

Title: Smart Hostel Management System

Team Name: Team Unstop

Content:

- **Problem:** Manual hostel operations cause inefficiencies, food waste, and communication gaps.
- **Goal:** Build a smart, scalable digital hostel platform for students and administrators.
- **Solution:** Web app with daily meal tracking, notice board, student registration & admin dashboard.

Features (*highlight keywords*):

Student Dashboard:




- OTP or password based login system.
- Student will vote for next day's meal.
- See the current notice board.
- Make complain for any issue.

Admin Dashboard:




- Manage student database and meal confirmations.
- Publish important hostel notices(PDF document supported).
- View student directory, filter by room, and track presence status.

Impact, Innovation & Why Us?

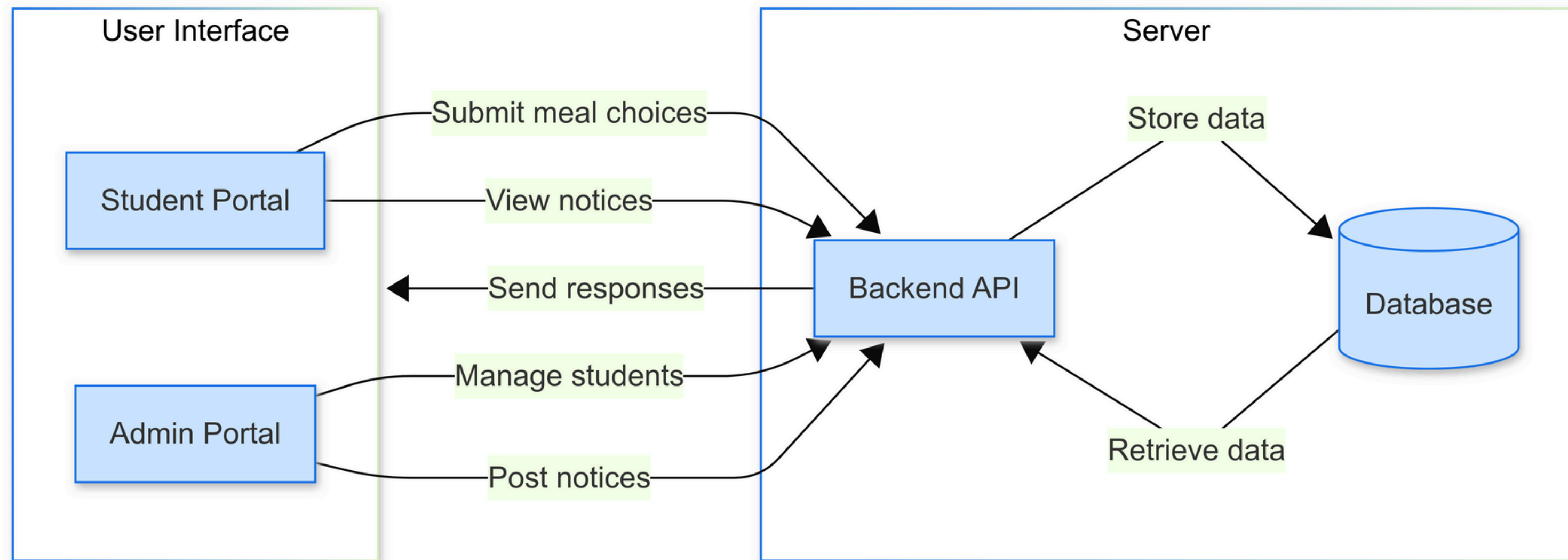
Impact:

-  Reduces daily mess wastage
-  Streamlines communication & attendance
-  Offers a real-time, scalable digital solution

Innovation:

-  Automated 9PM cutoff
-  Mobile-first, PWA-ready interface
-  Future-ready: Complaints, Leave Tracking

Architecture/Block diagram (in brief):



Future Goals

Leave & Attendance Management System

- Enable students to submit leave requests digitally
- Admins can approve/reject and mark presence status automatically
- Integrate QR-based check-in for hostel entry/exit

Advanced Analytics Dashboard for Admins

- Visual reports on mess attendance trends, food wastage, peak/no-show days
- Exportable reports (CSV, PDF)
- Forecast meals needed using basic ML (bonus research feature)

Smart Notifications & Reminders

AI Assistant

Software used:

Frontend

NEXT.js

 tailwindcss



Database

 mongoDB®

Backend

node

Express JS

 python™

matplotlib

Thank You