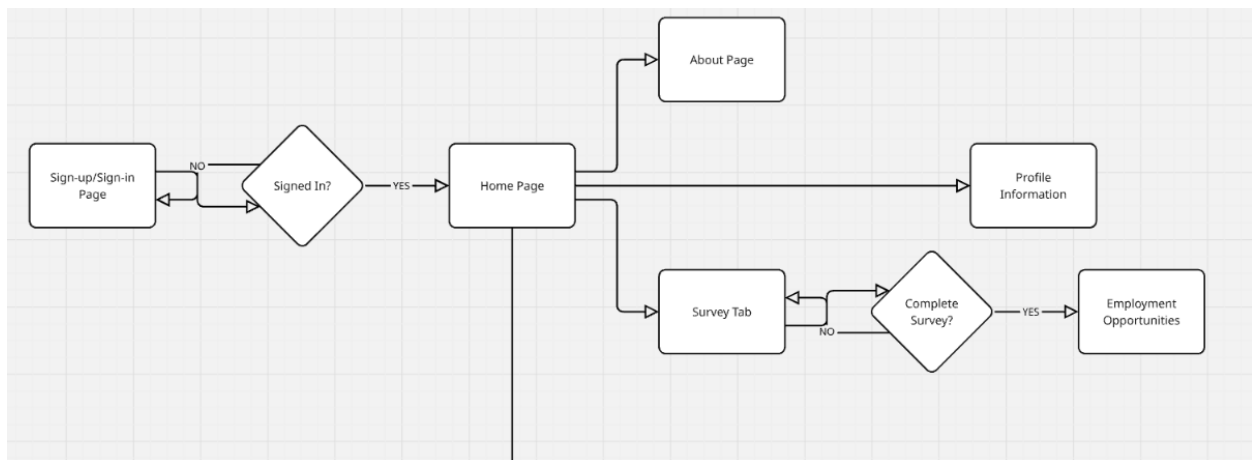
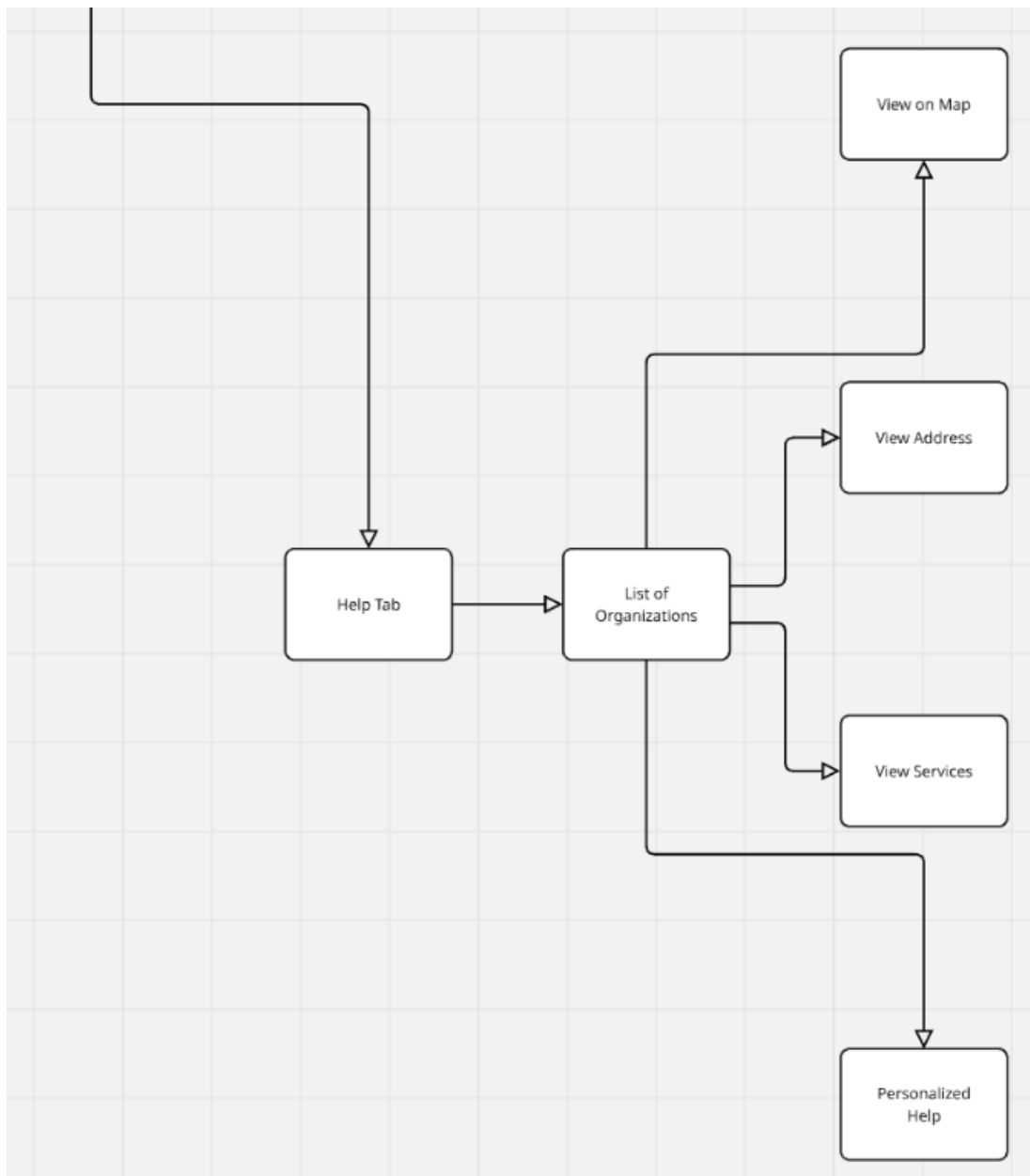


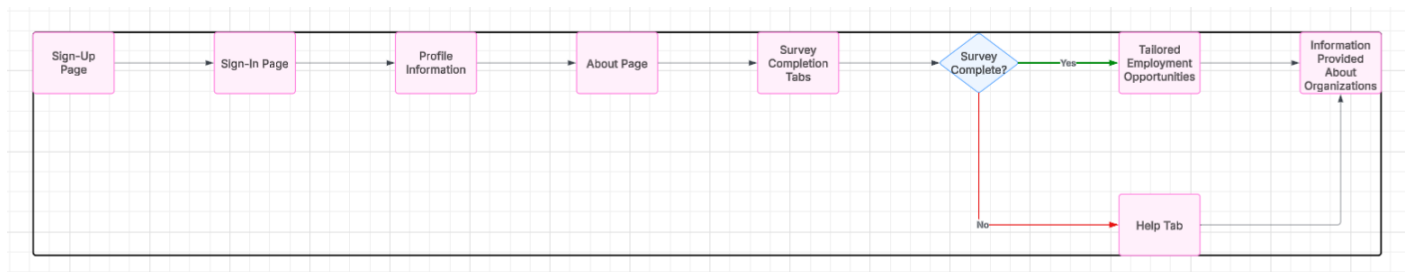
**Methodology:** The creation of the app will involve using VsCode with the following programming languages: HTML, CSS, and JavaScript. Additionally, to incorporate complex data structures, I will be using Firebase configurations and firestore authentication to implement a dynamic database for users to store information and access at any time. JavaScript and Firebase will serve as the backend, while HTML and CSS serve as the front end. After completing the logic portion of how the app will function, I will focus on system design, which will involve using databases and UI/UX design through VsCode while ensuring accessibility, convenience, and purpose. Finally, testing and debugging will take place to ensure all individual units of the website function properly and jointly. Testing will include positive and negative test cases which ensures functionality, and that the user does not face safety/security/information problems.

### FlowChart Design:



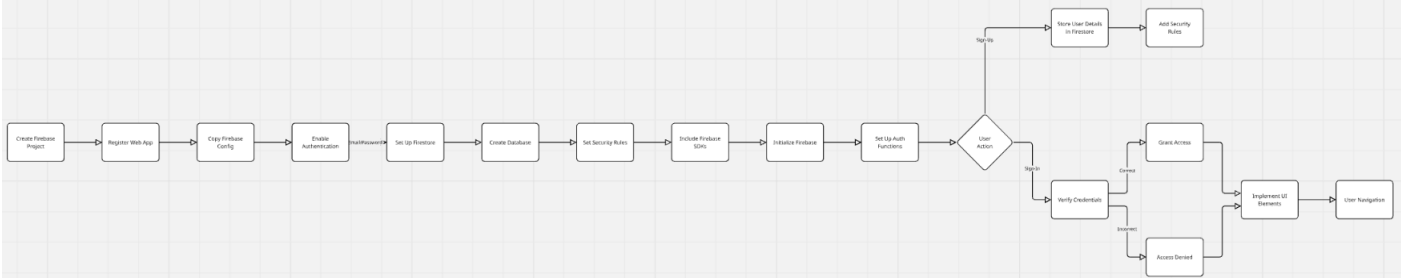
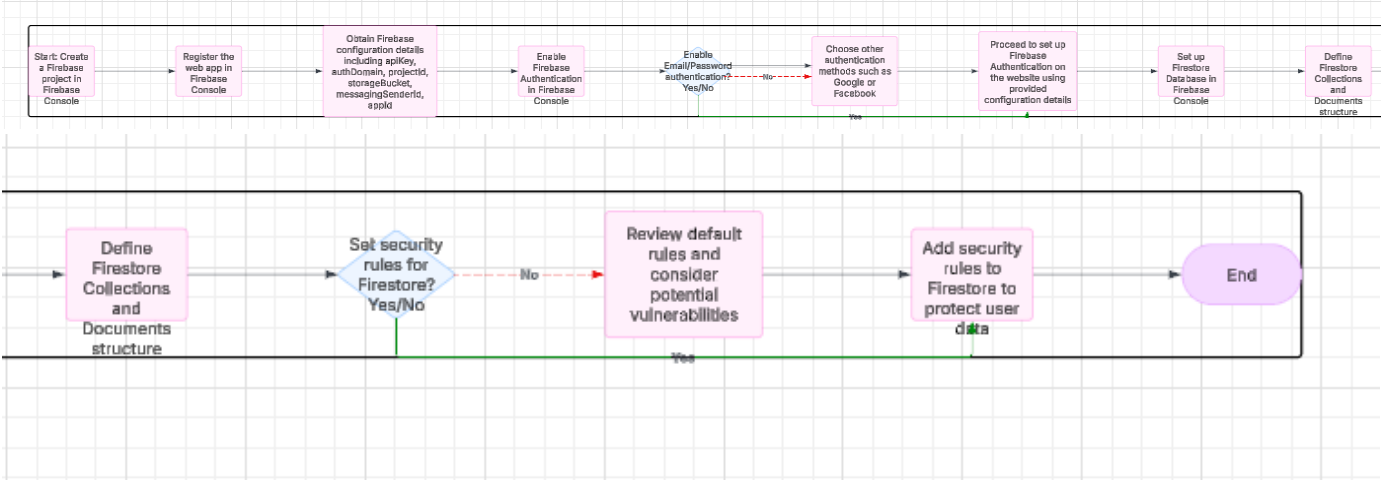


## UML Design:

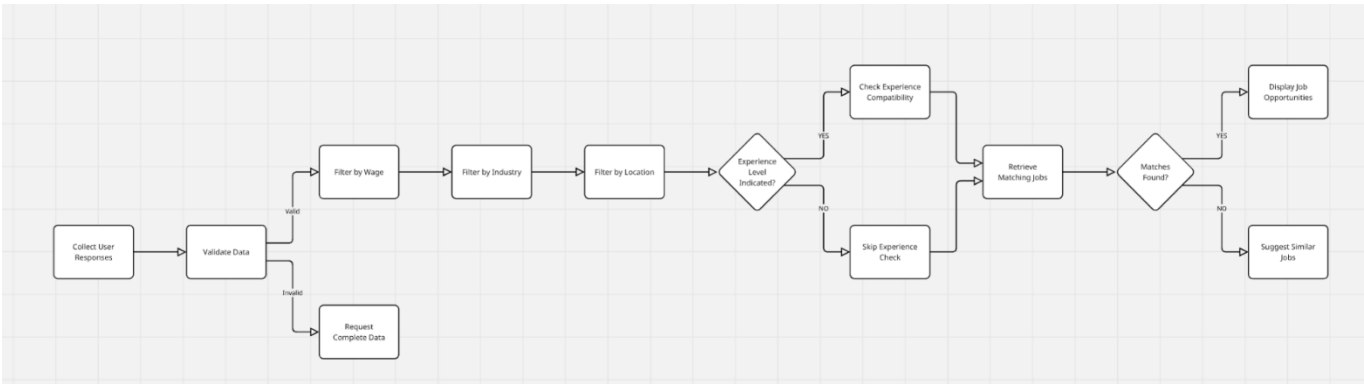


**Firestore/Firestone database flowchart algorithm:**

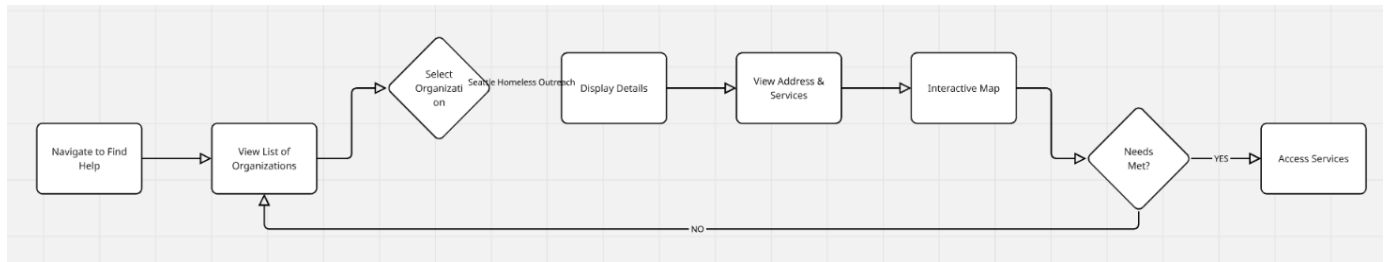
(Zoom in)



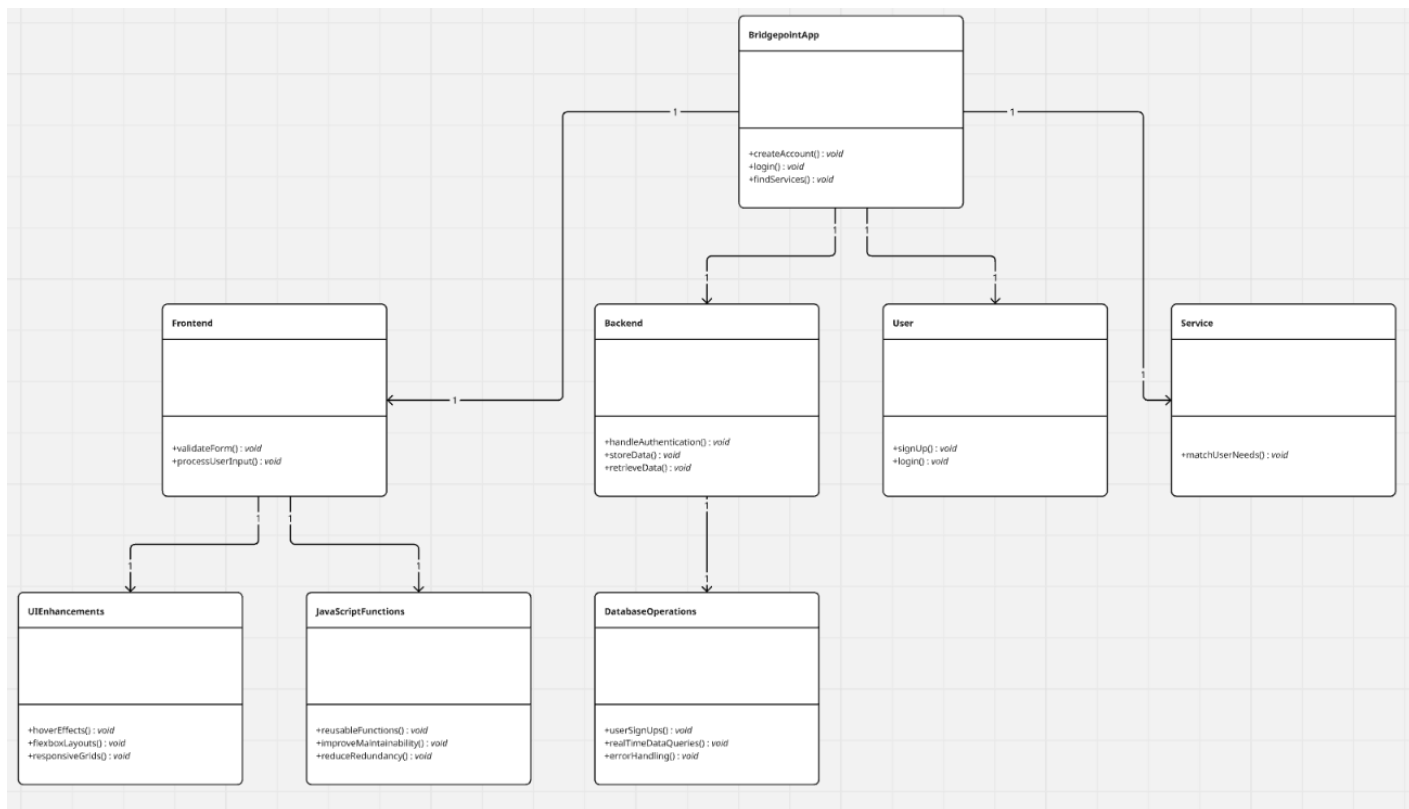
**Employment Opportunities filtration based on survey flowchart:**



## Find Help page support organizations navigation:



## UML diagram for overall app:



**Test Plan:**

<b>Feature</b>	<b>Test Scenario</b>	<b>Expected Result</b>	<b>Test Type</b>
<b>User Registration</b>	Valid details entered	Account created, confirmation received	Positive
	Invalid email format (e.g., "bob.com")	"Invalid email format" error	Negative
<b>User Login</b>	Correct email and password	User logged in successfully	Positive
	Incorrect password	"Invalid credentials" error	Negative
<b>Profile Page</b>	User logs in	Profile info displayed correctly	Positive
	User clicks logout	Logs out, redirected to sign-in	Positive
<b>Home Page Navigation</b>	Clicks on Home, About, Employment, Find Help	Redirects to the correct page	Positive
<b>About Page</b>	User visits About page	Organization details displayed correctly	Positive
<b>Survey Submission</b>	Complete survey submission	Message displayed, job recommendations generated	Positive
	Incomplete survey	Submission blocked, no redirection	Negative
<b>Job Opportunities</b>	User completes survey, searches for jobs	Recommendations provided based on responses	Positive
<b>Find Help Page</b>	User visits page	Support organizations displayed	Positive
	Clicks on an organization	Shows services & location	Positive
<b>Find Help (Map Integration)</b>	Clicks on organization's location on map	Map pinpoints correct location	Positive

Word Count: 327

