Job Rangers

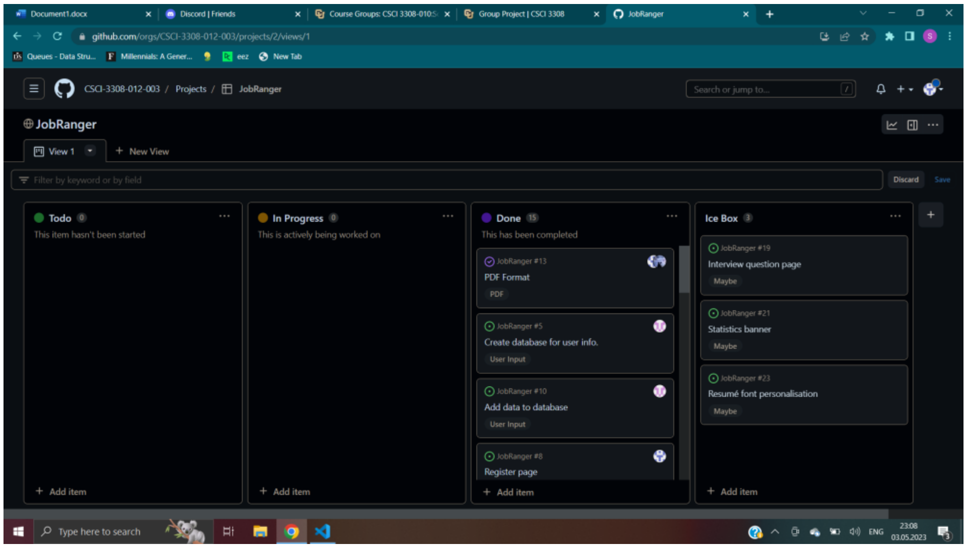
Team members: Sam Adams, Max Eaton, Sang Shim, Gerardo Ferrigno, Prajwal Nepal, Grant Hargrave

Description

Our goal was to create an application that matches people with employment opportunities based on their skills and to take the stress out of resume creation. After a user creates an account, they can quickly and easily enter all their credentials into the proper fields on the info page; education, work history, skill set, languages, as well as their GitHub and LinkedIn accounts. Any information entered can be deleted or edited at any time. Then with the click of a single button, our site will generate an aesthetic resume for the user without the effort of doing so oneself. This resume can be instantly converted into a PDF and printed or downloaded at the user's convenience. The user can then go to the discovery page and find job opportunities that match their skills and qualifications. Applying for a job is as simple as clicking the link provided, which takes the user directly to the webpage to submit their beautiful new resume. With this application we hope to simplify the process of seeking a job and alleviate our users of much of the stress and effort of what can be a truly stressful and effort intensive process.

Project Board

Link: https://github.com/orgs/CSCI-3308-012-003/projects/2/views/1



JobRanger

Todo 0
This item hasn't been started

In Progress 0
This is actively being worked on

Done 15
This has been completed

JobRanger #13
PDF Format
PDF

JobRanger #5
Create database for user info.
User Input

JobRanger #10
Add data to database
User Input

JobRanger #8
Register page

Ice Box 3

JobRanger #19
Interview question page
Maybe

JobRanger #21
Statistics banner
Maybe

JobRanger #23
Resumé font personalisation
Maybe

Demonstration Video

Link: https://drive.google.com/file/d/19sHGs3orQjzYzGiDcN-7YhbpPOJbo_87/view?usp=share_link

Git Repository

Link: https://github.com/CSCI-3308-012-003/JobRanger

Contributions

Sam Adams: Created EJS info page for adding user information and its features, including the display and formatting of previously added information and the ability to delete information. Contributed to the creation of POST Api's and modification of Api's to work properly with the info page unsing NodeJS. Created many unit tests to test the functionality of individual Api's.

Max Eaton: Set up databases for user input and created APIs for inserting, editing, and deleting information. Created link between database and information to display user information. Modified menu bar based on user authorization. Made EJS page for editing information based on type of information selected.

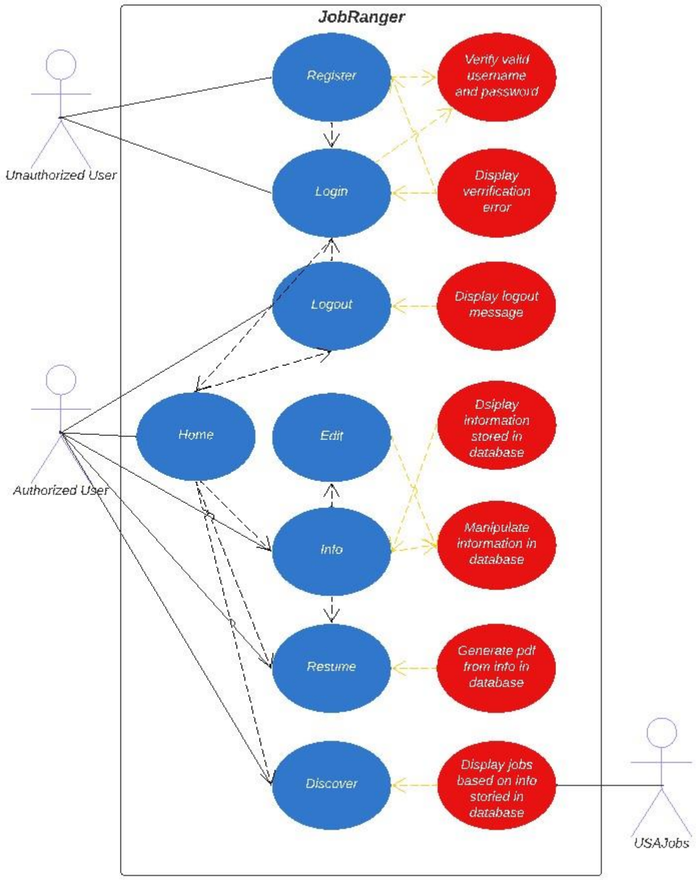
Gerardo Ferrigno: I was in charge of all of the front end design of the webpage. I created the info page with everything on it, from the cards to the vision statement. As well as being in charge of the aesthetics of the page, I created our page's logo and built on top of Sang's pdf generation by using the JsPdf library. Finally, I improved all the layouts on each page.

Sang Shim: Set up the basic HTML structure for the Resume page. Configured EJS code to display user's information stored in the database. Worked with Gerardo to figure out the html-to-pdf conversion using a variety of library imports / external API calls. Implemented the resume generation API and linked it to the Info page. Modified the user data structure in the database to adequately hold user data.

Prajwal Nepal: Prajwal/Grant: Found an appropriate API that allowed to search for jobs given parameters and used USAJobs to do so. Connected with the database to pull user info to feed into the USAJobs API. Then worked on the discover EJS page to display jobs in a suitable manner.

Grant Hargrave: Worked on finding usable API calls that worked for our purpose as well as testing API returns and filtered searches. Also created the slide deck used for our final presentation.

Use Case Diagram


JobRanger
Unauthorized User
Authorized User
USAJobs
Register
Login
Logout
Home
Edit
Info
Resume
Discover
Verify valid username and password
Display verrification error
Display logout message
Dsiplay information stored in database
Manipulate information in database
Generate pdf from info in database
Display jobs based on info storied in database

Test Results

User was fixated on menu bar and was confused as to why they were able to access the home and info pages after logging out, then signing in, then returning to the login page. They found that the menu bar was not intuitive enough, so we changed it by not including the Login or Register pages as options in the menu bar after logging in, as well as removing the Logout option when not logged in.

User added multiple entries for same type of information (i.e. multiple entries of experiences, skills, etc.) since there was an option to add field entries. They assumed that if multiple were filled in then they would all be saved when in fact only the latest entry was saved. The arcitecture for input fields was thus changed so that only one field could be inputted at a time to avoid future confusion.

Deployment

Application was deployed to Microsoft Azure although this link is not currently active. The best method for running the application is by cloning the repository and running it on a local system using docker.