PROJECT WRITE UP

Campus Care Connect

This project aims to digitalize and streamline the process followed when a student falls sick within an educational institution. In the existing system, students often bypass the Health Center and manually approach academic staff to request permission to leave the campus. This involves writing physical permission letters and obtaining multiple approvals, leading to inefficiency, misuse, and lack of proper medical verification.

The proposed system introduces a Health Center–centric digital platform that serves as the mandatory first point of contact for all unwell students. Students must report to the Health Center, where medical staff digitally record their visit, symptoms category, and medical decision. Based on the evaluation, the student may be advised to rest, return to class, or be approved to leave the campus.

If a student is approved for exit, the system automatically initiates a digital approval workflow involving the Class Advisor (CA) and Head of Department (HOD). Upon successful approval, a time-bound digital exit authorization is generated, which can be verified by security personnel at the institute gate.

The project also replaces the Health Center’s manual notebook ledger with a digital health visit record system, allowing staff to efficiently log, search, and manage daily patient records. Additionally, the system provides a doctor availability indicator, enabling students and staff to view whether the doctor is available, busy, or unavailable in real time.

At the end of each working day, the doctor submits a daily patient attendance log through the system. This log summarizes the total number of students attended, the actions taken, and exit approvals granted during the day. The daily log ensures accountability, eliminates manual end-of-day paperwork, and maintains accurate institutional health records.

Overall, the system enhances efficiency, enforces medically verified exit protocols, reduces administrative workload, and ensures transparency through centralized digital record keeping.

Tools Used:

Frontend:

React.js
Vite
TypeScript
Tailwind CSS
Radix UI – Pre-built

Backend:

Node.js
Express.js
TypeScript
JWT (JSON Web Tokens)

Database:

Prisma ORM
Relational Database (PostgreSQL)

Project Workflow:

1. When a student feels unwell during college hours, the student first checks the doctor availability status through the system.

2. The student then registers his request which is sent to the CA ***[A 15 minute Timer is started within which the CA is expected to acknowledge the request],*** also to the HC receptionist indicating that a student has made a request to come to the HC. The student then reports to the Health Center for medical evaluation. ***[A Timer is started for 10 minutes within which the student must get to the HC; Failure will be reported].***

3. When the kid gets to the HC, the Receptionist completes the request made by the kid: ***[Timer is Stopped, and CA gets a notification that the student is currently in the HC]***

4. The doctor examines the student and records the medical decision in the system:

5. Student is **advised rest** and asked to **return to class**, or Student is approved to **leave the campus**.

6. If the student is approved to leave, the system automatically forwards the request to the Class Advisor (CA) for review.

7. After the CA’s approval, the request is sent to the Head of Department (HOD) for final authorization.

8. Once approved by the HOD, the system generates a digital exit authorization for the student.

9. The student presents the exit authorization at the institute gate, where security personnel verify the permission digitally.

1. All visits details, approvals, and exit records are stored securely in the database.

2. At the end of each day, a **printable** formatted draft of the day’s patient log is generated for ease of submission and maintanance of **Medical Ledger**.