Florida International University
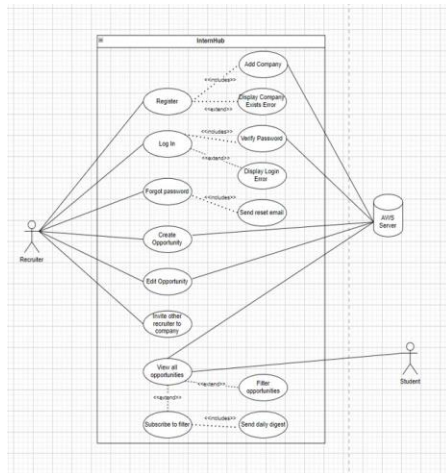
Spring 2023 Senior Design Project

InternHub

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Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University

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 and apply for internships.

CURRENT SYSTEM

The current state of the program allows users to create an account and search for internship opportunities that were posted by recruiters. The opportunities themselves, when added, must be associated with categories that classify what kind of field they are focusing on. This allow end users to filter for certain positions they are looking for as well as subscribe to categories to receive email notifications when an opportunity within that category is posted.

REQUIREMENTS

The goal for this program was to create a website that streamlines searching for internships. Tasks were split up accordingly with mine being to handle the email side of the website. My tasks was to conduct research on creating automated email notifications using AWS Lambda, AWS IAM roles, and AWS SES SMTP. Afterwards incorporate the information gathered into the website

OBJECT DESIGN

SCREENSHOTS

SYSTEM DESIGN

VERIFICATION

Before finalizing changes, we had multiple group members test and review the features. We collaborated frequently and very often discussed changes before pushing them into master branch. After development concluded we uploaded the project onto an EC2 instance. We tested the program after the upload to ensure everything was functioning properly.
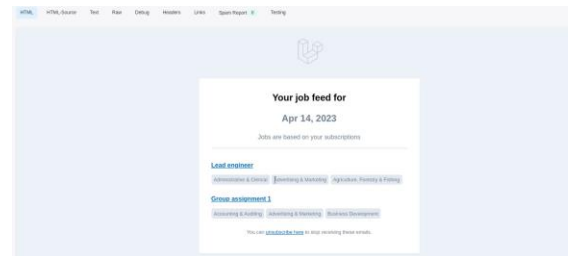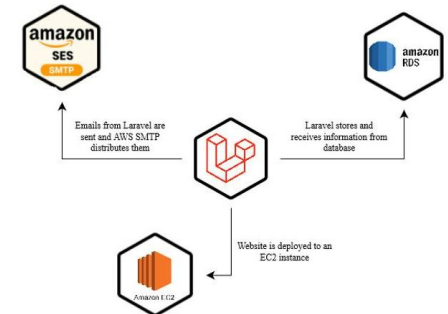
SUMMARY

In conclusion, we were able to create an email notification system that allowed users to subscribe to certain categories and receive updates when new opportunities were posted. Altogether, this website offers students a way to search for internship opportunities by being informed through our informative notification system.

IMPLEMENTATION

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