



Google Developer Group
On Campus

TechSprint



Leveraging the power of AI



Team Details

- Team name: Team Catalyst
- Team leader name: Divy Mevada
- Problem Statement: Open Innovation

Brief about your solution and problem statement addressing

University campuses face challenges in managing and responding to on-ground issues due to scattered communication channels.

Students report problems through WhatsApp messages, emails, handwritten complaints, or Google Forms, leading to:

1. Delayed response and poor tracking
2. No centralized record system
3. Lost or ignored complaints
4. Students unsure whom to contact
5. Lack of transparency on issue status

This results in real campus problems going unreported or unresolved—especially in hostels, classrooms, labs, and common areas.

We are building a **centralized digital platform** where students can report campus issues in real time and administrators can manage, review, and resolve them efficiently.

1. A centralized platform for students to report campus issues in real time.
2. Interactive campus map to pinpoint exact problem locations.
3. Image upload support for visual proof of issues.
4. Role-based login for students and authorized staff.
5. Real-time issue status updates: **Pending** → **In Progress** → **Resolved**.
6. Admin dashboard for reviewing, prioritizing, and closing reports with full transparency.

Opportunities

How Different Is It From Existing Ideas

1. Purpose-built for universities, not general public or government complaints
2. Custom campus map with block-level pinpointing for accurate location reporting
3. Routes issues directly to authorized internal staff, no third-party delays
4. Transparent status tracking and feedback loop for students
5. Focuses on **micro-level campus problems** like hostels, labs, classrooms, WiFi, cleanliness, etc.
6. Role-based access and data privacy ensures only relevant staff see relevant issues
7. Scalable system that can expand campus-to-campus, enabling a pan-university network

How It Will Solve the Problem

1. Centralizes all issue reporting into a single accessible platform
2. Provides visual evidence and exact location for faster response
3. Automates prioritization and progress tracking to reduce delays
4. Eliminates **confusion about whom to contact by directing issues to the right person**
5. Builds accountability and transparency, improving trust between students and administration
6. Analytics and report insights help management identify recurring issues and prevent future problems

List of features offered by the solution



1. CENTRALIZED REPORTING:

All issues in one place.

Solving Campus Issues, Together



2. INTERACTIVE CAMPUS MAP:

Select exact location for precise reporting

Navigate. Locate. Resolve.



3. IMAGE UPLOAD:

Proof & clarity

"See it, snap it, solve it."



STUDENT LOGIN



STAFF LOGIN

4. ROLE-BASED LOGIN:

Students & Staff

"Empowering Every Campus Voice."



5. STATUS TRACKING



6. ADMIN DASHBOARD:

Manage, assign, and close reports.

CIVIC FLOW: NOTIFICATIONS & TRANSPARENCY



ANALYTICS & TREND INSIGHTS



Google Technologies used in the solution

1. Firebase Authentication – Secure login for students & staff



2. Firebase Firestore / Realtime Database – Store reports & status updates



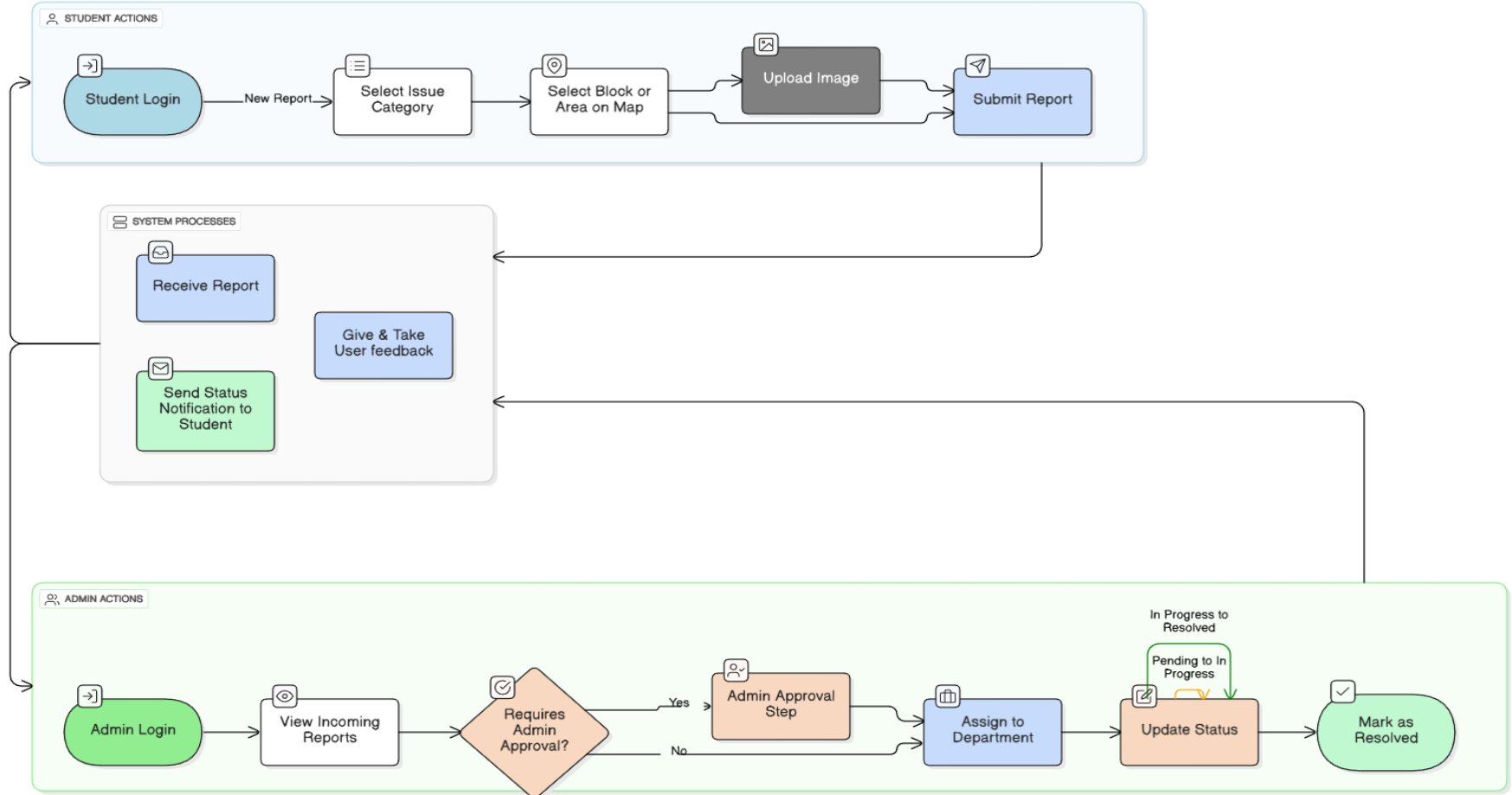
3. Firebase Cloud Messaging (FCM) – Push notifications & alerts




Other Technologies



Process flow diagram or Use-case diagram





Wireframe diagram





Welcome Back


Sign in to your Nirma University account





 **Nirma University Email**

 username@nirmauni.ac.in




 **Password**





[Forgot password?](#)



Secure Campus Access

42
Total Users


24/7
Support


99%
Uptime

Don't have an account? [Create Nirma University account](#)


Restricted to verified @nirmauni.ac.in email addresses only


Report New Issue


 **Issue Title**

 **Category**


Water




 **Campus Block**

 **Floor**


A Block





e.g., Ground Floor, 2nd Floor

 **Room / Location**


e.g., Room 201, Cafeteria

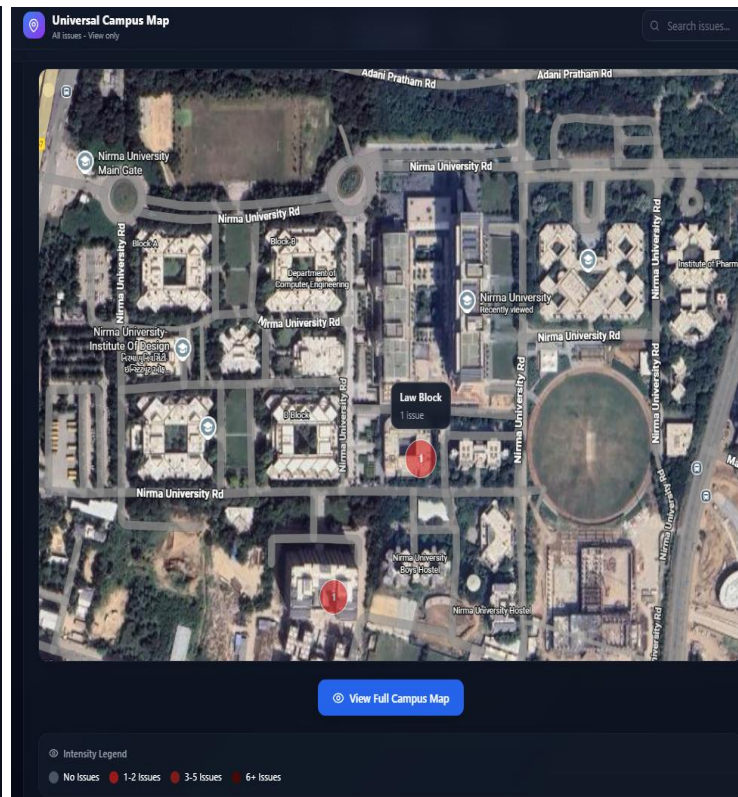
 **Upload Image (Optional)**

 No file chosen

 **Detailed Description**

Provide detailed description of the issue...

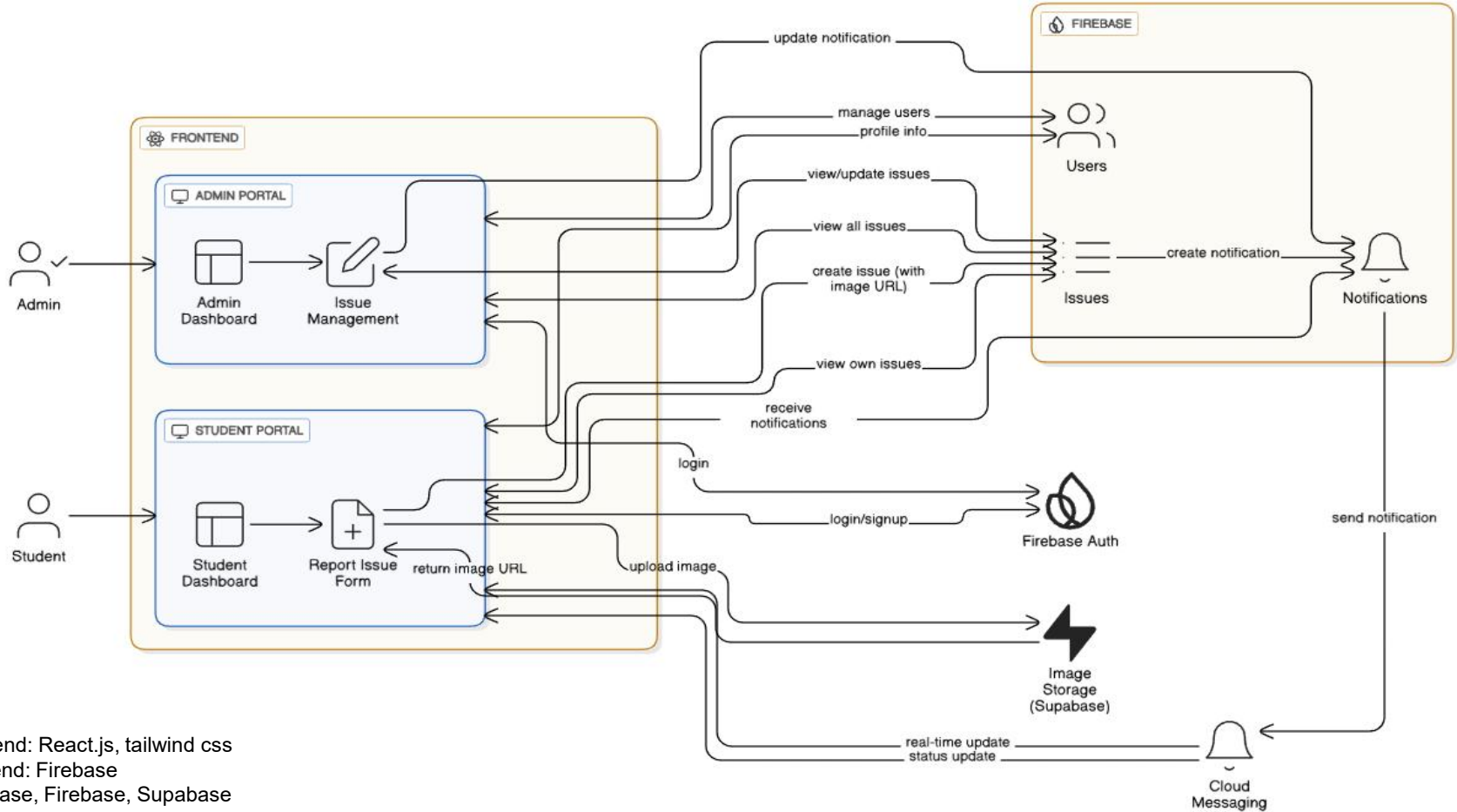




Admin: 24bce288@nirmauni.ac.in
pass: 123456

Student: 24bce282@nirmauni.ac.in
pass: Divy1234

Architecture diagram of the proposed solution



Frontend: React.js, tailwind css
Backend: Firebase
Database, Firebase, Supabase

Additional Details/Future Development

1. **Multi-Campus Support:** Separate dashboards and access for multiple universities.
2. **City-Wide Adoption:** Expand to community centers, residential complexes, and city campuses.
3. **AI Features:** Smart categorization, priority prediction, and analytics for issue hotspots.
4. **IoT Integration:** Connect sensors and CCTV for real-time detection of issue.
5. **Mobile App:** Instant reporting, push notifications, and QR-code submissions.
6. **Engagement & Transparency:** Track resolutions, gamification for reporting, and open API for integrations.

Provide links to your:

1. GitHub Public Repository : <https://github.com/tirth1356/CivicFlow>
2. Demo Video Link (3 Minutes) : <https://youtu.be/wmmmlOTqy0A?si=3-iHsGx0V4v6ygb2>
3. MVP Link : <https://civic-flow067.vercel.app/>

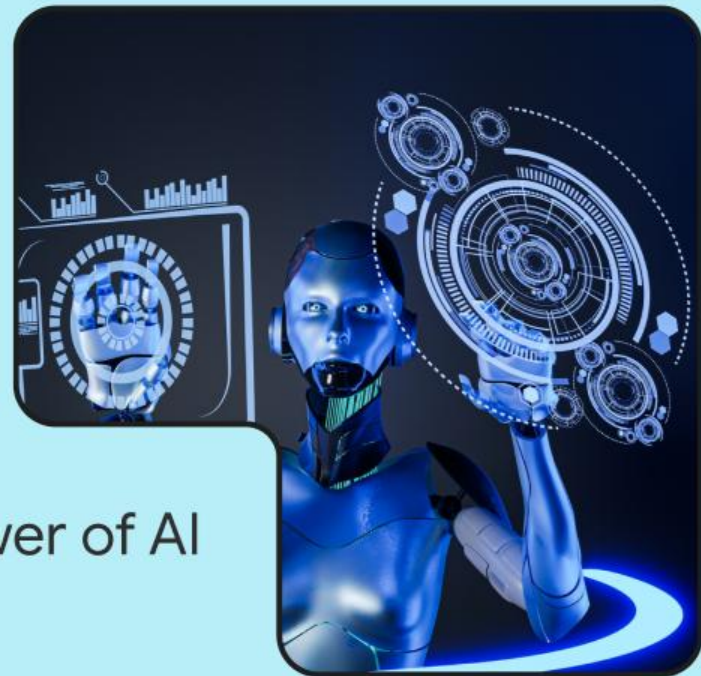


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Thank you!

