Google Summer of Code Proposal - 2025

Basic Details

- **Full Name**: Meet Sohani
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- **GitHub Username**: meet-159

- **First Language**: Hindi
- **Second Language**: English

- **Location and Timezone**:India, GMT+5:30

- **Previous Open Source Contributions**:

    - [PR to Open-Source-UoM/MyUoM](#)
    - [Github Profile](#)

Your Motivation

- **Why GSoC?**
  Google Summer of Code is an ideal opportunity for me to contribute meaningfully to open source software while improving my technical and collaboration skills. The mentorship and experience in working on a real-world impactful project excite me.

- **Why Sugar Labs / GFOSS?**
  GFOSS aligns strongly with my values of promoting open, accessible, and modular software, especially in the education and public service sector. The MyUni project addresses a genuine need and has the potential to impact thousands of students.

- **Why this Project?**
  I was drawn to the MyUni project because it combines my skill set (React, Express, MySQL, TypeScript) with my interest in education tech. Building a

scalable, customizable university platform is both a challenging and meaningful task, and I want to be part of shaping that future.

- **Expectations from the Program**
  I expect to gain deep technical and collaborative experience under the guidance of mentors and the community. Post-GSoC, I aim to continue contributing to MyUni and help onboard future contributors.

Project Details

What are you making?

A scalable, modular university platform derived from the current MyUoM app, featuring:

- A fully customizable front-end

- Real-time data integration from official sources

- A robust backend (Node.js + MySQL)

- An extensible CMS

- Student portal and admin panel

- TypeScript refactor and multi-domain support

Impact on GFOSS / Open Technologies Alliance

This project will set a precedent for modular, open-source university platforms in Greece and beyond. It can serve as a national framework adopted by multiple institutions, promoting collaboration, data accessibility, and digital innovation within the academic ecosystem.

Technologies to be Used

- **Frontend**: React.js, TypeScript, TailwindCSS

- **Backend**: Express.js, Node.js, MySQL

- **Optional**: Next.js

- **DevOps**: Docker

- **Other**: Git, REST APIs, Axios

Timeline

Community Bonding (May 20 – June 16)

- Study MyUoM codebase

- Engage with the community & mentors

- Draft initial "Analysis and Design" document

- Create user stories, EPICs, and a high-level backlog

Phase 1 (June 17 – July 15)

Goal: CMS Setup + Backend Scaffolding + Student Portal API

- Week 1: Setup monorepo & project architecture; setup DB schema (students, announcements)

- Week 2: Build REST API for student records and dynamic announcements

- Week 3: Create custom CMS backend dashboard with user auth

- Week 4: Frontend: Student portal (basic), CMS frontend integration

Deliverables before 1st evaluation

- CMS backend & APIs for announcements and students

- Functional Student portal (view data)

- Admin auth & dashboard basics

- Updated Analysis and Design document

Phase 2 (July 16 – August 12)

Goal: Admin Panel + Real-Time Data Integration + Personalization

- Week 5: Admin panel to define homepage tiles and dynamic sections

- Week 6: Real-time scraping/fetching module for announcements/schedules

- Week 7: Personalizable homepage (tile-based interface for each university)

- Week 8: CMS-enhanced homepage + content delivery improvements

Deliverables before 2nd evaluation

- Fully functional Admin Panel

- Real-time data integration backend

- Customizable homepage with CMS support

Phase 3 (August 13 – September 9)

Goal: TypeScript Rewrite + Multi-Domain Support + Finalization

- Week 9: Migrate core modules to TypeScript (backend & frontend)

- Week 10: Build multi-domain system: separate configs & DB per university instance

- Week 11: Dockerization + deployment guides

- Week 12: Final tests, documentation & polish

Final Deliverables

- Final "Analysis and Design" document

- Production-ready codebase (TypeScript)

- Docker image

- Documentation for deployment & scaling

- Live demo (if possible)

Post-GSoC Plans

Yes, I plan to continue contributing to MyUni after the GSoC period — especially to support adoption in new universities, fix bugs, and help new contributors onboard.

Weekly Commitment

- **Estimated Time per Week**: 18–25 hours

- **Off-the-grid Period**: None planned

Convincing GFOSS (Motivation)

I believe I am a good fit for this project because:

- I have experience building full-stack apps with React, Node, and MySQL

- I am passionate about open-source and education

- I've explored the [MyUoM repo](#) and am already drafting improvements and ideas (e.g., modular component system for homepage tiles, streamlined admin role-based system)
- I am passionate to learn new skills like DOCKER.

I am confident that the result will benefit GFOSS and the broader university ecosystem by delivering a production-ready, easy-to-deploy platform for academic institutions.