



Department of
Computer Science & Engineering
University of Liberal Arts Bangladesh

CIRS
(Campus Incident reporting system)

Submitted to
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Course Title: Design Project-II, Course Code: CSE 3200

Section: 02 , Semester: Fall 2025

Department of Computer Science and Engineering (CSE)
University of Liberal Arts Bangladesh.
Dhaka, Bangladesh

Project Proposal for Campus Incident Reporting System

Project Title:

CIRS(Campus Incident reporting system)

Team Name: Ducklings

Team Members:

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|------------------------|-----------|
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Project Objectives:

This project is about developing a smart and secure Campus Incident Reporting System that makes it easy for students and staff to report any incidents on campus quickly and safely. Users will be able to submit reports anonymously or with their name, attach photos, videos, or documents, and record details like date, time, and location. The system will let users check the status of their reports and stay updated as issues move from “New” to “Resolved.”

Administrators will have a central dashboard to view, investigate, and analyze reports, supported by categorized incidents. The goal is to create a transparent, user-friendly, and data-driven platform that strengthens campus safety, encourages responsible reporting, and supports faster response and decision-making.

Introduction:

The Campus Incident Reporting System is a web-based platform designed to make reporting and managing campus incidents simple, safe, and efficient. It allows students, teachers, and staff to easily submit reports about any incident such as harassment, theft, accidents, or safety concerns either anonymously or with their identity. Users can attach photos, videos, audio, or documents and include important details like date, time, and location.

The website provides a live dashboard for administrators to view, investigate, and update the status of each report, ensuring transparency and accountability. With built-in categorized incidents. It also includes emergency contacts or counseling support.

Overall, the website aims to create a safer and more responsive campus environment by combining ease of reporting, smart technology, and real-time communication.

Features:

- a. Submit Anonymous/Named Incident Reports
 - Allows users to report any campus incident either anonymously or by providing their name.
 - Ensures privacy and encourages open communication without fear of retaliation.
- b. Attach Photos, Videos, Audio, and Documents
 - Lets users upload multimedia evidence to support their incident reports.
 - Helps administrators verify the authenticity and seriousness of reports more effectively.
- c. Record Date, Time, and Location
 - Provides accurate context for investigations and trend analysis.
- d. View Incident Status (New, Investigating, Resolved)
 - Enables users to check the current progress of their submitted reports.
 - Allows easy filtering and searching of incidents by status, category, or date.
- e. Central Dashboard for Administrators
 - Gives administrators a single platform to manage, review, and respond to all reports.
- f. Emergency Contacts Directory
 - Provides quick access to verified emergency numbers and on-campus support contacts.
 - Ensures that users can reach the right authority or service during urgent situations.
- g. Instant Connection to Campus Counseling or Crisis Support
 - Links affected users directly to mental health counselors or crisis team

Target Users:

- Students– focus on reporting and seeking help.
- Teachers– help monitor, guide, and support resolution.
- Staff – ensure campus operations and safety follow-up

Technology Stack:

| | |
|--------------------|-------------------------|
| UI | : Figma |
| Frontend | : React.js, TailwindCSS |
| Backend | : Node.js, Next.js |
| Database | : Supabase |
| Version Control | : Git + Github |
| Hosting | : Render or Vercel |
| Project Management | : Trello |
| Testing: | : Postman |
| QA tool | : Google Forms |

Literature Review:

University of Toronto (U of T) campus safety app

(<https://www.campussafety.utoronto.ca/u-of-t-safety-app>):

The U of T Campus Safety app serves as an effective and well-connected security platform, combining key safety features such as emergency alerts, virtual escorts, live chat, maps, and support resources within a single branded application that links directly to campus security services. While its integration offers clear benefits when properly managed, the app still faces challenges related to user adoption, data privacy and transparency, accessibility, and clarity of operations including response times and data handling. Addressing these issues through actions like creating a clear privacy dashboard, improving user engagement, adding accessible interfaces, conducting independent assessments, and publicly sharing service standards would significantly enhance its reliability and strengthen user trust.

BUET's online incident report system

(<https://en.banglatribune.com/others/news/77201/BTRC-blocks-webpage-containing-reports-of-abuse-in>):

The BUET online incident reporting system was an innovative academic research project that uniquely provided an anonymous portal for complaint submissions from students on academic and serious campus safety issues. While it successfully gathered a large number of reports, especially after a high-profile violent incident, the system ultimately exposed serious gaps including lack of institutional response capability and vulnerability to censorship. The telecommunications regulator's block of the system curtailed a critical outlet for student grievances. This case highlights the need for formally supported, well-integrated, and transparent incident reporting systems in universities, which protect anonymity while ensuring complaints trigger effective investigations and actions.