

Safer School Gate Management System

Theme: Society & Women Safety

Category: Classes 8-12

Background: School gates become crowded during arrival and dispersal times. Vendors, vehicles, visitors, parents, buses, and students often mix in the same space, creating risks of accidents, confusion, and unauthorized entry. Better gate management can improve daily safety.

Problem Statement: Build a system that improves safety at school gates during opening and closing hours by managing crowding, vendors, vehicles, visitors, and student movement.

Objectives:

- Reduce gate crowding and confusion
- Separate student, vehicle, and visitor movement
- Improve entry-exit safety
- Support school staff with clear workflows

Scope of Innovation: Participants may design gate flow maps, queue systems, visitor zones, vehicle lanes, student dispersal cards, volunteer roles, or digital/manual gate monitoring tools.

Expected Impact: School entry and exit become safer, smoother, and better organized for students and families.

Challenge Tags: School Gate • Crowd Flow • Student Movement • Campus Safety

TMIC-SWS-032

Visitor Verification System for Schools

Theme: Society & Women Safety

Category: Classes 8-12

Background: Schools receive parents, workers, vendors, guests, drivers, and delivery persons every day. Visitor verification must protect students while avoiding unnecessary delay or disrespect. A practical system should check identity, purpose, movement, and exit status responsibly.

Problem Statement: Build a privacy-conscious visitor verification system that checks parents, vendors, workers, delivery persons, and guests without making entry slow or disrespectful.

Objectives:

- Verify visitor identity and purpose
- Maintain visitor records responsibly
- Reduce unauthorized movement
- Keep entry process respectful and efficient

Scope of Innovation: Solutions may include visitor passes, QR check-ins, appointment codes, movement tags, waiting zone workflows, staff alerts, or paper-based verification registers.

Expected Impact: Schools improve campus security while maintaining a smooth and respectful visitor experience.

Challenge Tags: Visitor Verification • School Security • Entry Management • Privacy

TMIC-SWS-033**Safe Washroom Access System**

Theme: Society & Women Safety

Category: Classes 8-12

Background: Washroom safety affects privacy, dignity, hygiene, and confidence, especially for girls, children, elderly citizens, and differently-abled users. Unsafe washrooms may have broken locks, poor lighting, no water, poor cleanliness, or no complaint route. A system can help identify and fix these problems.

Problem Statement: Build a solution that improves safety, cleanliness, privacy, and complaint reporting for school or public washrooms used by girls, women, children, and differently-abled people.

Objectives:

- Track washroom safety and usability
- Enable quick complaint reporting
- Protect privacy and dignity
- Support maintenance accountability

Scope of Innovation: Teams may create washroom scorecards, QR complaint systems, lock-condition trackers, cleanliness dashboards, accessibility audits, or maintenance escalation models.

Expected Impact: Washrooms become safer, cleaner, and more dignified for all users.

Challenge Tags: Washroom Safety • Privacy • Dignity • Maintenance

TMIC-SWS-034**Safer Coaching Centre Infrastructure Model**

Theme: Society & Women Safety

Category: Classes 8-12

Background: Many students attend coaching classes early morning or evening, sometimes in crowded buildings or isolated locations. Safety depends on entry-exit control, lighting, waiting spaces, washrooms, emergency access, and transport coordination. A structured model can help coaching centres improve safety.

Problem Statement: Build a safety assessment and improvement model for coaching centres covering entry-exit, waiting area, lighting, washrooms, transport, complaint support, and emergency access.

Objectives:

- Assess coaching centre safety conditions
- Identify infrastructure and process gaps
- Improve travel and waiting safety
- Support students attending late classes

Scope of Innovation: Participants may create audit scorecards, redesign layouts, safety dashboards, guardian check-in systems, emergency maps, complaint workflows, or coaching safety certification models.

Expected Impact: Coaching centres become safer and more accountable for students who study outside regular school hours.

TMIC-SWS-035

Safe Hostel or PG Monitoring System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Students living in hostels or PGs need systems for entry-exit safety, visitor logs, emergency contacts, complaint escalation, and night return checks. Over-monitoring can harm privacy, but weak systems can create safety gaps. The challenge is to balance protection and dignity.

Problem Statement: Build a solution that helps hostels, PGs, or student residences manage visitor logs, entry-exit safety, emergency contacts, night return checks, and complaint escalation.

Objectives:

- Improve residential safety management
- Maintain visitor and entry-exit records
- Support emergency communication
- Balance safety with resident privacy

Scope of Innovation: Solutions may include resident check-in systems, visitor registers, QR passes, emergency contact dashboards, complaint trackers, night return alerts, or hostel safety audits.

Expected Impact: Student residences become more organized, safer, and more responsive to resident concerns.

Challenge Tags: Hostel Safety • PG Monitoring • Visitor Log • Student Residence

TMIC-SWS-036

Accessible Safety System for Differently-Abled Students

Theme: Society & Women Safety

Category: Classes 8-12

Background: Differently-abled students may face unique safety challenges during movement, evacuation, transport, washroom access, crowded events, and emergency alerts. Standard safety systems often ignore accessibility. Inclusive safety design must work for students with varied mobility, visual, hearing, or cognitive needs.

Problem Statement: Build a safety solution that supports differently-abled students during movement, evacuation, emergency alerts, washroom access, transport, and public space navigation.

Objectives:

- Improve accessible emergency support
- Reduce movement and navigation barriers
- Design inclusive alerts and instructions
- Protect dignity and independence

Scope of Innovation: Participants may create accessible maps, tactile signs, audio alerts, buddy systems, evacuation aids, transport support tools, accessible washroom reporting, or inclusive safety audit models.

Expected Impact: Differently-abled students experience safer and more independent participation in school and public spaces.

Challenge Tags: Accessibility • Inclusive Safety • Emergency Support • Disability Inclusion

TMIC-SWS-037

Safer Neighbourhood Risk Fixing Model

Theme: Society & Women Safety

Category: Classes 8-12

Background: Neighbourhood safety risks may include dark lanes, open drains, abandoned areas, speeding vehicles, unsafe parks, broken footpaths, stray hazards, and isolated paths. Communities often know these risks but lack a structured way to prioritize and fix them. A risk fixing model can convert complaints into action.

Problem Statement: Build a system that helps communities identify and fix local safety hazards such as dark lanes, open drains, abandoned areas, speeding zones, unsafe parks, and isolated paths.

Objectives:

- Identify local safety hazards
- Prioritize risks by severity and urgency
- Assign action responsibility
- Track whether fixes are completed

Scope of Innovation: Teams may develop locality safety maps, hazard scoring tools, civic complaint dashboards, student audit reports, before-after documentation, or community action trackers.

Expected Impact: Neighbourhoods become safer through structured identification, prioritization, and resolution of local risks.

Challenge Tags: Neighbourhood Safety • Risk Fixing • Civic Action • Hazard Mapping

TMIC-SWS-038

School Safety Resource Map

Theme: Society & Women Safety

Category: Classes 8-12

Background: During emergencies, students and staff may not know the nearest police station, clinic, pharmacy, public toilet, help point, transport option, or safe shop. A safety resource map can make local support visible before emergencies happen.

Problem Statement: Build a map of safety resources around schools, including police stations, hospitals, pharmacies, help points, public toilets, transport points, streetlights, and safe shops.

Objectives:

- Map nearby safety resources
- Categorize support points by need
- Make emergency access easier
- Keep resource information updated

Scope of Innovation: Solutions may include printed maps, QR maps, GIS prototypes, school notice boards, student-built local directories, emergency route cards, or offline resource booklets.

Expected Impact: Schools and students can locate nearby help faster during safety, health, or travel-related situations.

Challenge Tags: Resource Map • School Safety • Emergency Access • Local Support

TMIC-SWS-039

Safety Score for Public Toilets

Theme: Society & Women Safety

Category: Classes 8-12

Background: Public toilets are essential but may be unsafe or unusable due to poor lighting, broken locks, lack of water, cleanliness issues, inaccessible design, or isolated location. Women, children, elderly people, and differently-abled citizens need reliable information about toilet safety and usability.

Problem Statement: Build a scoring and reporting tool that evaluates public toilets based on cleanliness, lighting, privacy, accessibility, water availability, lock condition, and safety.

Objectives:

- Create public toilet safety indicators
- Allow structured reporting of problems
- Support maintenance prioritization
- Improve dignity and access

Scope of Innovation: Teams may build rating cards, QR feedback, public toilet maps, maintenance dashboards, accessibility checklists, or community verification systems.

Expected Impact: Public toilets become more accountable, safer, and easier to improve based on user-centered data.

Challenge Tags: Public Toilets • Safety Score • Accessibility • Dignity

TMIC-SWS-040

Responsible CCTV Placement Planner

Theme: Society & Women Safety

Category: Classes 8-12

Background: CCTV can improve safety in some areas but can also violate privacy if placed carelessly. Schools and communities need a responsible placement model that improves visibility in public areas while protecting sensitive spaces such as washrooms, changing areas, and private zones.

Problem Statement: Build a model that helps schools or communities decide where CCTV is useful for safety while avoiding privacy violations in sensitive areas.

Objectives:

- Identify appropriate CCTV locations
- Avoid privacy-sensitive areas
- Improve blind-spot coverage
- Support responsible monitoring policies

Scope of Innovation: Participants may create campus maps, privacy risk checklists, camera angle planners, CCTV policy templates, blind-spot analysis tools, or school safety design models.

Expected Impact: CCTV use becomes more responsible, balancing safety benefits with privacy and dignity.

Challenge Tags: CCTV Planning • Privacy • Surveillance Ethics • Campus Safety

Segment E: Social Protection, Inclusion & Civic Safety Tech

TMIC-SWS-041

Safe Touch Learning Simulator for Children

Theme: Society & Women Safety

Category: Classes 8-12

Background: Children need age-appropriate tools to understand safe touch, unsafe touch, trusted adults, personal boundaries, and emergency response. Traditional lectures may feel uncomfortable or be forgotten. A simulator or game can teach safety concepts in a respectful and memorable way.

Problem Statement: Build an age-appropriate interactive simulator, game, or learning tool that helps children understand safe touch, unsafe touch, trusted adults, and emergency response.

Objectives:

- Teach personal safety clearly and respectfully
- Help children identify trusted adults
- Make learning interactive and age-appropriate
- Support teachers and parents with safe language

Scope of Innovation: Solutions may include card games, story simulations, interactive quizzes, role-play modules, comic tools, classroom kits, or digital learning prototypes with child-safe design.

Expected Impact: Children learn essential safety concepts in a way that is understandable, respectful, and practical.

Challenge Tags: Child Safety • Safe Touch • Simulator • Personal Boundaries

TMIC-SWS-042

Bystander Action Decision Tool

Theme: Society & Women Safety

Category: Classes 8-12

Background: Many people witness harassment, bullying, violence, or unsafe situations but do not know how to help safely. Direct confrontation may be risky, while doing nothing can allow harm to continue. A decision-support tool can guide bystanders toward safe and responsible action.

Problem Statement: Build a decision-support tool that guides bystanders on how to safely help during harassment, bullying, violence, child distress, or public safety incidents.

Objectives:

- Guide safe bystander response
- Reduce risky confrontation
- Encourage timely help-seeking
- Provide situation-based action options

Scope of Innovation: Teams may create decision trees, mobile prototypes, pocket cards, role-play simulators, school training tools, emergency escalation guides, or public help instructions.

Expected Impact: Bystanders become more confident and responsible in supporting safety without increasing risk.

Challenge Tags: Bystander Action • Decision Tool • Public Safety • Responsible Help

TMIC-SWS-043

Domestic Violence Help Pathway Mapper

Theme: Society & Women Safety

Category: Classes 8-12

Background: People facing domestic violence may not know whom to contact, where to go, or how to seek help safely. Any support tool must be sensitive, private, and careful because exposure can increase risk. A help pathway mapper can organize safe contacts and support options.

Problem Statement: Build a sensitive support pathway tool that helps affected individuals identify safe contacts, legal support, shelter options, helplines, and local assistance without exposing them.

Objectives:

- Map safe support pathways
- Protect user privacy and safety
- Provide step-by-step help options
- Connect to trusted resources

Scope of Innovation: Participants may develop discreet information tools, local support directories, safety planning cards, privacy-first web prototypes, helpline maps, or offline guidance kits.

Expected Impact: Affected individuals can understand available support options more safely and confidentially.

Challenge Tags: Domestic Violence Support • Help Pathway • Privacy • Social Protection

TMIC-SWS-044

Elderly Safety and Emergency Support System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Elderly people living alone or travelling locally may need help during medical issues, falls, confusion, unsafe travel, or daily support needs. Families and communities may not always know when help is required. A community-based support system can strengthen safety and dignity for elderly citizens.

Problem Statement: Build a community-based system that helps elderly people living alone access emergency contacts, medicine support, safe travel help, and trusted local assistance.

Objectives:

- Improve emergency access for elderly citizens
- Connect elderly people with trusted local support
- Support medicine and daily safety reminders
- Reduce isolation-related safety risks

Scope of Innovation: Solutions may include emergency call cards, volunteer networks, check-in systems, medicine reminder tools, safe travel support, local helper directories, or family alert workflows.

Expected Impact: Elderly citizens receive faster help, better daily support, and greater confidence in their local community.

Challenge Tags: Elderly Safety • Community Support • Emergency Help • Care System

TMIC-SWS-045

Missing Person First Response Tool

Theme: Society & Women Safety

Category: Classes 8-12

Background: When a child, elderly person, or vulnerable individual goes missing, the first few hours are critical. Families and schools often panic and may not know what steps to take, what information to collect, or whom to contact first. A guided response tool can reduce delay.

Problem Statement: Build a tool that guides families, schools, and communities through immediate steps when a child, elderly person, or vulnerable individual goes missing.

Objectives:

- Provide step-by-step first response guidance
- Organize key information quickly
- Connect to relevant contacts and authorities
- Reduce panic and delay

Scope of Innovation: Teams may build checklist apps, printable response cards, incident forms, contact trees, photo-information templates, school trip response workflows, or helpline guidance tools.

Expected Impact: Families and institutions respond faster and more systematically during missing-person situations.

Challenge Tags: Missing Person • First Response • Child Safety • Emergency Guidance

TMIC-SWS-046

Local Language Safety Help System

Theme: Society & Women Safety

Category: Classes 8-12

Background: Safety information is often written in complex language or not available in local languages. Students, parents, domestic workers, migrants, elderly people, and rural communities may struggle to understand reporting steps, helplines, or rights. A local language tool can make safety support more accessible.

Problem Statement: Build a multilingual safety help tool that explains emergency steps, rights, helplines, and reporting processes in simple local language.

Objectives:

- Make safety information easy to understand
- Support local language access
- Provide clear emergency steps
- Reduce confusion during reporting

Scope of Innovation: Participants may create voice guides, local-language cards, chatbot prototypes, IVR concepts, posters with QR audio, illustrated booklets, or offline help kits.

Expected Impact: More people can understand and use safety support systems regardless of language or literacy barriers.

Challenge Tags: Local Language • Safety Help • Accessibility • Civic Support

TMIC-SWS-047

Safer Community Volunteer Verification System

Background: Community volunteers can improve safety around school routes, events, public spaces, and emergencies. However, volunteers must be verified and managed properly to prevent misuse, confusion, or unsafe authority. A verification system can make community help more trustworthy.

Problem Statement: Build a system that verifies and manages community volunteers for school routes, events, public spaces, and emergency support while preventing misuse.

Objectives:

- Verify volunteer identity and role
- Define allowed responsibilities clearly
- Track volunteer deployment and feedback
- Prevent misuse or vigilantism

Scope of Innovation: Solutions may include volunteer ID systems, training modules, duty rosters, feedback dashboards, QR verification, school-community agreements, or event volunteer maps.

Expected Impact: Community support becomes safer, more organized, and more trustworthy for students and women.

Challenge Tags: Volunteer Verification • Community Safety • Event Support • Trust System

TMIC-SWS-048

Inclusion Risk Detector in Schools

Background: Some students face exclusion, bullying, discrimination, or social isolation because of disability, appearance, language, background, gender, financial condition, or academic performance. These risks may not be visible through marks or attendance alone. A school needs early indicators to support such students.

Problem Statement: Build a system that helps schools identify students at risk of exclusion, bullying, discrimination, or social isolation based on feedback, participation, and support indicators.

Objectives:

- Identify inclusion risks early
- Use respectful and non-judgmental indicators
- Support timely teacher intervention
- Protect student privacy

Scope of Innovation: Teams may design feedback tools, participation trackers, peer support dashboards, class climate surveys, trusted teacher alerts, or inclusion scorecards using privacy-safe methods.

Expected Impact: Schools can support vulnerable students earlier and build a more inclusive culture.

Challenge Tags: Inclusion • Bullying Prevention • Student Support • Early Warning

TMIC-SWS-049

Safety Simulation Lab for Schools

Background: Students may not know how to respond during unsafe travel, harassment, emergency alerts, cyber harassment, crowding, or missing-child situations. Practice-based learning can build confidence and decision-making. A simulation lab can make safety training practical instead of lecture-based.

Problem Statement: Build a simulation-based training model where students practice responses to unsafe travel, harassment, emergency alerts, cyber harassment, public crowding, or missing-child situations.

Objectives:

- Teach practical safety response
- Improve decision-making under pressure

- Use role-play or digital simulations
- Avoid fear-based learning

Scope of Innovation: Participants may create scenario cards, board games, digital simulations, classroom drills, VR/AR concepts, role-play kits, or safety mission labs for schools.

Expected Impact: Students become better prepared to respond safely and responsibly in real-life situations.

Challenge Tags: Safety Simulation • Experiential Learning • Student Training • Preparedness

TMIC-SWS-050

Safer Society Command Centre Model

Theme: Society & Women Safety

Category: Classes 8-12

Background: Safety problems often remain scattered across complaint boxes, maps, emergency contacts, volunteer networks, infrastructure reports, and school records. A command centre model can integrate these pieces into one local safety management view for schools or communities.

Problem Statement: Build a prototype dashboard that connects safety reports, risk maps, emergency contacts, response status, infrastructure issues, and community volunteers into one local safety management system.

Objectives:

- Integrate safety data from multiple sources
- Track response and unresolved risks
- Support coordination between stakeholders
- Enable measurable local safety improvement

Scope of Innovation: Teams may build a dashboard prototype, workflow model, command board, safety data architecture, school-community control room concept, or offline wall-based command centre.

Expected Impact: Schools and communities gain a coordinated system to monitor safety, respond faster, and improve local conditions over time.

Challenge Tags: Command Centre • Safety Dashboard • Community Response • Civic Tech