

Sprint 2 Deliverable

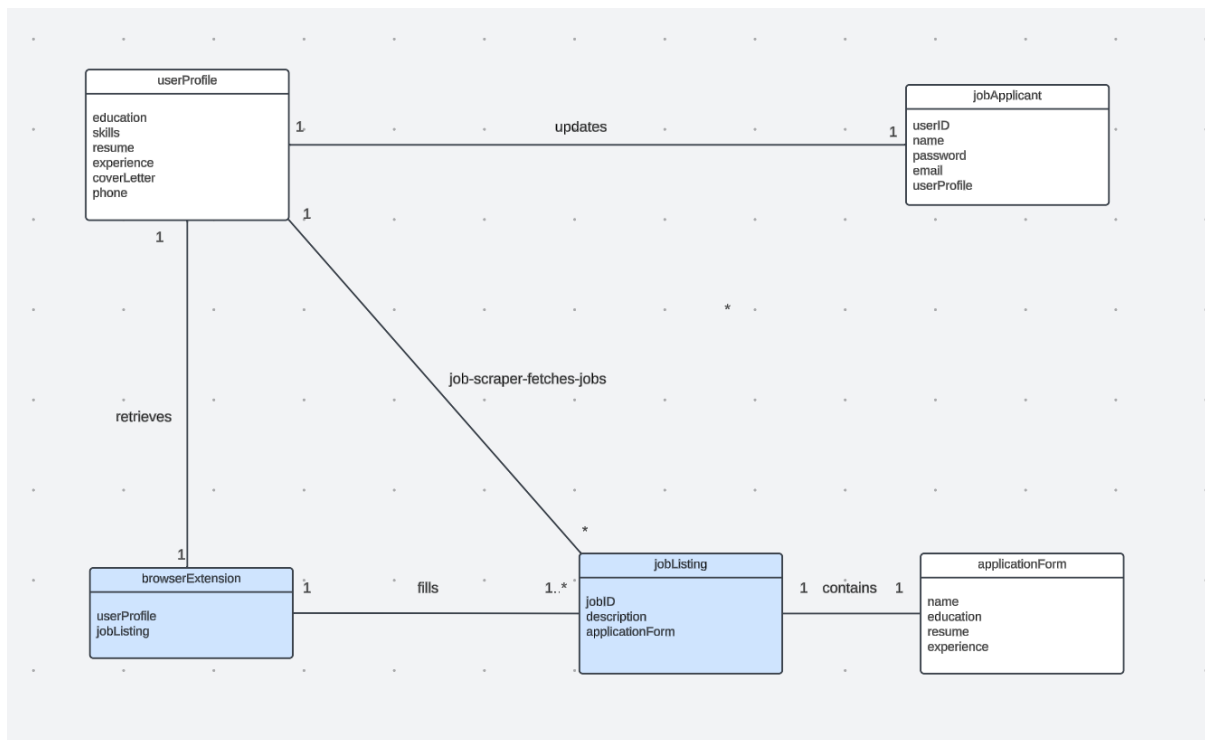
Quantify

Project members:

Khavin Krishnan Kalpana
Vineela Yerrabelli
Aditya Reddy Sabbella
Uma Sruthy Gajula
Krishna Vamsi Dhulipalla

1. Domain Model

We have renamed “jobApplicationBot” to “browserExtension” and “jobApplication” to “jobListing”, as we believe that the new names are much clearer. We have also added a new relationship between userProfile and jobListing.

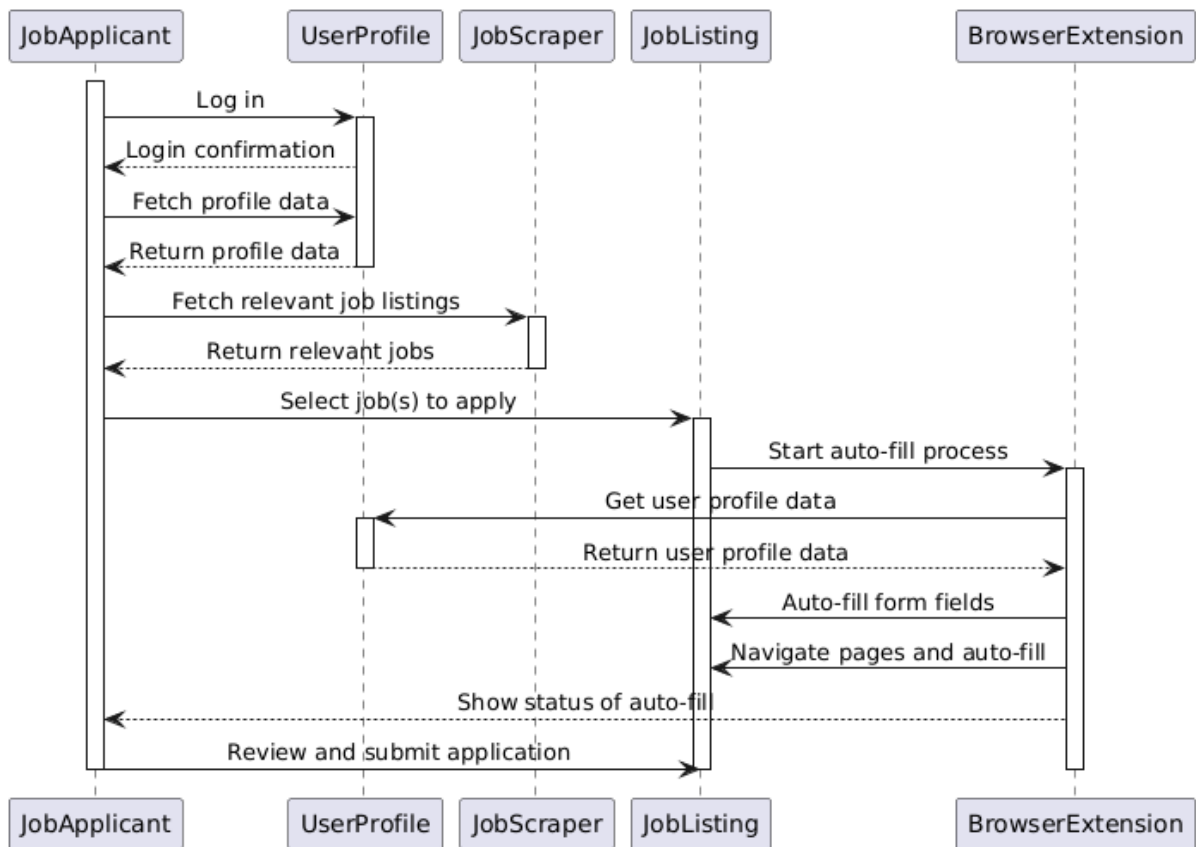


2. Interaction Diagrams

User Stories Covered:

1. As a bot, I want to handle job application errors gracefully.
2. As a bot, I want to fetch user information to auto-fill job applications.

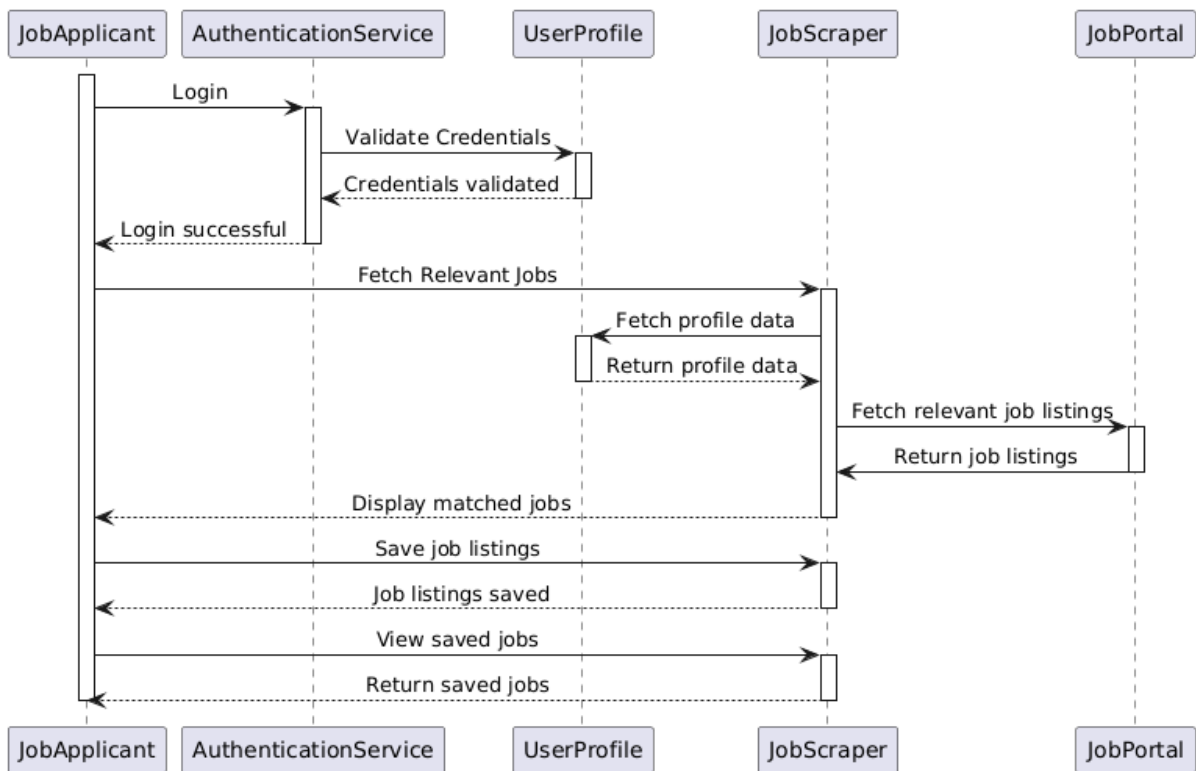
The following sequence diagram covers the above-mentioned user stories. The diagram also shows the time using rectangular blocks to denote that the objects were active during that time period. Here we have added two new domain objects: “JobScraper” and “JobListing”.



User Stories covered:

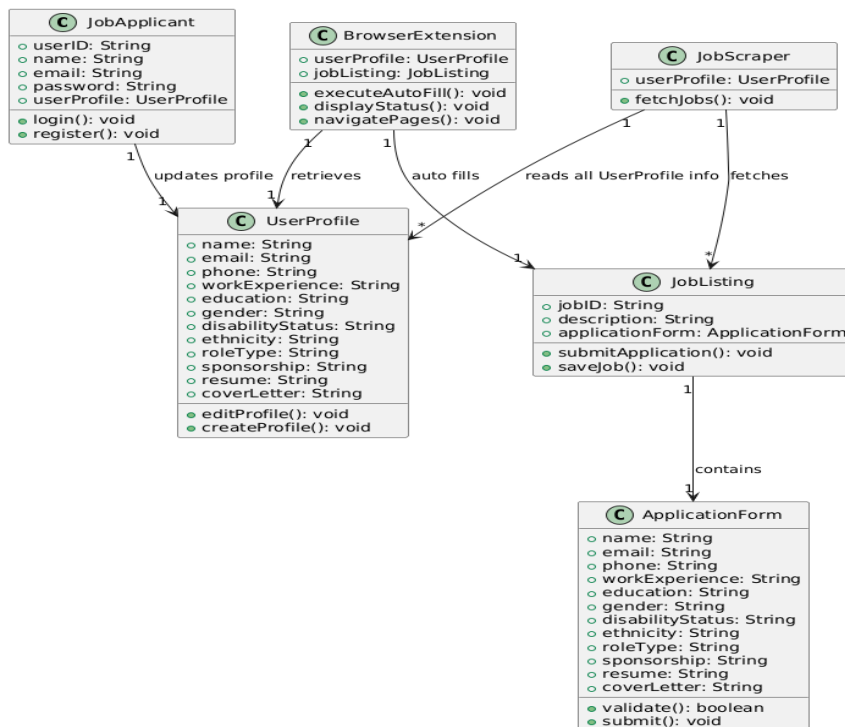
1. As a job applicant, I should see jobs which matches my profile in the dashboard.
2. As a job applicant, I want to save jobs that interest me so that I can apply to them later.

The following sequence diagram covers the above-mentioned user stories. Here we have added one new domain object: “JobPortal”. This domain object refers to external job portals like LinkedIn, Indeed, etc.,



3. Design Class Diagram

We have removed the “AuthenticationService” from the Design Class Diagram. We have also renamed “JobApplicationBot” to “JobScraper”, so that the role of the class is clear. In addition to that, we have added two new classes: “JobListing” and “ApplicationForm”.



4. Demo working product system

Updated Create Profile screen:

LinkedIn:

Portfolio:

Interested Roles:

Role type:

Will you now or in the future require sponsorship for employment work authorization to work in the United States?:

Gender:

Veteran Status:

Disability Status:

Your CV/Resume: No file chosen

Quick Links: Home

Features: Job Search

About Project: CS5704 Capstone Project

Connect With Us

We have added additional questions to the update profile screen. We are collecting information like user interested roles, sponsorship information, veteran status, disability status, etc., We have made use of “Radix UI” library for creating UI components like buttons and select elements.

Dashboard:

Quantify

Home Dashboard Profile Welcome, Sruthy Logout

Welcome to the Dashboard!

Track your saved jobs and applications in one place

Quick Links: Saved Jobs, Jobs, Applications

Jobs: 49

Saved Jobs: 2

Applications: 0

All Companies All Locations All Types Apply Filters

Select	Title	Company	Location	Type	Posted
<input type="checkbox"/>	Senior Software Engineer - \$10,000 Sign-on Bonus	TQL	Tampa, FL, US		11/9/2024
<input type="checkbox"/>	Software Developer	U.S. District Court - Southern District of Georgia	Savannah, GA, US		11/8/2024
<input type="checkbox"/>	Software Developer	U.S. District Court - Southern District of Georgia	Savannah, GA, US		11/8/2024
<input type="checkbox"/>	Applications Developer 3	Oracle	None, CA, US		11/8/2024
<input type="checkbox"/>	Applications Developer 3	Oracle	None, CA, US		11/8/2024

1 2 3 4 5 6 7 8 9 10

The dashboard now has a job listing page, where the user can see all the jobs based on their selected preferences.

Saved Jobs:

The dashboard features a navigation bar with 'Quantify' on the left and 'Home', 'Dashboard', 'Profile', 'Welcome, Sruthy', and 'Logout' on the right. The main content area is titled 'Welcome to the Dashboard!' with the subtitle 'Track your saved jobs and applications in one place'. Below this, there are three summary cards: 'Jobs' with a count of 2, 'Saved Jobs' with a count of 1, and 'Applications' with a count of 0. A 'Quick Links' sidebar on the left lists 'Saved Jobs (1)', 'Jobs (2)', and 'Applications (0)'. The main job listing table has columns for 'Select', 'Title', 'Company', 'Location', and 'Type'. One job is listed: 'Summer 2025 Supply Chain Intern-Master's Degree' by 'Applied Materials' in 'Austin, TX, USA' with the type 'Internship'. Below the table are 'Apply' and 'Delete Selected' buttons. At the bottom, there are four sections: 'Quick Links' (Home, Profile, Search Jobs), 'Features' (Job Search, Automate Application, Cover Letter), 'About Project' (CS5704 Capstone Project, Developed by: Aditya Reddy, Khavin, Uma Sruthy Gajula, Vamsi, Vineela), and 'Connect With Us' (Facebook, Twitter, LinkedIn, Instagram).

The user also can save jobs and view them at a later point in time.

Chrome Extension:

The screenshot shows a Chrome browser window with the URL 'boards.greenhouse.io/adddepar1/jobs/7670659002?gh_src=31a4a9852'. The page content includes a privacy notice, a form with dropdown menus for 'Gender' (Male), 'Are you Hispanic/Latino?' (No), and 'Please identify your race' (Please select). Below the form is a section titled 'Race & Ethnicity Definitions' with detailed text about veteran status. At the bottom, there is a 'Voluntary Self-Identification of Disability' section with form details (Form CC-305, Page 1 of 1, OMB Control Number 1250-0005, Expires 04/30/2026) and a 'Why are you being asked to complete this form?' section. A 'Hello Extensions' notification box is visible in the top right corner with a 'Start filling' button.

Previously the Chrome extension “Quantify” was only capable of autofilling text input fields. Now the extension is capable of auto filling select elements as well (also known as dropdown fields).

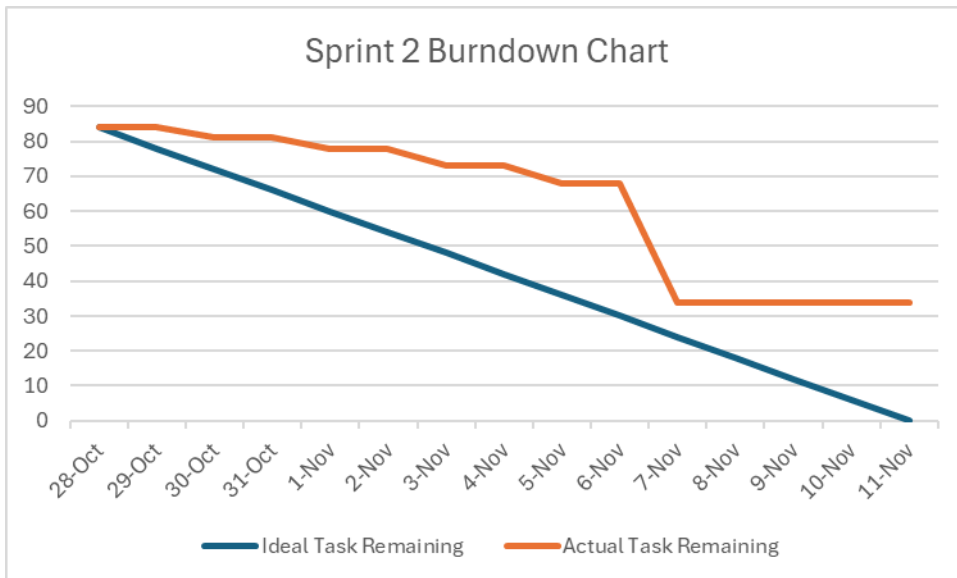
Note: The extension will only work for domains that start with the url pattern: “https://boards.greenhouse.io/*”

3. Scrum

Sprint 2 Backlog:

Type	Key	Summary	Status	Story point estimate	Priority	Created	Assignee
JAB Sprint 2							
■	JAB-1	As a bot, I want to fetch user information to auto-fill job applications	TO DO	8	↑	Oct 1, 2024	Krishna vamsi Dhuli...
■	JAB-3	As a bot, I want to handle job application errors gracefully	TO DO	5	=	Oct 1, 2024	Vineela
■	JAB-4	As a bot, I want to automatically fill out job application forms	IN PROGRESS	34	↑	Oct 1, 2024	khavin
■	JAB-33	Load user profile information from service worker	IN PROGRESS	8	=	Oct 24, 2024	khavin
■	JAB-34	Load user resume from service worker	IN PROGRESS	9	=	Oct 24, 2024	khavin
■	JAB-35	Store the user profile info and resume in indexed db	IN PROGRESS	8	=	Oct 24, 2024	khavin
■	JAB-36	Retrieve user profile info and resume from content script	TO DO	9	=	Oct 24, 2024	khavin
■	JAB-8	As a job applicant, I want to save jobs that interest me so that I can apply to them later.	TO DO	3	=	Oct 1, 2024	Uma Sruthy Gajula
■	JAB-29	User should be able to save/remove job listings from saved jobs	TO DO	1	=	Oct 2, 2024	
■	JAB-30	Create a Saved Jobs UI to display all the saved jobs	TO DO	2	=	Oct 2, 2024	
■	JAB-10	As a job applicant, I should see jobs which matches my profile in the dashboard.	TO DO	34	=	Oct 1, 2024	Aditya Reddy Sabbella
■	JAB-24	Create a dashboard UI that retrieves job listings from backend and populate in the dashboard	TO DO	6	=	Oct 2, 2024	
■	JAB-25	User should have the ability to sort the listings (Recently posted on by default)	TO DO	7	=	Oct 2, 2024	
■	JAB-26	User should be able to filter the job listings on dashboard by job type, role, location and so on.	TO DO	7	=	Oct 2, 2024	
■	JAB-28	Implement pagination for the job listings in the dashboard	TO DO	7	=	Oct 2, 2024	
■	JAB-32	User should be able to multi-select job listings and apply at once.	TO DO	7	=	Oct 2, 2024	

Sprint 2 Burndown Chart:



Sprint retrospective:

We were able to complete 3 of the 4 user stories mentioned in Sprint 2.

Completed User Stories:

JAB-3: As a bot, I want to handle job application errors gracefully

JAB-8: As a job applicant, I want to save jobs that interest me so that I can apply to them later.

JAB-10: As a job applicant, I should see jobs which matches my profile in the dashboard.

Incomplete tasks:

JAB-4: As a bot, I want to automatically fill out job application forms

Challenges faced:

We realized that the generalizability of the browser extension to different job portals is going to be a problem. We are currently able to fill the input text fields in most of the job portals. But the DOM structure of the dropdown fields is different for different job portals. For the scope of the project, we are planning to make the browser extension fully compatible with boards.greenhouse.io job portals.

Things that went well:

We were able to address most of the issues faced in Sprint 1. We created the necessary sub tasks at the start of the sprint and each task was assigned a resource. So, the team had much better clarity on who is working on what task. There was no duplication of efforts. We also met twice a week using Zoom to discuss the progress and to see if there any blockers.

Things that could be improved:

We have realized that the browser extension and job scraping parts should require more resources compared to the dashboard. So, for the next sprint, we will be assigning more resources to those two parts.

Product Backlog (Updated):

- No new stories were added to this sprint. We have successfully completed most of the tasks on schedule and one task which was not finished, has been moved to the next sprint. Therefore, there are no additions to your backlog.

Issue Tracking:

<input type="checkbox"/>	🕒 2 Open	✓ 6 Closed	Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>		Jab 26 ✖						1
	#8 opened 2 days ago by adiboy6							
<input type="checkbox"/>		Jab 39 scraper to crawl through job boards ✓					2	1
	#7 by adiboy6 was merged 2 days ago							
<input type="checkbox"/>		Merge backend with UI and extension ✖						1
	#6 by khavin was merged 2 weeks ago • Review required							
<input type="checkbox"/>		Merge dashboard home page UI ✓						
	#5 by khavin was merged 2 weeks ago • Review required							
<input type="checkbox"/>		Scraper to crawl through job boards					1	
	#4 by adiboy6 was closed 1 minute ago							
<input type="checkbox"/>		Web extension to fetch user profile data					1	
	#3 opened 2 weeks ago by adiboy6							
<input type="checkbox"/>		Create a User Profile page with all the relevant fields						
	#2 by adiboy6 was closed 2 weeks ago							
<input type="checkbox"/>		Create a Login/Registration page						
	#1 by adiboy6 was closed 2 weeks ago							

Include your Sprint 3 backlog:

<input type="checkbox"/>	Type	# Key ↑	Summary	Status	Story point estimate	Priority	Created	Assignee
<input type="checkbox"/>		JAB Sprint 3						
<input type="checkbox"/>		JAB-1	As a bot, I want to fetch user information to auto-fill job applications	IN PROGRESS	8	↑	Oct 1, 2024	
<input type="checkbox"/>		JAB-4	As a bot, I want to automatically fill out job application forms	IN PROGRESS	34	↑	Oct 1, 2024	
<input type="checkbox"/>		JAB-33	Load user profile information from service worker	IN PROGRESS	8	=	Oct 24, 2024	
<input type="checkbox"/>		JAB-34	Load user resume from service worker	DONE	9	=	Oct 24, 2024	
<input type="checkbox"/>		JAB-35	Store the user profile info and resume in indexed db	IN PROGRESS	8	=	Oct 24, 2024	
<input type="checkbox"/>		JAB-36	Retrieve user profile info and resume from content script	TO DO	9	=	Oct 24, 2024	
<input type="checkbox"/>		JAB-5	As a job applicant, I want to sort job listings by the date they were posted so that I can see the most...	IN PROGRESS	3	↓	Oct 1, 2024	
<input type="checkbox"/>		JAB-6	As a job applicant, I want to filter jobs by type (e.g., full-time, part-time, contract) so that I can find j...	IN PROGRESS	3	↓	Oct 1, 2024	
<input type="checkbox"/>		JAB-7	As a job applicant, I want the bot to help generate a custom cover letter for each job so that I can a...	TO DO	8	↓	Oct 1, 2024	