Final Project Proposal – MyUni Hub

Project Title:

MyUni Hub – A Centralized and Organized Digital Platform for University Students

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Team Leader:

Abd El-Rahman Amr Lotfy Mohamed

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1. Project Description:

MyUni Hub is a comprehensive university web platform designed to replace the chaos of social media groups by providing a secure, verified, and organized environment for students.
It serves as the **main digital hub** for information, communication, and academic resources combining everything students need in one unified system.

Key Features include:

- **Verified Academic Identity:** Login restricted to official university emails only.

- **Academic Hub:** Course materials, lecture notes, past exams, and official announcements.

- **Smart Community:** Structured Q&A forum with verified student responders.

- **Daily Coordination Hub:** Practical student discussions and coordination.

- **Student Toolkit:** Unified calendar for deadlines, exams, and events.

- **Live Crowd Meter:** Real-time crowd status in study areas (library, cafeteria, etc.).

- **Opportunity Board:** Internships, workshops, and job postings for students.

- **Lost & Found:** A reliable section for posting lost or found items.

- **Intelligent Dashboard:** Personalized home view for each student.

2. Group Members & Roles :

Member Name	Role	Main Responsibilities
Abd El-Rahman Amr Lotfy Mohamed	Full Stack Developer	Handles Authentication & Authorization, manages student accounts, and integrates all core modules of the system.
Ahmed Hossam Abdelaziz Abdelhamid	Full Stack Developer	Develops Academic Hub module (courses, materials, exams) and implements responsive UI across the platform.
Ali Essam Aly Abdelazeem	Full Stack Developer	Builds Smart Community module (Q&A Forum), manages discussion threads and access for verified responders.
Yousry Yasser Elsayed Bahbah	Full Stack Developer	Works on Opportunity Board and Lost & Found modules, and manages database design, queries, and optimization.
Amr Khaled Fares Mohamedien	Full Stack Developer	Implements Coordination Hub and Notification system, and ensures testing, debugging, and system reliability.

❖ All team members collaboratively contributed to both **frontend** and **backend** layers, database design, and system integration.

3. Objectives:

- Provide a unified digital system for academic and student life.
- Replace unstructured communication channels with an organized verified hub.
- Enable secure access to resources and information via academic email login.
- Improve collaboration, academic support, and community engagement.
- Introduce innovative features like real-time crowd tracking and opportunity sharing.

4. Modules Structure:

Module Name	Description / Main Functions
Authentication & Authorization Module	Register/login with academic email, role-based access control, session management.
Dashboard Module	Personalized dashboard showing latest announcements, reminders, and updates per student.
Academic Hub Module	Manage courses, upload/download materials, view past exams, and rate notes.
Smart Community Module	Organized Q&A forum; verified responders answer academic questions.
Coordination Hub Module	Quick practical student discussions (e.g., documents, daily inquiries).
Student Toolkit Module	Unified interactive calendar for deadlines, exams, and payments.
Live Crowd Meter Module	Real-time status updates of study areas using simple toggle system.
Opportunity Board Module	Lists internships, workshops, and graduate job opportunities.
Lost & Found Module	Post, browse, and recover lost university items.
Notification Module	Sends real-time in-app notifications about updates and announcements.
Admin Module	Admin panel to manage users, content, and verify posts.

5. Tools & Technologies:

- **Backend:** ASP.NET MVC (C#), Entity Framework Core, LINQ

- **Frontend:** HTML5, CSS3, JS, Bootstrap, jQuery

- **Database:** Microsoft SQL Server

- **Version Control:** Git & GitHub

- **IDE:** Visual Studio 2022

- **Testing & API Tools:** Postman, Manual Testing

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6. Milestones & Deadlines (1-Month Schedule)

Week	Milestone	Expected Deliverables
Week 1	Requirements analysis + database & UI wireframe design	ERD, page structure, initial layouts
Week 2	Authentication + Dashboard setup	Login module + student dashboard prototype
Week 3	Core modules (Community, Academic Hub, Toolkit)	Working modules + partial views integration
Week 4	Final testing + documentation + presentation	Full system testing report + final build

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7. Key Performance Indicators (KPIs):

KPI	Description	Target
System Functionality Completion Rate	Percentage of planned modules fully implemented and functional	≥ 95%
Code Quality & Architecture Compliance	Clean MVC architecture + reusable components + maintainability	≥ 90%
Testing & Reliability Rate	Percentage of passed test cases without critical bugs	≥ 95%
Performance & Efficiency Rate	Response time, optimized queries, and system stability	≥ 90%
Error or Defect Rate	Functional / technical issues found vs. total tests	≤ 5%

Summary:

MyUni Hub aims to revolutionize student life inside universities by creating a **single, reliable, and smart digital platform** where students can access everything from academic materials and announcements to community interactions and opportunities all within one organized, secure hub.