

# **AIT CAMPUS MANAGEMENT SYSTEM**

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# PROBLEM STATEMENT

## The Campus Reality at AIT

### Current Situation

- Academic notices, timetables, events, maintenance & grievances run on disconnected systems
- Mix of manual processes, multiple platforms, and informal channels

### Resulting Challenges

- Students miss updates; no single source of truth
- Faculty manage attendance, notes & records across tools
- Admin faces delays in grievances, maintenance & coordination
- Event organizers struggle with conflicts, engagement & feedback
- Campus data exists in silos, limiting analytics & decisions

### Core Gap

- No centralized, role-aware, real-time, secure campus system
- Existing tools don't reflect how a modern campus functions

*“AIT needs one intelligent system, not many scattered tools.”*

# PROPOSED SOLUTION

## What We're Building

- A unified, web-based, role-driven platform
- Connects Students, Teachers, Admins & Organizers
- Acts as a single source of truth for the entire campus

## Design Philosophy

- Centralized but role-aware
- Real-time, reliable & secure
- Scalable for future campus growth
- Built as a production-grade system, not a demo

## Core Idea

- One platform for:
- Academics
- Administration
- Events
- Operations

*“Not a portal – an operating system for the campus.”*

# ROLE MODULES & SYSTEM INTELLIGENCE

## Admin (Control Layer)

- Global notices & announcements
- Faculty/staff & infrastructure management
- Maintenance & grievance tracking with status
- Feedback analytics & system-wide access control
- Teacher (Academic Layer)
- Attendance & academic records
- Notes, PPTs, assignments & tests
- Class announcements & availability
- Mentoring & counsellor integration

## Student (Interaction Layer)

- Personalized timetable & room allocation
- Notes, assignments & attendance tracking
- Academic + event notifications
- Faculty availability & doubt sessions

## Organizer (Event Layer)

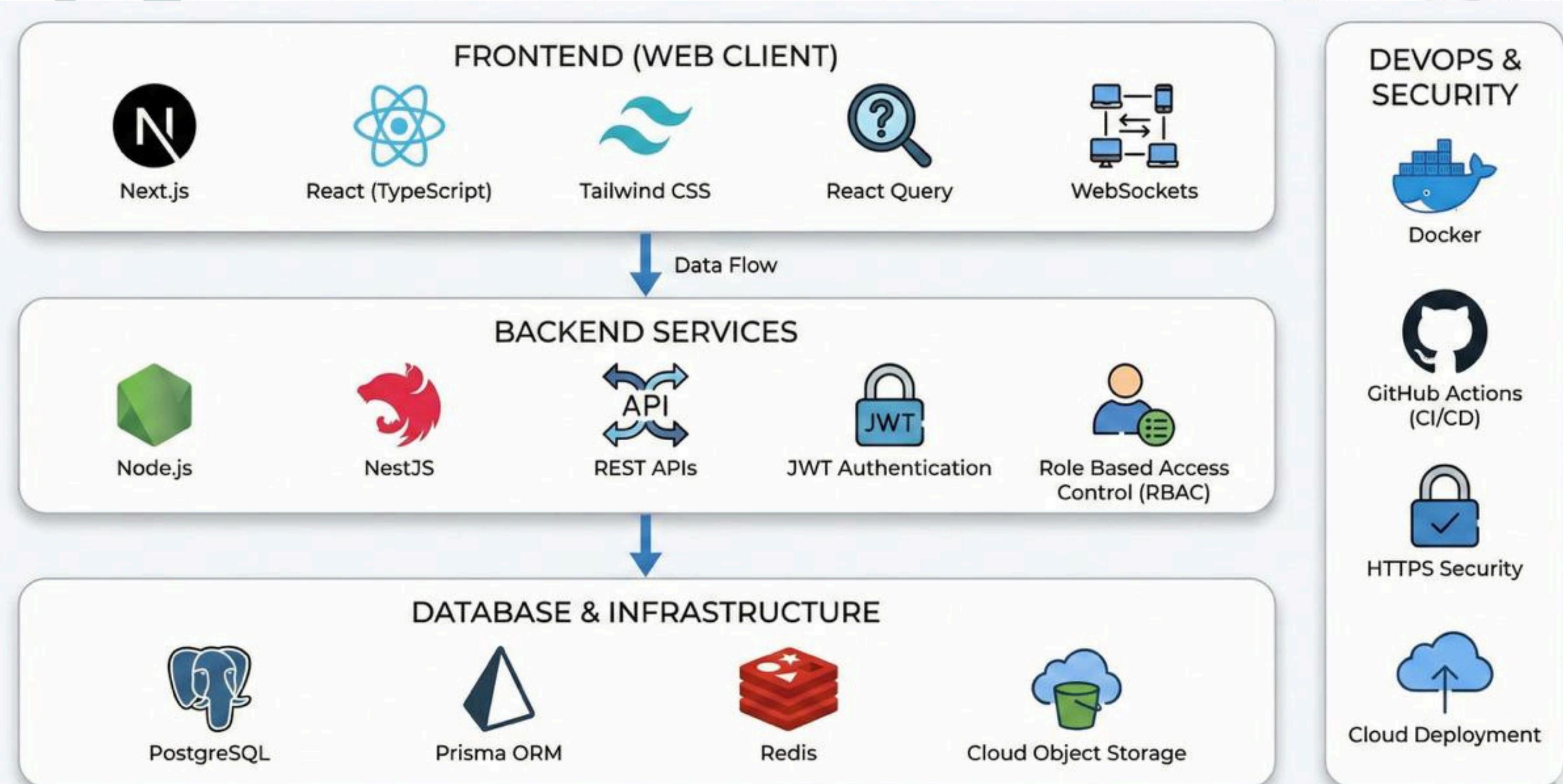
- Event scheduling & conflict detection
- Resource & room allocation
- Participation, feedback & post-event analytics

## System Intelligence (What Makes It Smart)

- Unified notification engine
- Automated conflict detection
- Status-based workflows (maintenance & grievances)
- Role-aware dashboards
- Analytics & AI-ready structured data

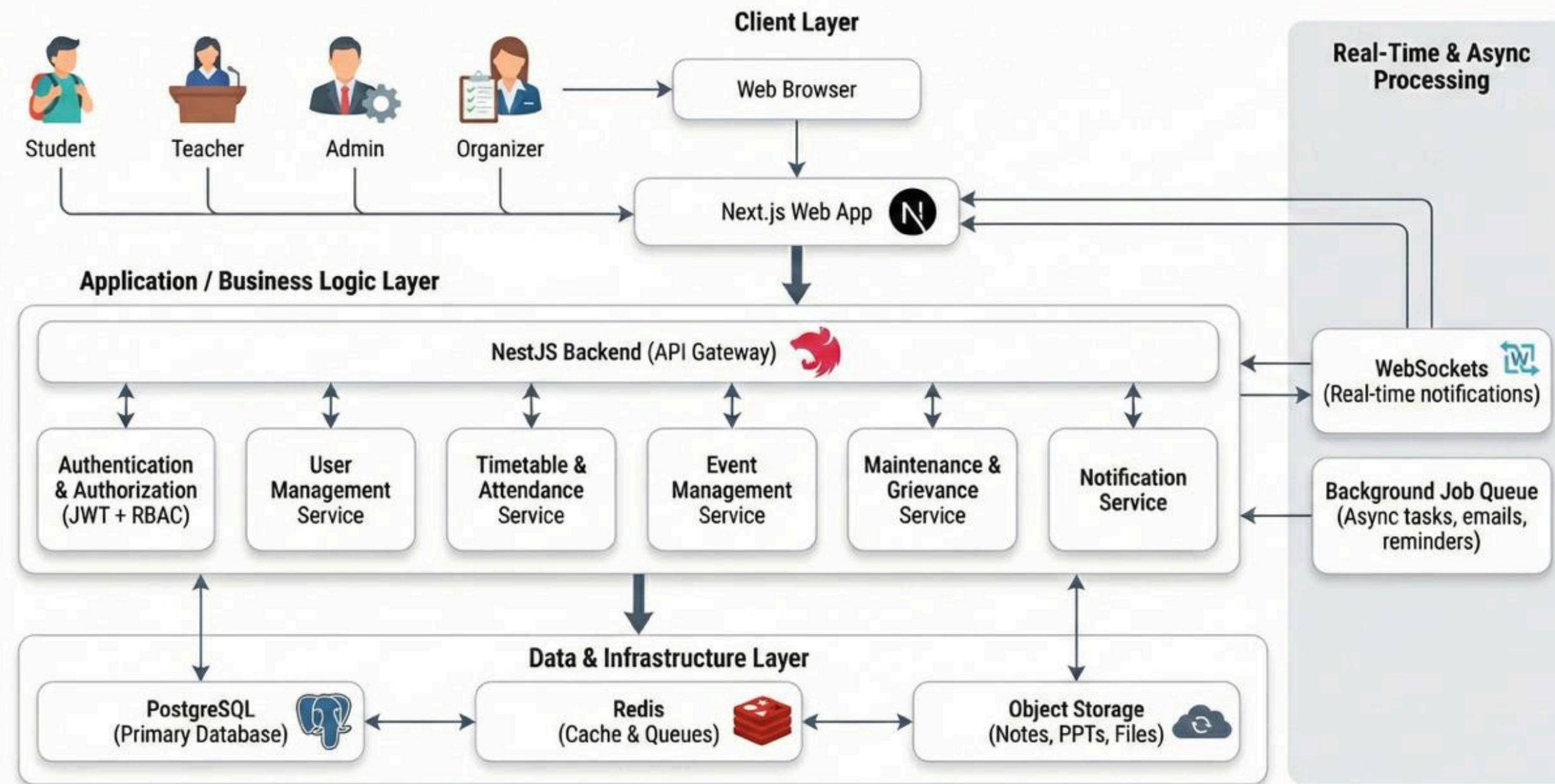
*"From chaos to coordination. From data to decisions."*

# TECH STACK

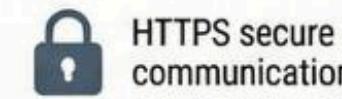


# SYSTEM ARCHITECTURE

UI Reference Link: [Click Here](#)



## Security & Infrastructure Notes



HTTPS secure communication



Role-based access control



Stateless backend design



Cloud deployment ready

# IMPACT

## Students

- One unified academic dashboard
- Real-time timetables, assignments & notices
- Easy access to notes, books & study material
- Transparent attendance & faculty availability
- Structured doubt sessions & notifications

## Administration

- Structured grievance & maintenance workflows
- Real-time request tracking & dashboards
- Centralized data with role-based access

## Faculty

- Centralized student & academic records
- One-click attendance & material uploads
- Clear class-wise & subject-wise insights
- Reduced administrative workload

## Long-Term Vision

- Scalable: Hostel, library, alumni, placements
- Intelligent: AI analytics, predictions & insights
- Replicable: Colleges, universities & institutions

## Event Organizers

- Conflict-aware event scheduling
- Attendance & engagement tracking
- Built-in feedback & post-event analytics

*“Not a demo – digital campus infrastructure.”*

**“THANK YOU”**