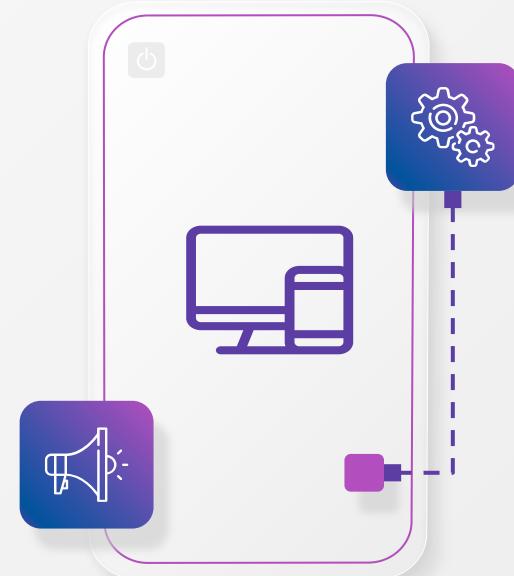




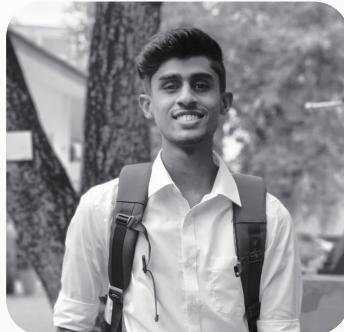
University Student Hub

Group 17 - CS





OUR TEAM



W. T. G. Fernando
21000654



C. D. Ranasinghe
21001561



V. V. Weerasinghe
21002142



R. D. K. J. Wijewardhana
21002223



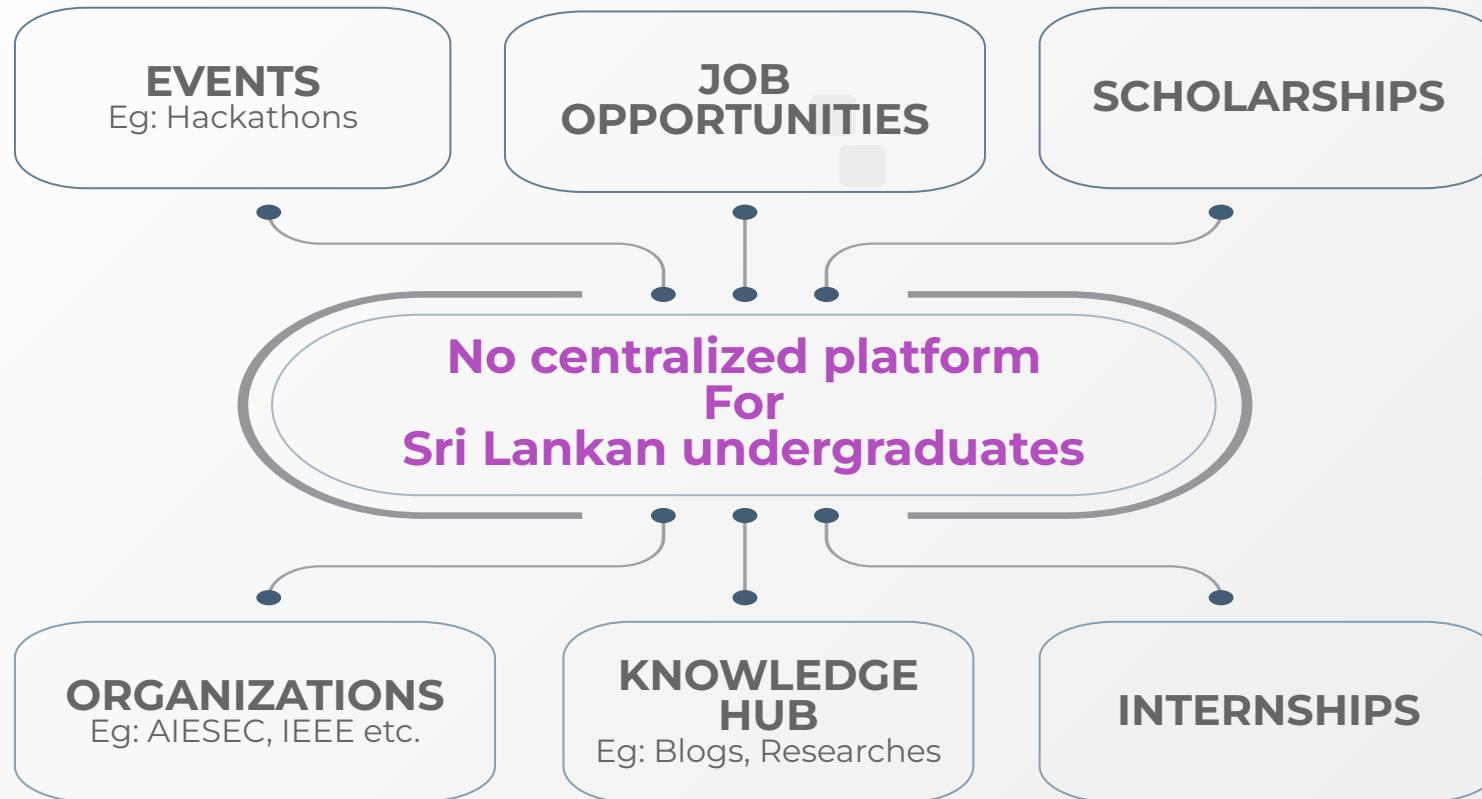
SUPERVISION



Dr. B. H. R. Pushpananda
SUPERVISOR

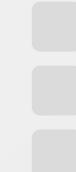


Ms. K. D. C. I. Thathsarani
CO-SUPERVISOR





▪ We have a solution for this problem





INTRODUCTION

UniHub.lk is an innovative digital platform revolutionizing Sri Lankan university life. It offers a **centralized hub for**:

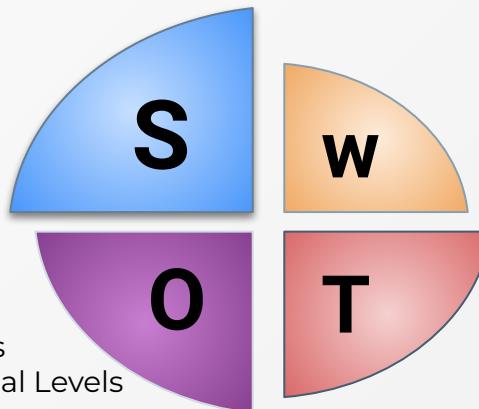
- Publishing & accessing learning materials
- Publishing & engaging with events
- Exploring new job opportunities and scholarships
- Showcasing organization bodies.



SWOT Analysis

STRENGTHS

Centralized Platform
Customizable Profiles
Simple and Easy to Use



OPPORTUNITIES

Collaboration with Universities
Expansion to Other Educational Levels

WEAKNESSES

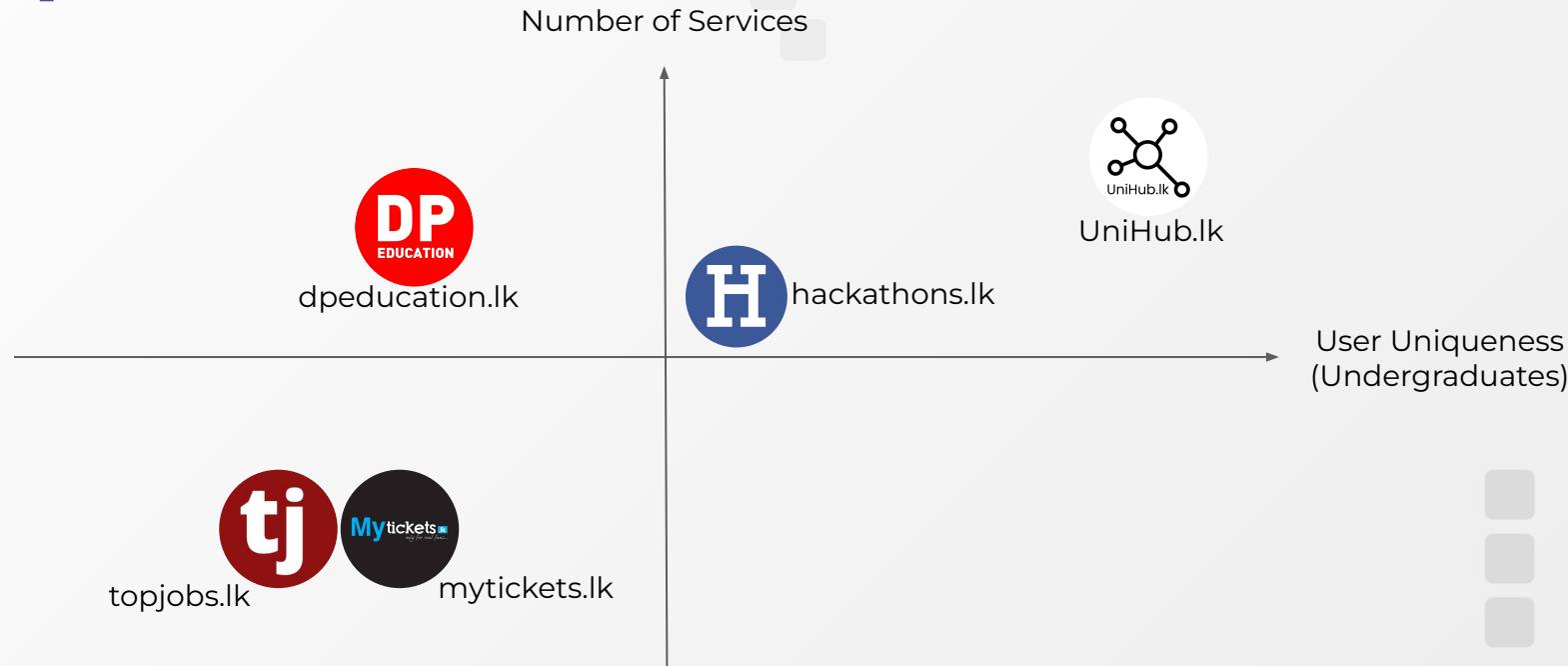
Dependency on User-Generated Content

THREATS

Lack of Resources



Competitor matrix





How?



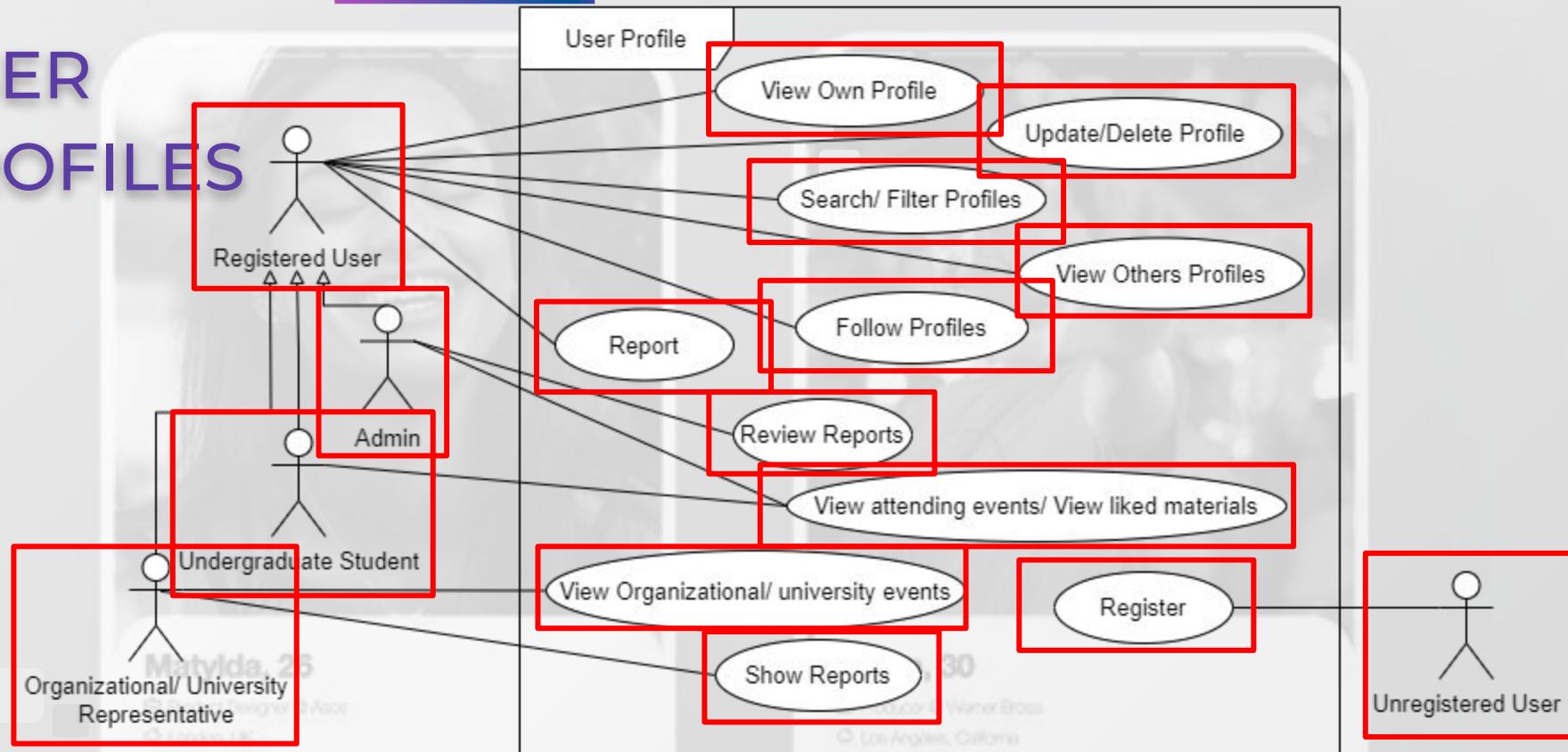
USER IDENTIFICATION

- Unregistered User
- Registered User
- Website admin
- Organizational/ University Representative

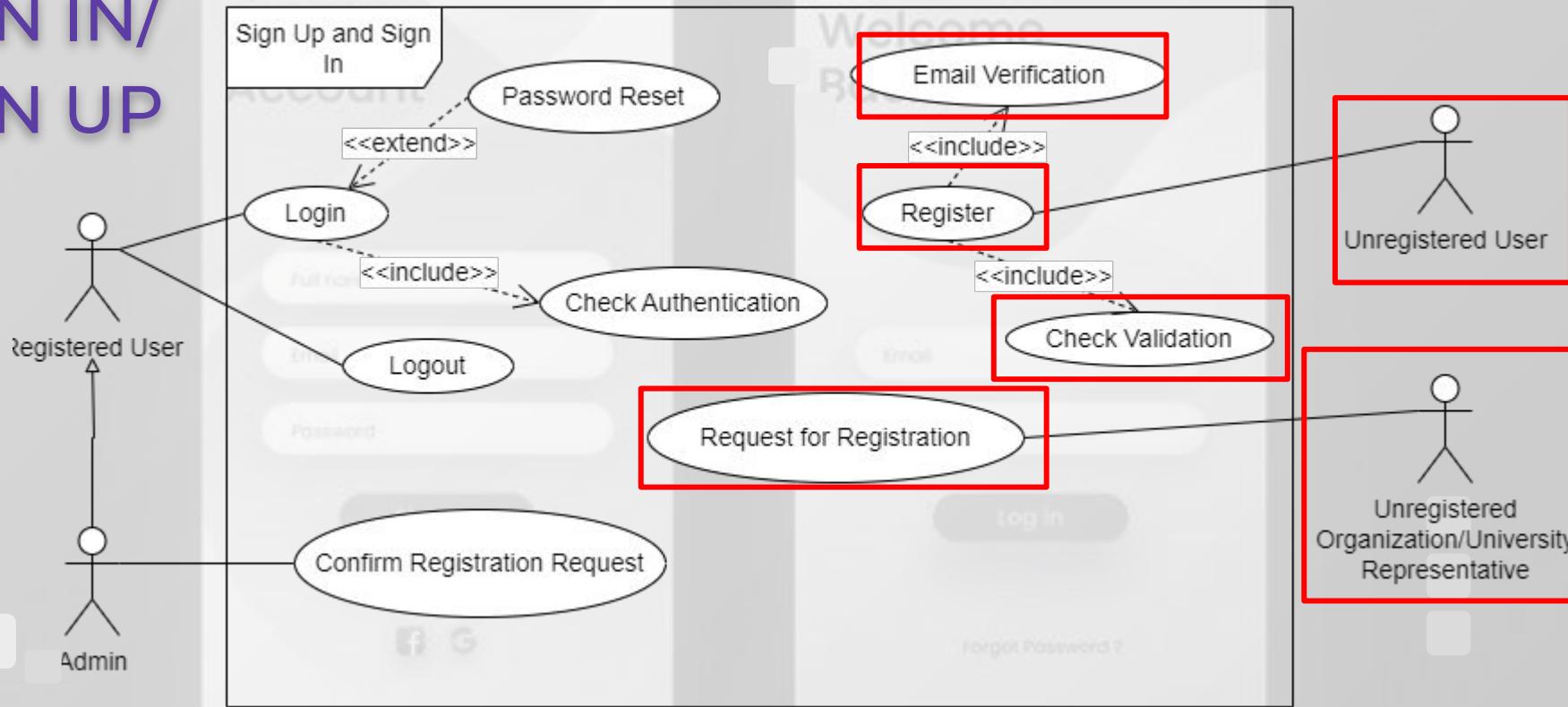




USER PROFILES

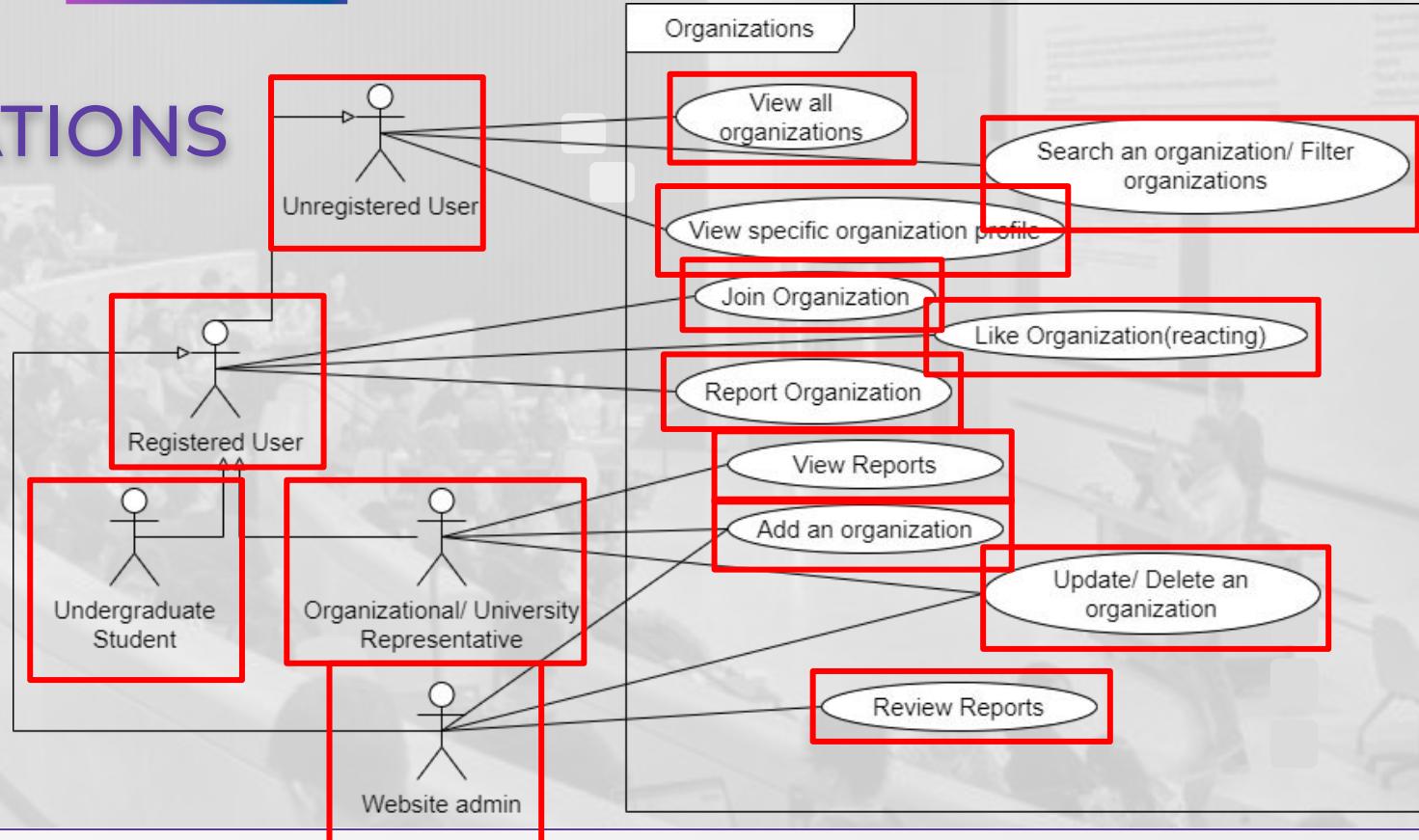


**SIGN IN/
SIGN UP**



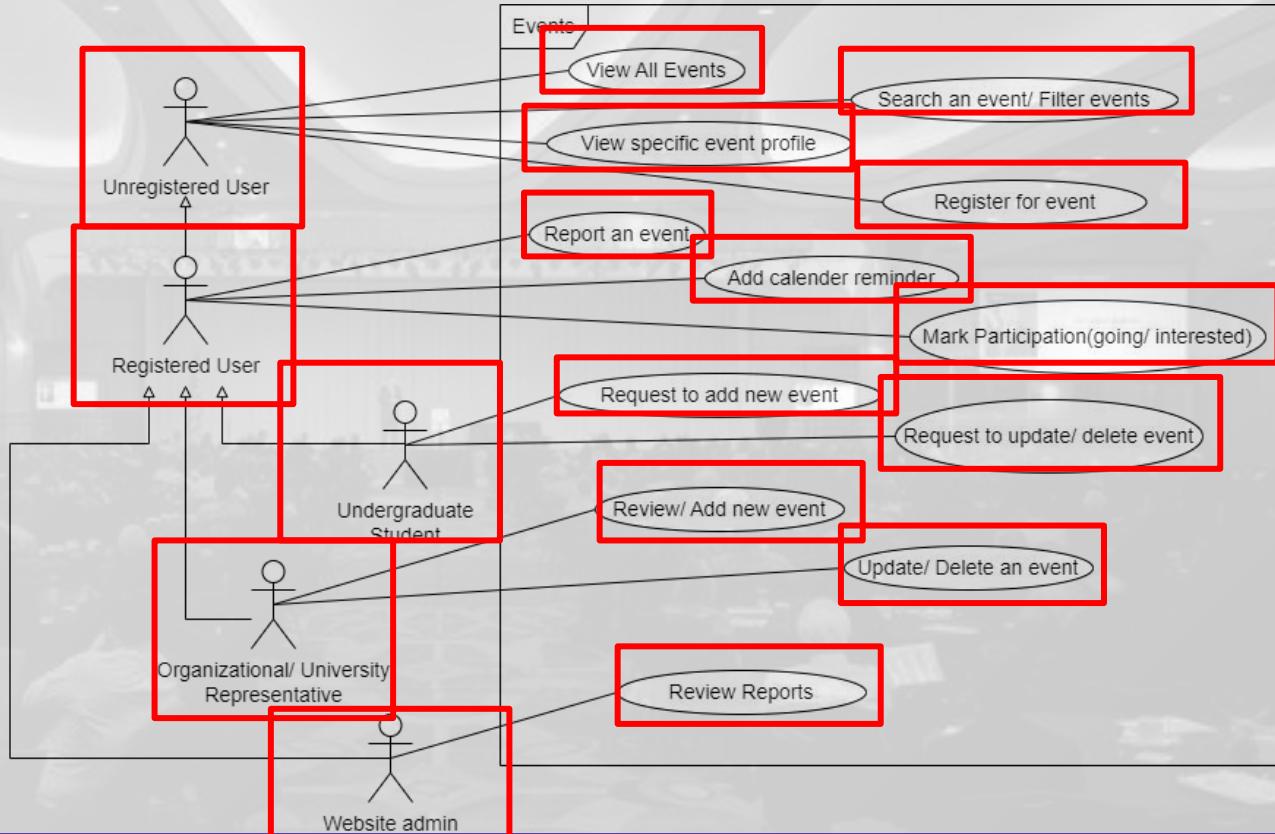


ORGANIZATIONS



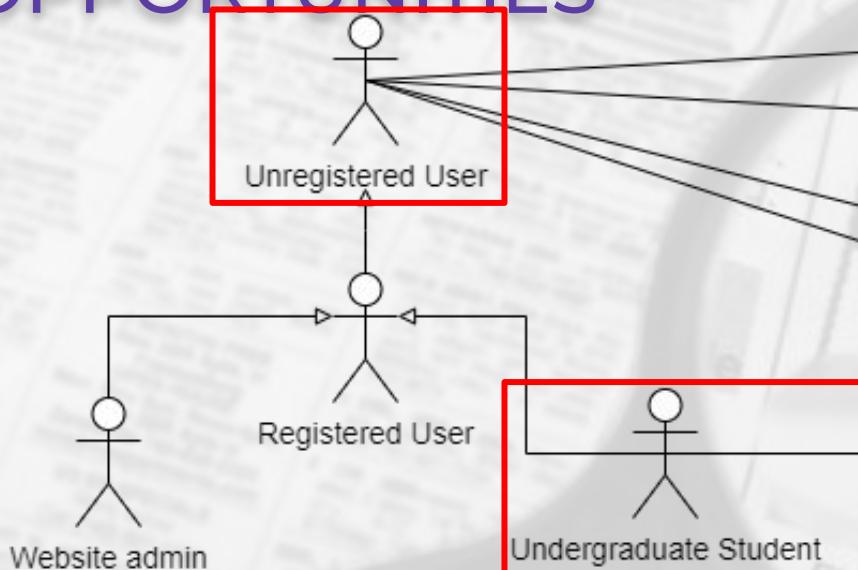


EVENTS

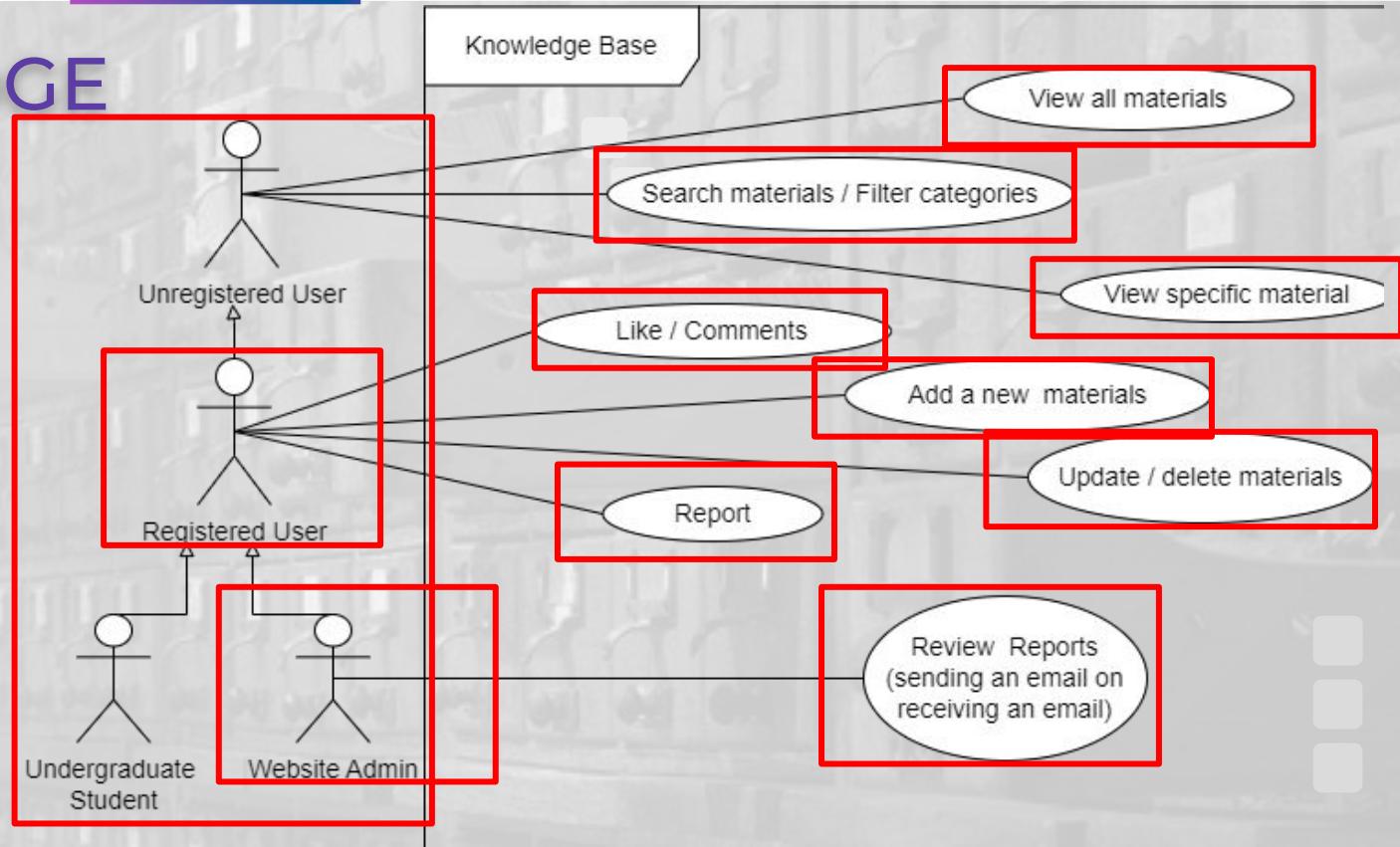




OPPORTUNITIES



KNOWLEDGE BASE

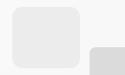




WHAT MAKES UNIHUB.LK SO SPECIAL?

UniHub.lk is the **first ever platform** to offer a comprehensive and collaborative digital ecosystem tailored specifically for Sri Lankan university students. Here are some aspects that differentiate the platform:

1. Integration
2. Sri Lankan Context
3. User Empowerment
4. Personalization





Scope





IN SCOPE

- Interactive interfaces for events, materials, organizations, opportunities and users.
- Categories and filters for easy content discovery.
- CRUD operations for six major categories.
- User-friendly options to request new events, materials, and job opportunities.
- Interactive features like calendar events, push notifications, and auto-updating event availability.



OUT OF SCOPE

- Reviewing new event requests.
- Reviewing of reports.



CONSTRAINTS

- Single Account per User.
- Registered User Requirement.
- Admin Verification for Events for Unregistered Users.
- Restrictions on Unregistered Users.

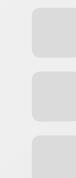
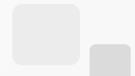


ASSUMPTIONS

- Every university student has an email provided by the university.
- The necessary APIs and services from Google will be available and accessible for the project's implementation.
- We assume that the information obtained from websites like YouTube and others is accurate and free of any copyright violations.



Feasibility





SCHEDULING FEASIBILITY

- Evaluate potential risks and uncertainties affecting the schedule.
- Plan contingencies and buffer time for unforeseen delays.

Working hours per week per member = 13 hours

Working hours for 36 weeks per member = 13 hours x 36

Total working hours by 1 members = 468 hours

Total working hours by 4 members = 468 hours x 4
= 1872 hours



OPERATIONAL FEASIBILITY

- Providing Sri Lankan undergraduates, one unique centralized digital platform for all their needs.
- Simple user interfaces with easy navigations
- Responsive design
- Only require a stable internet connection and a device to access the internet



LEGAL FEASIBILITY

- Comply with relevant laws and regulations, including data protection.
- Address potential legal risks, copyright, and data privacy concerns.
- Obtain necessary permissions for using university-related content or data.



SOCIAL FEASIBILITY

- Assess acceptance among students and stakeholders.
- Identify social impacts, positive and negative.
- Address inclusivity and accessibility concerns.



If yes, enter your university email (Optional)

45 responses

anopratheepan27@gmail.com

herathua.21@uom.lk

IT22266828@my.sliit.lk

2020e033@eng.jfn.ac.lk

2021s18893@stu.ac.lk

2021s18751@stu.cmb.ac.lk

surajmshan1234@gmail.com

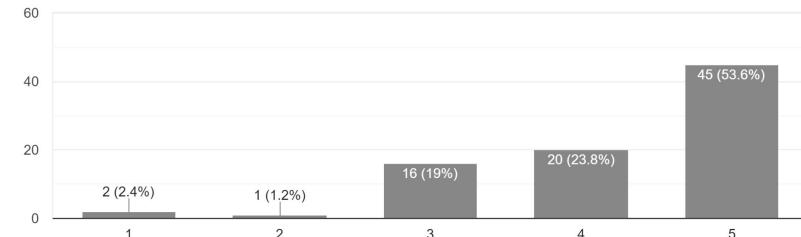
hewageuhcu.21@uom.lk

pdsdjayarathna@std.foc.sab.ac.lk



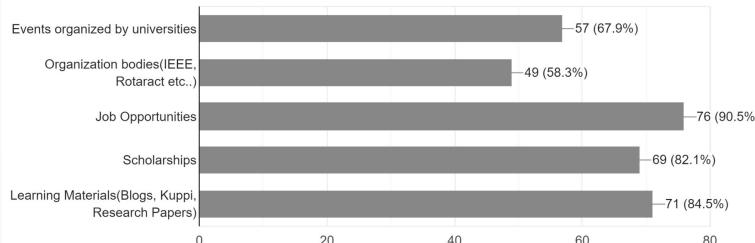
How interested are you in the concept of UniHub.lk, a centralized web platform for university students in Sri Lanka?

84 responses



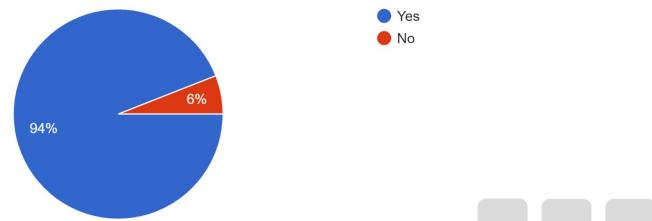
Which of the following features of UniHub.lk would be most valuable to you? (Select all that apply)

84 responses



Would you be willing to contribute to UniHub.lk by adding and updating information about events, organizations, job opportunities, scholarships, or sharing learning materials?

84 responses





TECHNICAL FEASIBILITY

- Evaluate technical capabilities for development and maintenance.
- Assess available technologies for feature implementation.
- Identify and address potential technical challenges.
- Determine hosting and maintenance feasibility.



WORK DISTRIBUTION



Events & Opportunities



Organizations



Knowledge Base



User Profiles &
Sign up/Sign in



THARINDRA

CHATHUNI

JANANGA

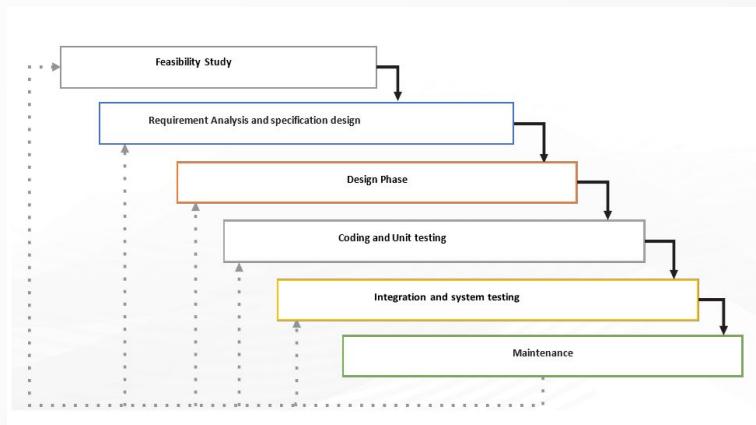
VIRULI



TIMELINE

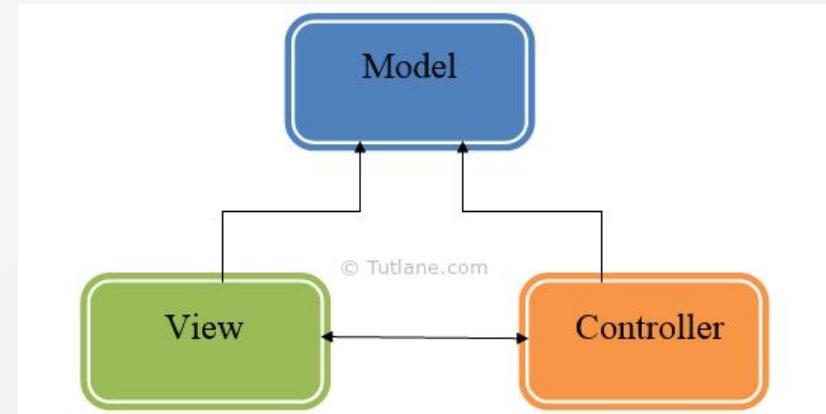


SDLC MODEL



Iterative Waterfall

ARCHITECTURAL PATTERN



MVC



Requirements



FUNCTIONAL REQUIREMENTS

- User Registration
- User Authentication
- Event Management
- Account Verification
- Material Submission
- Google Reminders Integration
- User Roles and Permissions





QUALITY ATTRIBUTES



Performance

High responsive user interface
Quick load time
No delays and downtimes



Reliability

24/7 availability & access
Robust data security & integrity measures
Regular backup



Security

Secure login with Google authentication
Verification with student email domains



Usability

Interactive & user-friendly UI
Simple & Intuitive user experience



User Support

Google Calendar integration
Google maps



Technologies





MAIN TECHNOLOGIES



Frontend - HTML, CSS, JavaScript



Backend - Java



Database - MySQL



OTHER TECHNOLOGIES



Apache Tomcat

Web server - Apache Tomcat



Version Control & Repo.
Hosting - GitHub



draw.io

Diagram and Modeling - Draw.io



Google Maps



APIs - Google Calendar API, Google Maps API, Google Sign-In, JavaMail API



OTHER TECHNOLOGIES



IDEs & Other tools - IntelliJ IDEA, Visual Studio Code, Sublime Text



Collaboration - Zoom, Google Meet



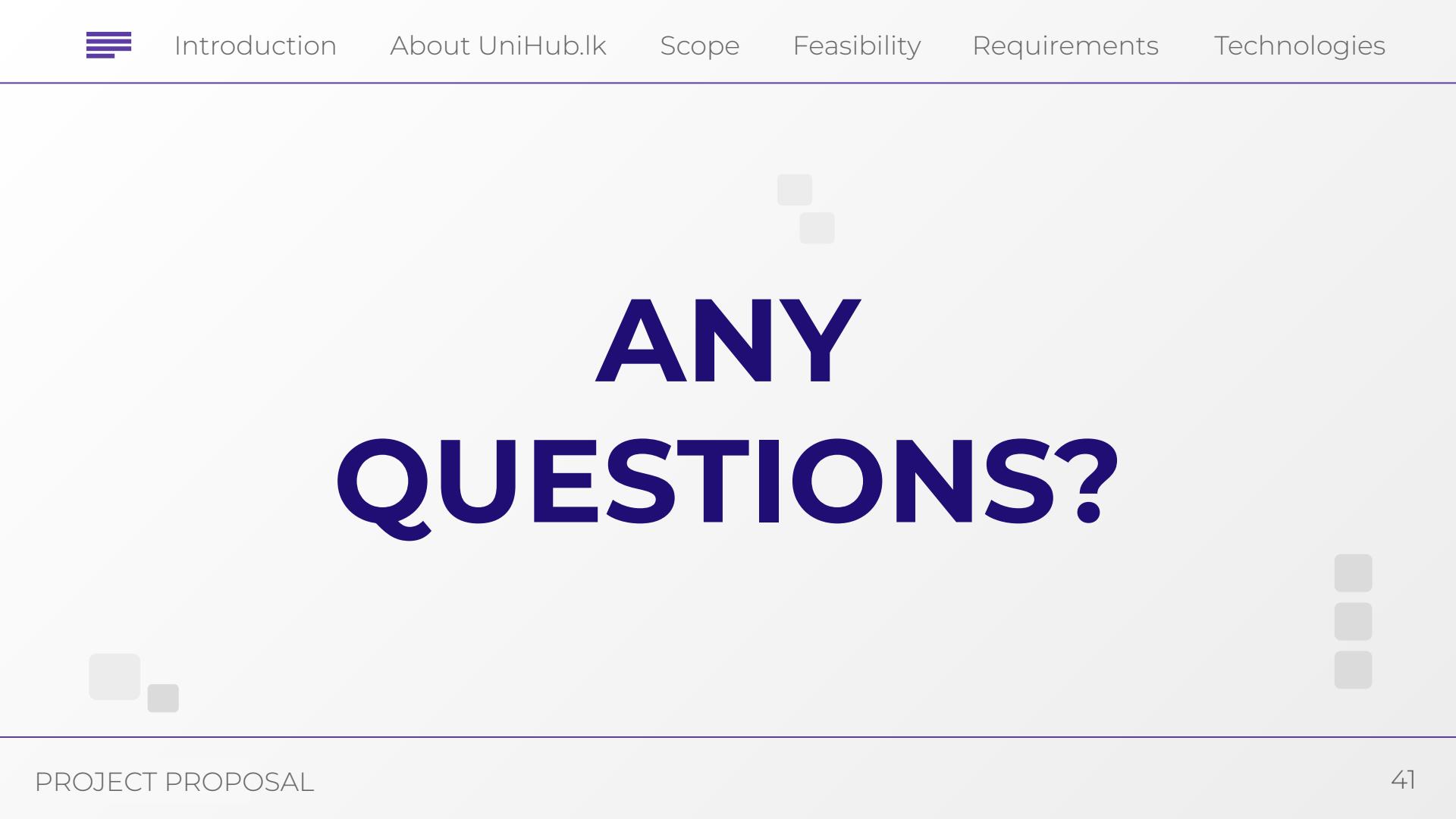
Project Management - Jira



UI/UX & Prototyping - Figma



THANK YOU



ANY QUESTIONS?