Project Title - AlmaMingle - Alumni Web Portal
Group Name - WallStreetDevs
Group Members:
Raja Lakshmi Kamalini Ponnuru
Varun Mahankali
Madi McCauley
Usama Bin Faheem
Shashank Verma
Suhaibuddin Ahmed
Rahman Mehmood
Andre Sharp

Project Description:

Our team has decided to create an alumni portal that will allow alumni to sign up and create their profiles.The main purpose of this platform will be for the alumni of a particular university to stay connected with each other and interact with alumni of other batches.We are aiming to keep this platform simple and easy to use.

The Alumni Portal will have a user signup for creating their accounts, this will also allow them to log in to their accounts to update their details which can include current job, education and other details based on their preference. All the users have the option to make posts which can include text, images and videos. They will be able to view blogs posted by other alumni and interact with these posts as well. The portal consists of a home page that will show the latest posts made by the users. It will have an easy-to-use navigation bar with various options such as the dashboard, groups and an option to find other members and join groups.

The dashboard will have the main functionality that users will use to post and we plan on allowing the users to attach video links or images in their posts as media.

Furthermore, the web app will have a notifications button and a messages section that will allow users to view the latest happenings and postings by other group members or the University.

The Alumni Portal will be developed using the below technology stack.

Front-End: React JS, HTML/ CSS

Back-End: Node JS

Deployment Tool: Heroku / Netlify

Management Tools: Trello, Teams, GitHub, Canva, MS word and PPT

This application will be implemented based on microservice architecture . As we move forward, we will finalize concrete user stories for our application.

<u>**Project Timeline**</u>

Week1: Intro to the class, Formed teams
Week2: Team Meeting and Introduced Ourselves Finalized the ideas
Week3: Planning everything we want to do: Feb 5 Deliverable 1
Week4: System Structure | Requirements Specifications | Development Phase Plan
Week5: Development Phase Plan
Week6: Summing up previous week things and preparing a document Feb 26: Deliverable 2
Week7: Code Development
Week8: Spring Break
Week9: Mar 18: Deliverable 3 (50%)
Week10: Code Enhancement & Improvements
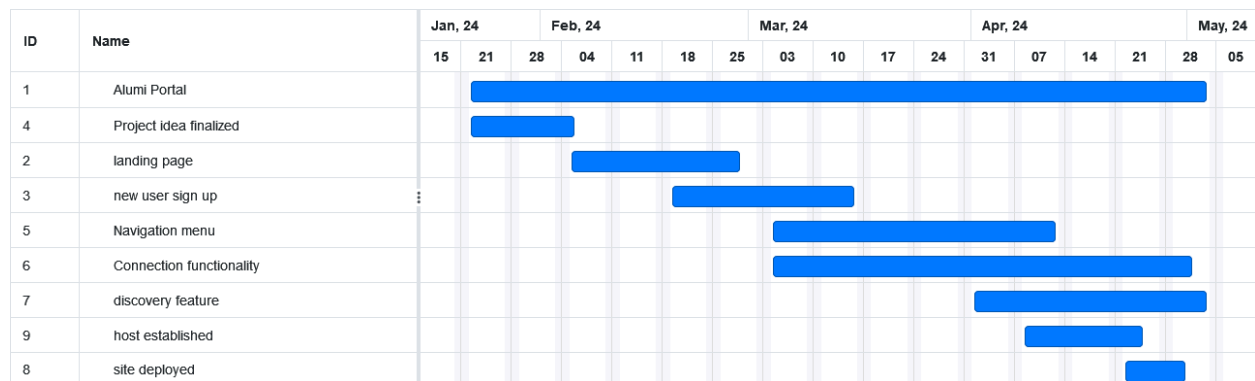Week11: Code Finalizing Phase | Code Freeze
Week12: Apr 8 Deliverable 4 (90%)
Week13: Testing & Deployment Phase
Week14: (98 %) Final Check - Code Fixes | Bug Fixes
Week15: Apr 29 Deliverable 5 (100%) Website is ready to launch

Simultaneously, we should submit Peer Evaluation for each Deliverable we have done… (The next day)

Gnatt chart for planning phases of project

ID	Name	Jan, 24			Feb, 24				Mar, 24				Apr, 24				May, 24
		15	21	28	04	11	18	25	03	10	17	24	31	07	14	21	28	05
1	Alumi Portal																	
4	Project idea finalized																	
2	landing page																	
3	new user sign up																	
5	Navigation menu																	
6	Connection functionality																	
7	discovery feature																	
9	host established																	
8	site deployed																	

Risk management

Risk 1: Technical Complexity
Monitoring:

- Regular code reviews: Implement a process of regular code reviews to ensure adherence to best practices and identify any technical issues early.
- Use automated testing: Implement comprehensive unit testing and integration testing to catch potential technical issues before they become critical.

Reevaluation:

- Regularly assess code complexity: Periodically review the complexity of your codebase to identify any increasing trends or potential bottlenecks.

Contingency:

- Plan for additional development time: If technical challenges arise, build in extra time into your development schedule to address unexpected complexities.
- Seek expert consultation: Identify and establish relationships with experienced developers or consultants who can provide guidance and assistance if needed.

Risk 2: Scalability Issues
Monitoring:

- Regular performance testing: Conduct regular performance tests to identify potential scalability issues as the application grows.
- Monitor server resources: Implement monitoring tools to keep track of server resources and respond proactively to any signs of strain.

Reevaluation:

- Periodic load testing: Perform load testing periodically to simulate increased user loads and identify any scalability concerns.

Contingency:

- Implement caching mechanisms: Employ caching strategies to alleviate server loads and enhance the overall scalability.
- Utilize a Content Delivery Network (CDN): Distribute content geographically to reduce server load and improve response times.

Risk 3: Security Vulnerabilities
Monitoring:

- Regular security audits: Conduct regular security audits to identify and address potential vulnerabilities.
- Monitor dependencies: Keep track of updates and security patches for all dependencies used in the project.

Reevaluation:

- Stay informed on security trends: Stay updated on the latest security threats and vulnerabilities, and reassess your security measures accordingly.

Contingency:

- Rapid response plan: Develop a plan for quick response and resolution in case of a security breach.
- Regularly update dependencies: Keep all dependencies up-to-date to benefit from security patches and improvements.

Team roles:
Project Management Lead: Kamalini
Requirements Lead: Usama
Design Lead (Connectivity b/w all the ends): [UML]: Rahman & Varun
Implementation Lead for Back end: Varun & Madi
Implementation Lead for Front end(UI/UX): Shashank
Implementation Lead for Deployment: Andre & Kamalini
Testing Lead: Rahman & Madi
Documentation Lead: Andre
Demo & Presentation Lead: Usama
Configuration Lead (GitHub): Suhaib

9. Member contribution table (should describe who wrote what parts of the report).
Add more rows as needed.

Member Name	Contribution Description	Overall Contribution(%)	Notes (if applicable)
Andre Sharp	Gnatt chart, Risk management, formatting	12.5%	
Kamalini Ponnuru	Organized, Structured and allocated the roles for the team and prepared PPT. Helped in the documentation task.	12.5%	
Madi McCauley	Background research on applications that will be used in front and back end , project description , topic final decision, PPT presentation	12.5%	
Varun Mahankali	Research on technologies that will be used for the development of project, deciding on project timeline	12.5%	
Rahman Mehmood	Helped in identifying the suitable technologies and tools. Identifying the project milestones for the project timeline. Helped in the discussion of the roles for each team member. Prepared Minutes of Meeting.	12.5%	

Suhaibuddin Ahmed	Helped in project topic, features and role discussions,helped in project description, setting up - organizing the structure of the github repository, preparing readme file	12.5%	
Usama Bin Faheem	Project description, timeline and milestones,team roles delegation, technology stack research & finalization .	12.5%	
Shashank Verma	I helped in Project description, Identify the suitable technology for the project.	12.5%	

NOTE: Submit one document (e.g., Deliverable-1.docx) that contains 1, 2, 6, 7, 8, and 9. All other items (3, 4, and 5) should be placed in your project repository (GitHub). Document formats: Your documents may be in any of the following formats (1) MS Word (2) Adobe Acrobat (pdf). If you plan to use other formats, please discuss this with the instructor to confirm compatibility.