InternHub

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PROBLEM

Getting an internship is vital for computer science students to develop their skills and be well prepared for the workforce. Our project idea is to leverage our knowledge of AWS to create a job board catered to computer science students, where they will be able to easily to find internships.

CURRENT SYSTEM

At the onset of this software engineering project, no hardware, software, or network components have been established. The main goal is to generate a valuable idea and gradually build the necessary components. Subsequently, the aim is to integrate the idea and its components into Amazon's cloud computing platform AWS. The ultimate objective is to demonstrate how AWS can effectively implement software development projects while prioritizing key benefits such as scalability, security, and flexibility.
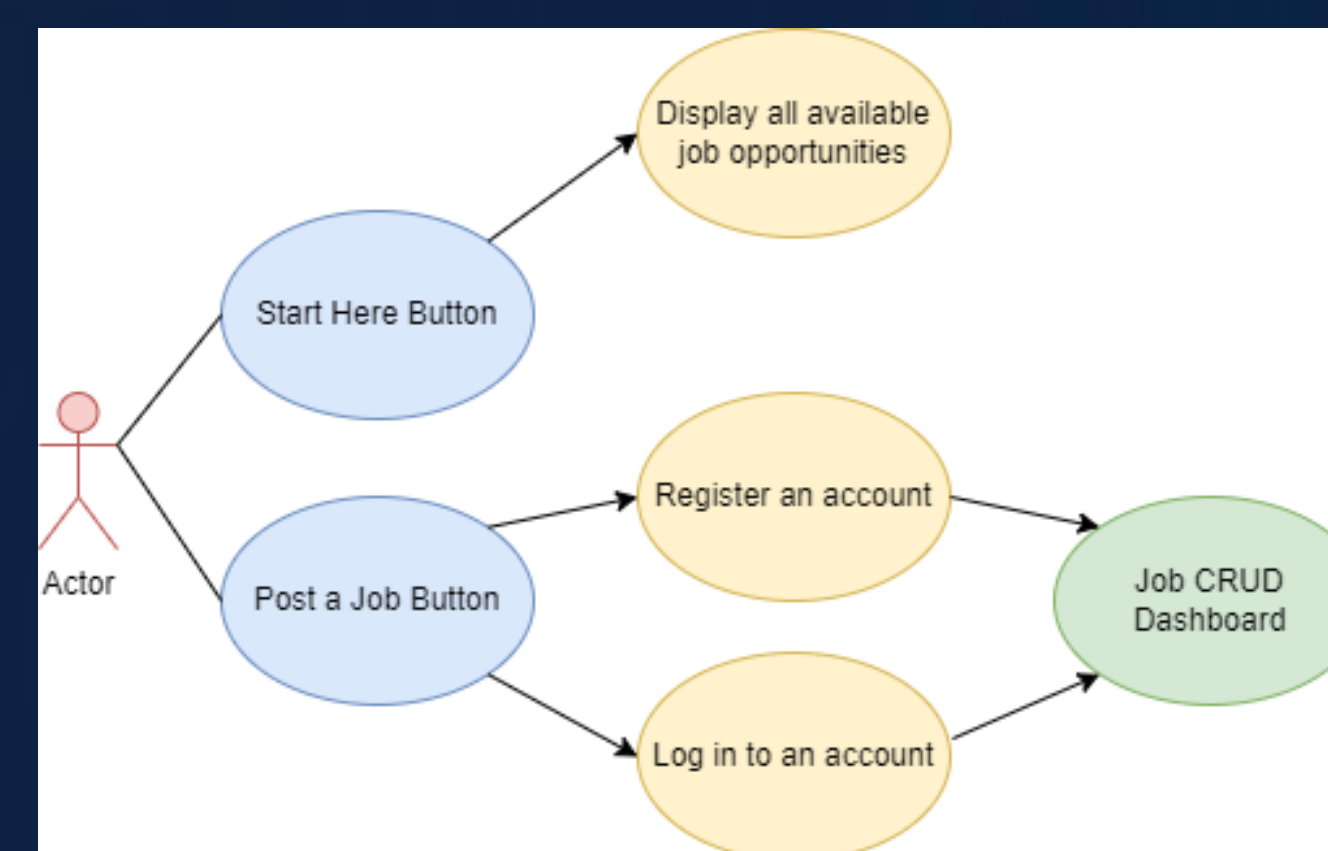
REQUIREMENTS

Requirement Type	Requirement Description
Functional	Welcome page buttons such as start here button and post a job button are visible and clickable.
Functional	Clicking the start here button takes the user to page where all job opportunities are displayed.
Functional	Clicking the post a job button takes the user to the page where they can register or log in and then be directed to job posting dashboard.
Non-Functional	Website is scalable with automatic provisioning dependent on user demand.
Non-Functional	Website is cost effective, resource payment is only initiated for the correlating demand.
Non-Functional	Performance capabilities such as website loading time is satisfactory and will scale with demand.

SYSTEM DESIGN

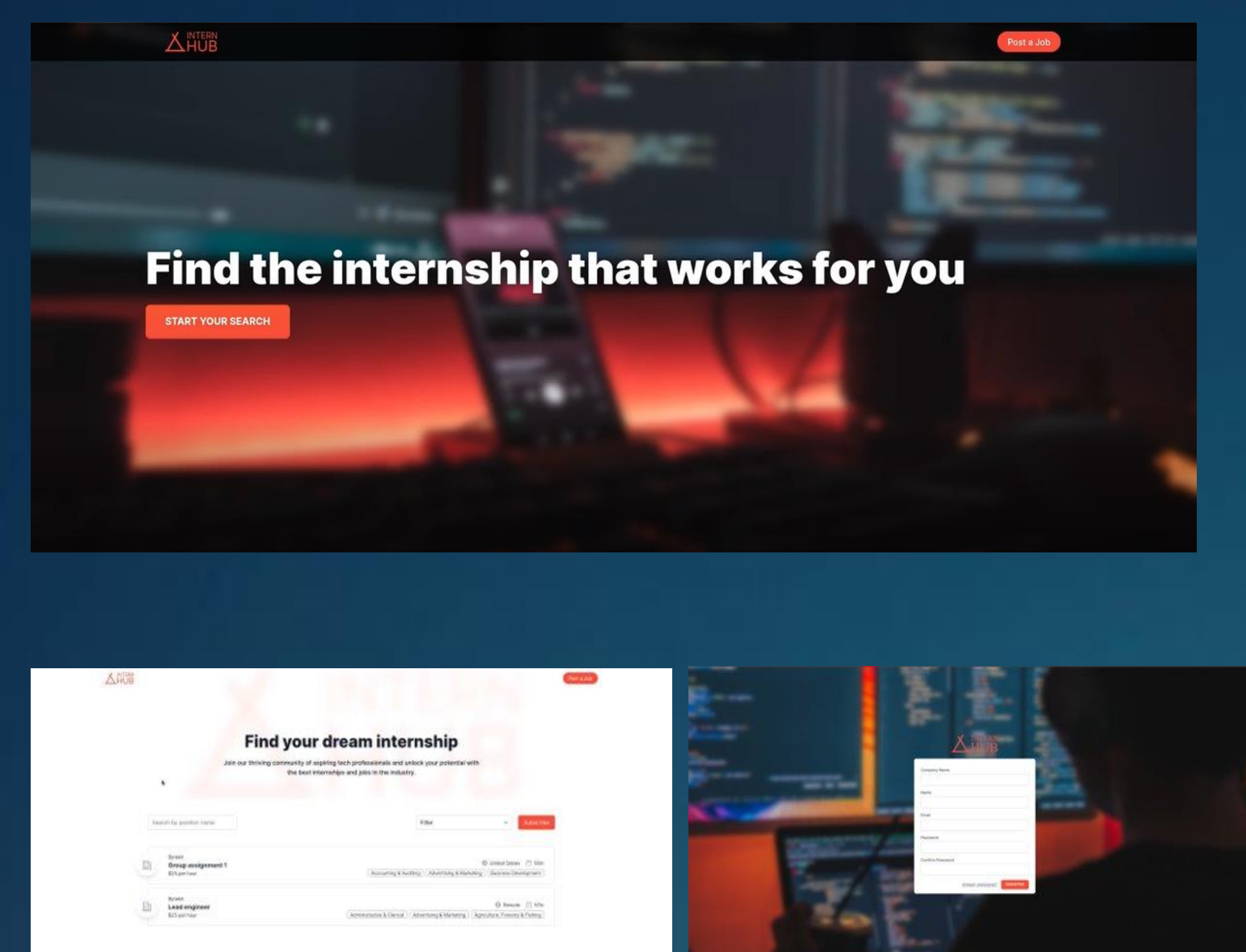

OBJECT DESIGN

IMPLEMENTATION

VERIFICATION

Test Case Scenario	Test Case Steps	Test Case Requirements	Test Case Status
Registration Functionality	1. Visit website. 2. Visit registration page on nav bar. 3. Enter info and register.	When a valid username and password is entered, registration attempt is successful.	Pass
Login Functionality	1. Visit website. 2. Visit login page from nav bar. 3. Enter info and login.	When a valid username and password is entered, login attempt is successful.	Pass
Organization Dashboard Functionality	1. Login 2. Create, delete, and update job opportunities.	When opportunities are created, deleted, or updated the user is able to see newly populated job.	Pass
Welcome Page	1. Visit website. 2. Test start here button on welcome page.	When user visits website, welcome page is populated and button takes user to public jobs page.	Pass
Public Job Opportunities Page	1. Visit website. 2. Navigate to Public opportunities page. 3. Test search and filter functionality.	When a user arrives to job opportunities page, search bar and filter work as intended.	Pass
Daily Digest Scheduler	1. From user email. 2. Check for subscribed emails.	Messages from subscribed opportunities are received as intended.	Pass
AWS Hosting	1. Visit website from AWS hosting point.	Website works as intended and all AWS resources are provisioned as needed.	Pass

SUMMARY

The project requirements for this semester included two significant objectives. The first objective was focused on development, requiring the creation of an internship job board. The second objective focused on integration, requiring the integration of the job board into a variety of Amazon Web Services.
A viable minimum product has been successfully implemented to meet both objectives. Some of my personal contributions include but are not limited to welcome page development and software documentation.

REFERENCES

ATTENTION: Subheadings shown above is a recommended structure for a research/scientific poster. Main elements of a poster are Introduction, Research and Conclusion. Researchers can customize the section headers based on their projects' needs. REMOVE THIS TEXT ONCE YOU START WORKING ON YOUR POSTER