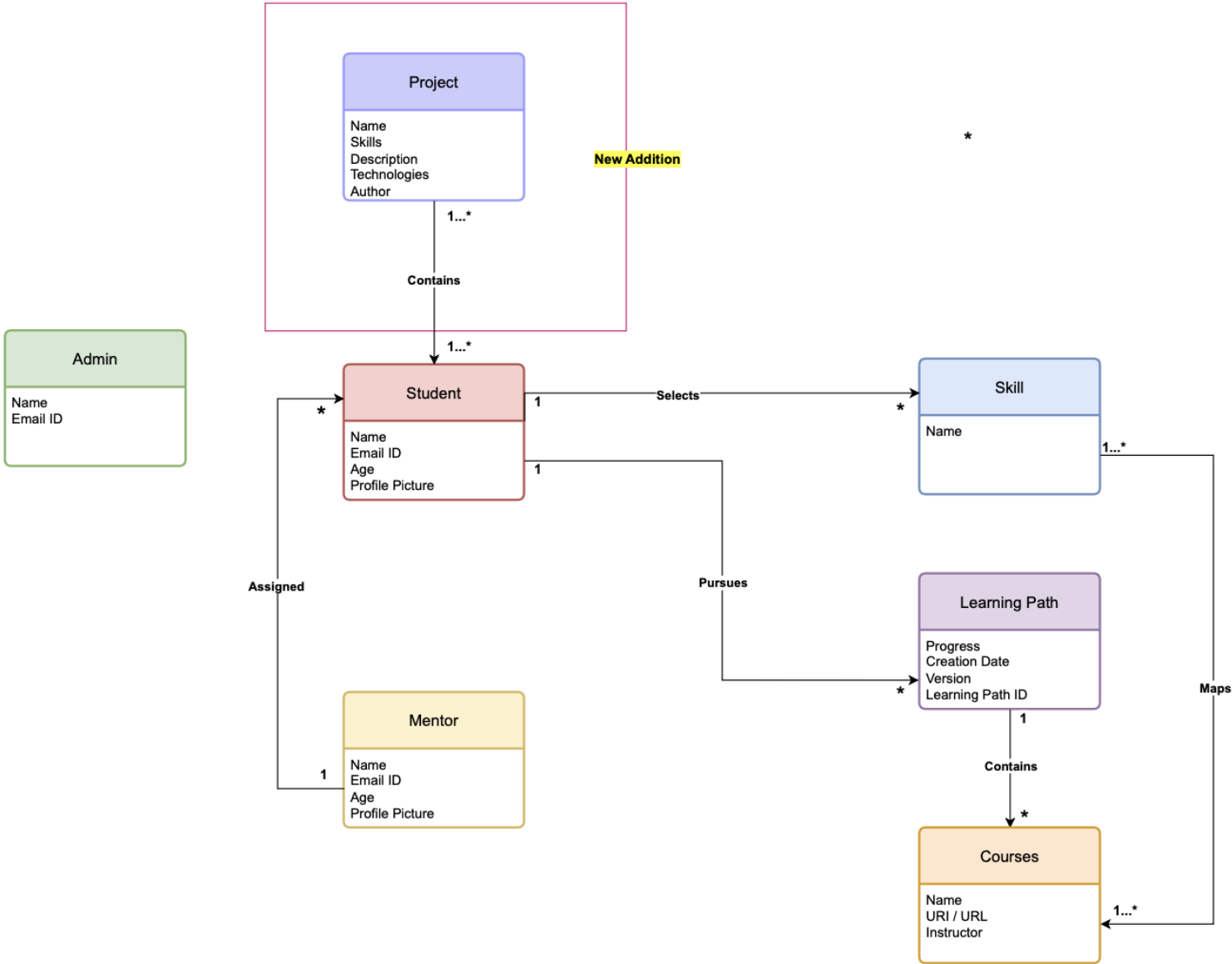
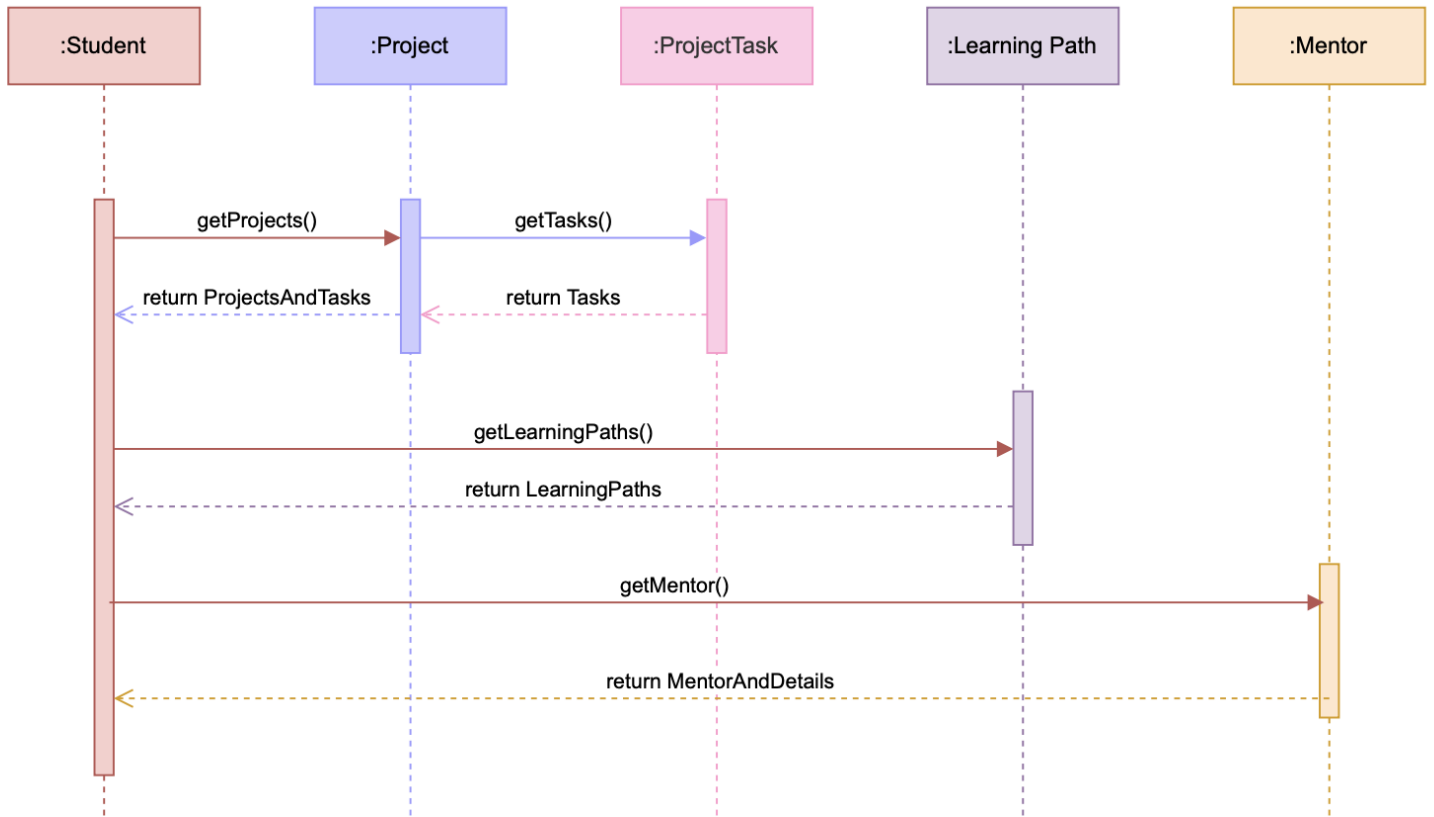


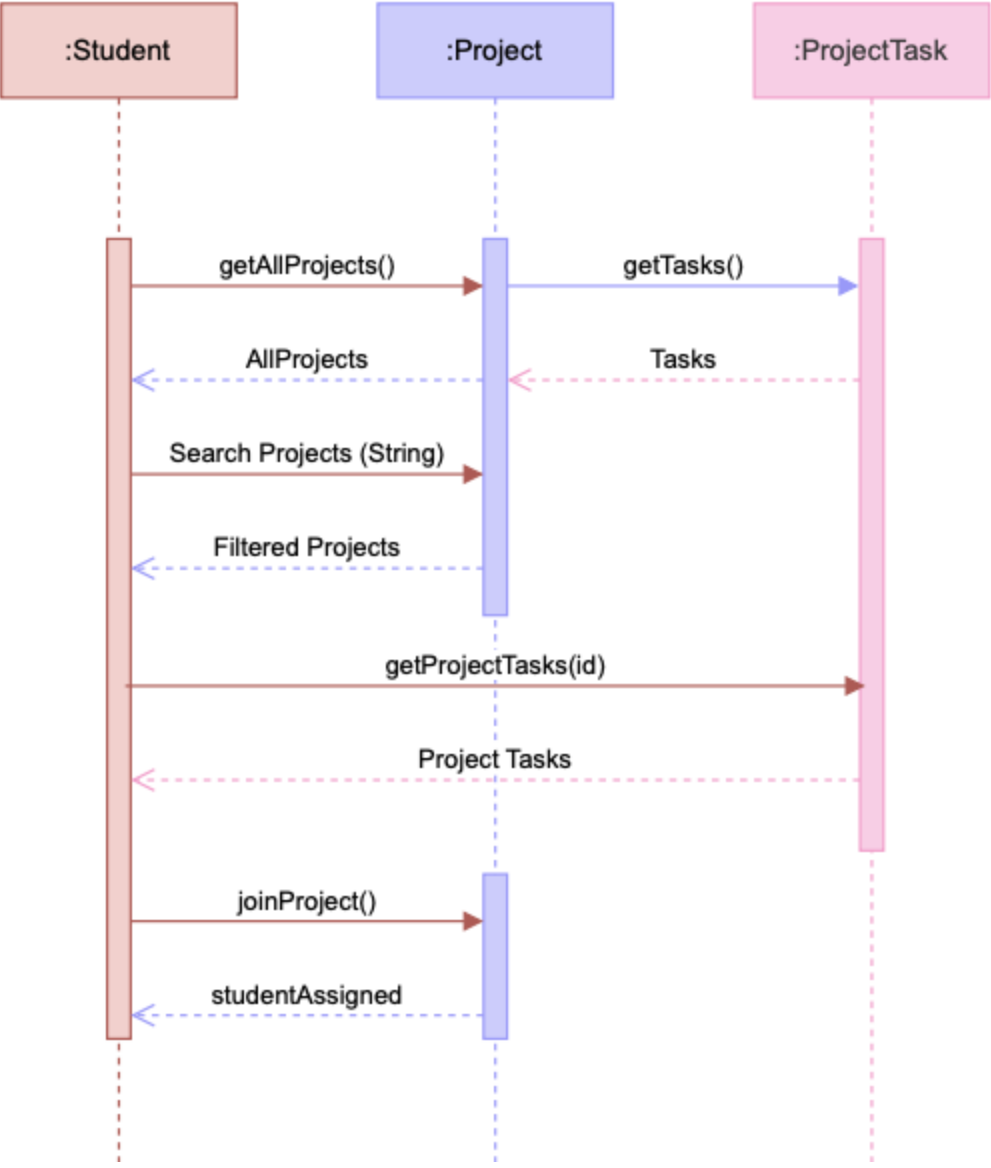
# Deliverables - Sprint 2

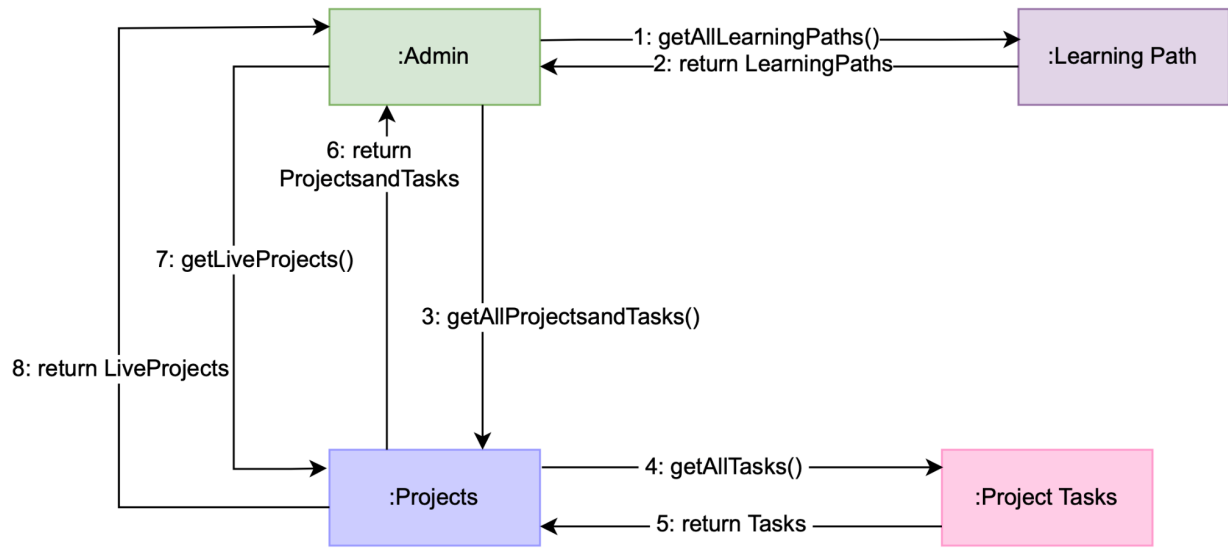
## Domain Model



## Interaction Diagrams

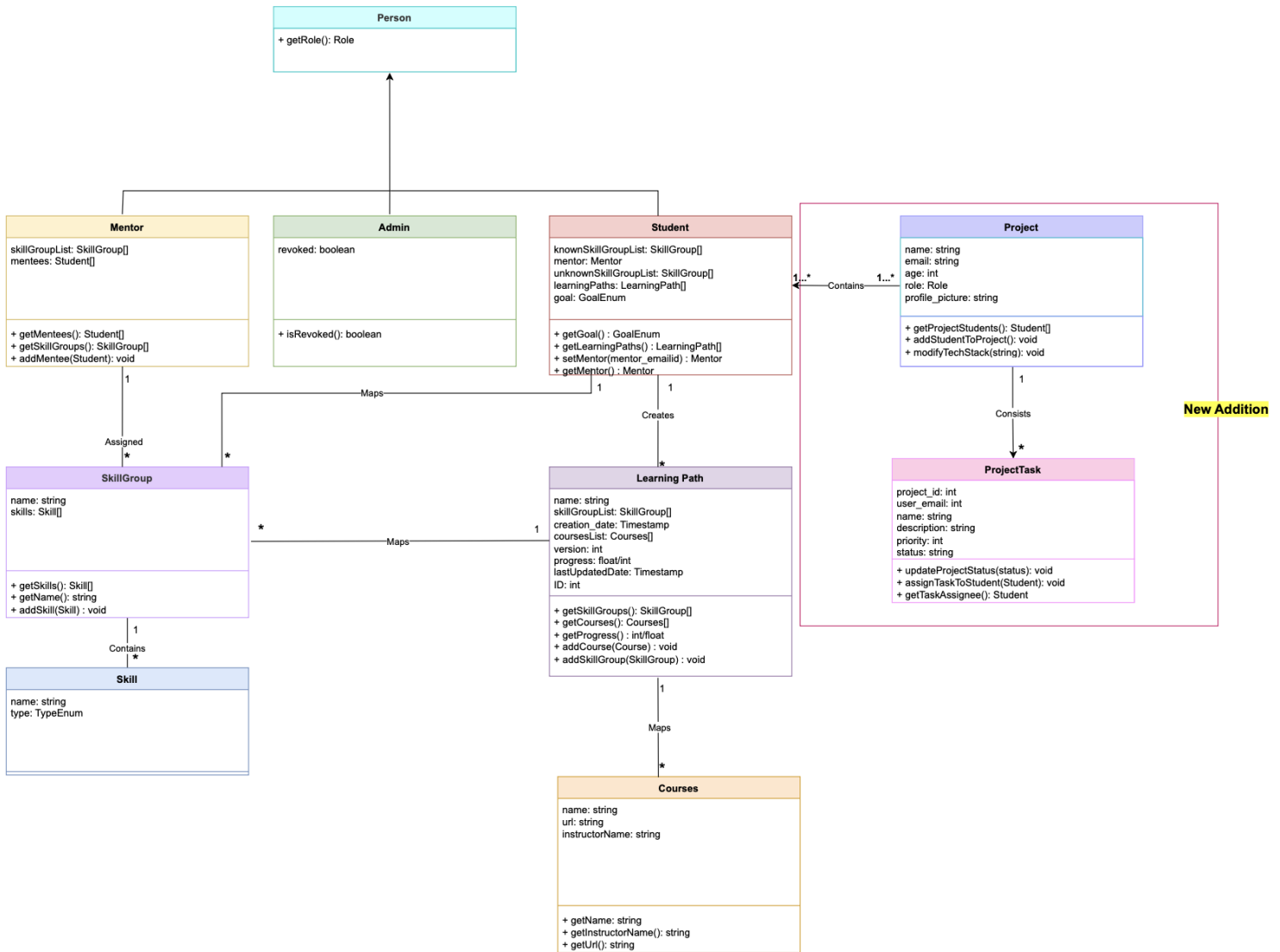






# Design Class Diagram

Design Class Diagram



# Demo

The screenshot shows a web browser at localhost:3000/dashboard. The page features the 'illuminate' logo in the top left and navigation links for 'COLLABORATION', 'MY MENTOR', 'Ujjwal Maheshwari', and 'LOGOUT' in the top right. A central green heading reads 'Hi, Welcome to Illuminate!'. Below this, three tabs are visible: 'MY LEARNING PATHS' (selected), 'MY PROJECTS', and 'MY MENTOR'. A large green heading repeats 'Hi, Welcome to Illuminate!' with the subtext 'Achieve your goals with a path designed just for you.' and a purple 'LET'S GO' button. An illustration of a hand holding a smartphone is positioned at the bottom.

This screenshot displays the 'Collaboration' page. The navigation bar remains the same. The 'MY LEARNING PATHS' tab is selected. The main heading is 'Collaboration' in green. The text below reads: 'The best way to learn is by doing and working with peers. Get hands-on with real world projects and experience what it is like working with a team.' To the right is an illustration of people working together around a table with a laptop and documents. A list of three bullet points is provided: 'Search for skills you want to implement', 'Look for the roles you want to play', and 'Join the project that matches best to your expectations'. A purple 'LET'S COLLABORATE' button is at the bottom center. The footer includes social media icons for LinkedIn, Facebook, Twitter, and Instagram, and the text 'Copyright ©2023 Illuminate, Inc'.

localhost:3000/collaborate

illuminate

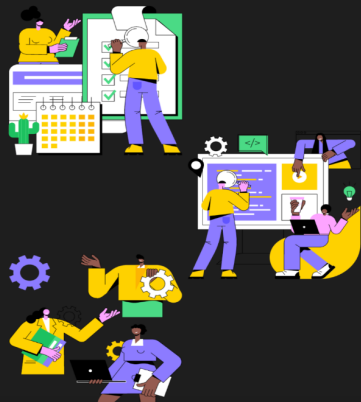
COLLABORATION MY MENTOR Ujjwal Maheshwari LOGOUT

## Collaboration

The best way to learn is by doing and working with peers. Get hands-on with real world projects and experience what it is like working with a team.

- Search for skills you want to implement
- Look for the roles you want to play
- Join the project that matches best to your expectations

Search Projects





localhost:3000/collaborate

illuminate

COLLABORATION MY MENTOR Ujjwal Maheshwari LOGOUT


Search Projects



### Web Crawling in JavaScript Using Cheerio

Tasks : 3


PREVIEW >

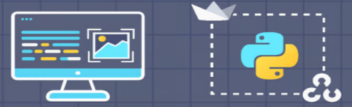


### Population Modeling and Simulations in Python

Tasks : 0

PREVIEW >





localhost:3000/collaborate

illuminate

COLLABORATION MY MENTOR Ujjwal Maheshwari U LOGOUT

**Web Crawling in JavaScript Using Cheerio**

Tasks : 3

PREVIEW >

**Population Modeling and Simulations in Python**

Tasks : 0

PREVIEW >

**Collaborative Filtering Recommendation System**

Tasks : 0

PREVIEW >

**Build an Object Detection Web App with YOLOv8 and Streamlit**

Tasks : 0

PREVIEW >

in f t i

Copyright ©2023 Illuminate, Inc


localhost:3000/project/1


illuminate

COLLABORATION MY MENTOR Ujjwal Maheshwari U LOGOUT

**Web Crawling in JavaScript Using Cheerio**

In this project, we will crawl a real-world website using features provided by the Cheerio library in Node.js. We will learn to automatically extract URLs from link HTML elements across an entire site. Lastly, we will export the collected data to CSV.





**You will learn to:**

- Understand the fundamentals of crawling a site.
- Build an automated software tool that can crawl an entire site. Populate a set of URLs discovered in the target site.
- Export the discovered URLs to CSV.

**Skills**

HTML Elements Data Collection

localhost:3000/project/1

illuminate

COLLABORATION MY MENTOR Ujjwal Maheshwari U LOGOUT

Web Scrapping

Technologies

HTML Node.js

Cheerio Java Script

Project Author(s) -  
ujjwal29@gmail.com

**Prerequisites**

- Basic understanding of HTTP and the client/server architecture
- Basic understanding of JavaScript
- Basic understanding of Node.js

**Project Description**

The Cheerio library in Node.js provides a powerful API for parsing HTML documents. It can easily traverse and manipulate HTML structures, making it an ideal choice for data collection and web crawling. In this project, we will build a Node script to crawl an entire site with Cheerio and its capabilities. We will download one page of a target site with the Node.js Fetch API. Next, we will use Cheerio's functions to select HTML link elements using CSS selectors, extract their

localhost:3000/project/1

illuminate

COLLABORATION MY MENTOR Ujjwal Maheshwari U LOGOUT

**Cheerio's functions to select HTML link elements using CSS selectors, extract their URLs, and repeat this procedure for other site URLs until all pages have been discovered. Finally, we will take advantage of the Node I/O capabilities to export the scraped data in human-readable CSV format.**

**Project Tasks**

- Initial Setup
- Implement Link Discovery Logic
- Link Discovery Logic(Advanced)

Join Project

localhost:3000/admin

illuminate LOGIN

### Product Users





Email	Name	Age ↑	Number of projects	Number of tasks	Number of LPs
ujjwalm29@gmail.com	Ujjwal Maheshwari	22	1	3	2

Items per page: 6 1-1 of 1

### Projects

Name	Status	Number of Tasks	Number of Members
Web Crawling in JavaScript Using Cheerio	active	3	1
Population Modeling and Simulations in Python	active	0	0
Collaborative Filtering Recommendation System	active	0	0
Build an Object Detection Web App with YOLOv8 and Streamlit	active	0	0

Items per page: 6 1-4 of 4

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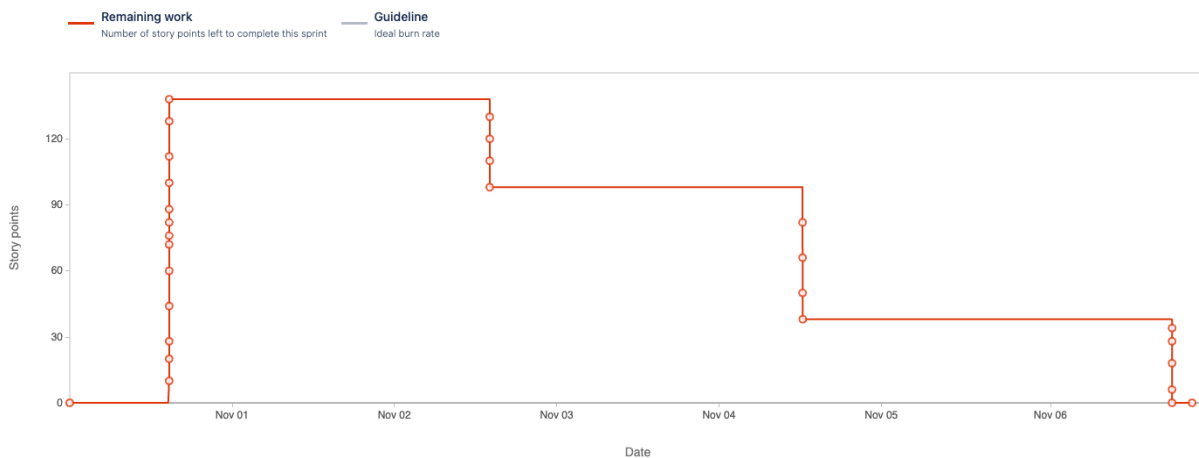
## Initial Product Backlog - Sprint 2

ID	User Story	Estimation (Scale of 1-10)	Priority	Tasks	Hours
1	As a user, I want to gain hands-on experience in programming skills so that I am confident while applying for jobs and perform better as an engineer.	4	1	<ul style="list-style-type: none"> <li>- Brainstorm ideas about how to make the collaboration page intuitive.</li> <li>- Design UX for collaboration page.</li> </ul>	8
2	As a user, I want to select the topics of interest to gain hands-on experience so that I can decide which projects to join best suit my interests.	7	2	<ul style="list-style-type: none"> <li>- Take input from users regarding the skills that they are interested in applying.</li> <li>- Design UX for this flow</li> <li>- Implement User Interface.</li> <li>- Design tables and implement backend for the same</li> </ul>	18

3	As a user,I want to see what projects are live or yet to start so that I can decide which projects to join that suit best of my interests.	8	3	<ul style="list-style-type: none"> <li>- Design UX for projects page.</li> <li>- Design relations between various project-related tables.</li> <li>- Implement backend</li> </ul>	20
4	As a user, I want to see the project description So that I can decide if I want to join the project or not.	6	4	<ul style="list-style-type: none"> <li>- Design UX for project specific page</li> <li>- Implement the User Interface for project specific page.</li> <li>- Implement APIs to get project details</li> </ul>	20
5	As a user,I want to check which positions are available for joining in a project So that I can see if this project requires my skills or not.	6	5	<ul style="list-style-type: none"> <li>- Implement User interface to present the list of tasks available in the project</li> <li>- Design backend to include project members.</li> </ul>	20
6	As a user, I want to see the tech stack of this project So that I can see a description of all the technologies used in this project.	8	6	<ul style="list-style-type: none"> <li>- Design and implement project details user interface.</li> <li>- Implement project details API in backend</li> </ul>	10
7	As an administrator,I want to see the personalized path that the user created So that I can track the progress of the users.	6	7	<ul style="list-style-type: none"> <li>- Design the UX for Admin dashboard.</li> <li>- Implement API to get personalized path details</li> </ul>	15
8	As an administrator,I want to see the projects in which users are enrolled So that I can track the progress of the users.	8	8	<ul style="list-style-type: none"> <li>- Design User Interface for users table.</li> <li>- Implement API to get user details</li> </ul>	12
9	As an administrator,I want to see which	8	9	<ul style="list-style-type: none"> <li>- Design User Interface for projects table.</li> </ul>	14

	projects are live, So that I can keep track of active users in those projects.			- Implement API to get projects details	
10	As an administrator,I want to see which projects are yet to start So that I can see which positions need to be filled to start the respective projects.	7	10	- Design User Interface for projects table. - Implement API to get projects details	6

## Sprint 2 Burnout Chart



## Sprint 2 Retrospective

### What went well?

- The UI development was done much better compared to the previous sprint.
- The collaboration between the developers and the UI/UX designer was smooth and seamless in the sprint.
- The team members were receptive to the regular feedback and were eager to try out changes.
- Good team spirit was shown all across the team.

### What can be improved?

- The team should pick some non-functional requirements to improve the code base.
- The team needs a more accurate way to estimate user stories.

**Action Items:**

- Find more accurate and better ways to estimate the user stories.
- Review the acceptance criteria of user stories when the team is closing them down.

**Sprint 2 Updated Backlog**

ID	User Story	Estimation (Scale of 1-10)	Priority	Tasks	Hours
1	As a user, I want to gain hands-on experience in programming skills, so that I am confident while applying for jobs and perform better as an engineer.	4	1	<ul style="list-style-type: none"> <li>- Brainstorm ideas about how to make the collaboration page intuitive.</li> <li>- Design UX for collaboration page.</li> </ul>	8
3	As a user,I want to see what projects are live or yet to start, so that I can decide which projects to join that suit best of my interests.	8	3	<ul style="list-style-type: none"> <li>- Design UX for projects page.</li> <li>- Design relations between various project related tables.</li> <li>- Implement backend</li> </ul>	20
4	As a user, I want to see the project description, So that I can decide if I want to join the project or not.	6	4	<ul style="list-style-type: none"> <li>- Design UX for project specific page</li> <li>- Implement the User Interface for project specific page.</li> <li>- Implement APIs to get project details</li> </ul>	20

5	As a user,I want to check the tasks that are listed of this project, So that I can see if this project requires my skills or not.	6	5	<ul style="list-style-type: none"> <li>- Implement User interface to present the list of tasks available in the project</li> <li>- Design backend to include project members.</li> </ul>	20
6	As a user, I want to see the tech stack of this project, So that I can see a description of all the technologies used in this project.	8	6	<ul style="list-style-type: none"> <li>- Design and implement project details user interface.</li> <li>- Implement project details API in backend</li> </ul>	10
7	As an administrator,I want to see the personalized path that the user created, So that I can track the progress of the users.	6	7	<ul style="list-style-type: none"> <li>- Design the UX for Admin dashboard.</li> <li>- Implement API to get personalized path details</li> </ul>	15
8	As an administrator,I want to see the projects in which users are enrolled, So that I can track the users' progress.	8	8	<ul style="list-style-type: none"> <li>- Design User Interface for users table.</li> <li>- Implement API to get user details</li> </ul>	12
11	As a user, I want to access my Home page containing so that I can view my projects, my learning paths, and my mentor	8	8	<ul style="list-style-type: none"> <li>- Design UX of the home page.</li> <li>- Implement User interface elements to show learning paths, projects and mentors tab.</li> <li>- Implement backend API to get the relevant information from backend</li> </ul>	24
9	As an administrator,I want to see which projects are live,So	8	9	<ul style="list-style-type: none"> <li>- Design User Interface for projects table.</li> </ul>	14

	that I can keep track of active users in those projects.			- Implement API to get projects details	
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### Removed Stories

2	As a user, I want to select the topics of interest to gain hands-on experience, so that I can decide which projects to join that suit best of my interests.	7	2	<ul style="list-style-type: none"> <li>- Take input from users regarding the skills that they are interested in applying.</li> <li>- Design UX for this flow</li> <li>- Implement User Interface.</li> <li>- Design tables and implement backend for the same</li> </ul>	18
---	---	---	---	--	----

10	As an administrator, I want to see which projects are yet to start So that I can see which positions need to be filled to start the respective projects.	7	10	<ul style="list-style-type: none"> <li>- Design User Interface for projects table.</li> <li>- Implement API to get projects details</li> </ul>	6
----	--	---	----	--	---

During the start of the sprint 2, we went through all the user stories and decided the plan of action. On revisiting the above two stories and considering the design aspect we decided to remove user story 2 as we wanted the user to jump right to searching projects based on their needs instead of picking up certain topics and have limited options under them.

Further, we decided to delete the user story 10 as the user story for the user for the same feature was updated as we decided to switch positions with list of tasks.

## Updated Stories

	Old Story	Updated Story
5	As a user,I want to check which positions are available for joining in a project, So that I can see if this project requires my skills or not.	As a user,I want to check the tasks that are listed on this project, So that I can see if this project requires my skills or not.

We updated the user story 5 because we decided that it would be easier for the user to judge the project's scope based on the tasks associated with it instead of mentioning positions available to be filled.

## New Added Stories

11	As a user, I want to access my Home page containing so that I can view my projects, my learning paths, and my mentor	8	8	<ul style="list-style-type: none"><li>- Design UX of the home page.</li><li>- Implement User interface elements to show learning paths, projects and mentors tab.</li><li>- Implement backend API to get the relevant information from backend</li></ul>	24
----	--	---	---	--	----

We wanted to add the homepage but initially, we thought it would be like any other e-learning platform where users would be able to search for any course, but since that is not a feature for Illuminate, we decided to make the homepage a dashboard for the user where they will be able to access the learning paths, projects and mentor information in which they are already enrolled and will also have an option to generate more paths and join more projects.

## Issue Tracking

- Added in GitLab Repo.

## Product Backlog - Sprint 3

ID	User Story	Estimation (Scale of 1-10)	Priority	DoDs
28	As a mentor, I want to see all the mentees under me, So that I can schedule my time accordingly.	5	1	Mentor should be able to view their home page and see a list of mentees they work with
29	As a mentor, I want to see the goals and needs of each mentee, So that I can guide my mentee accordingly.	6	2	Mentor should be able to click on an entry of each mentee to see more details about each one
30	As a mentor, I want to access the calendar, So that I can see all the meetings I have scheduled with my mentees.	10	3	Mentor should be able to easily view the timing blocks that each mentor wants to speak with them
31	As a mentor, I want to see all the messages that my mentees have sent, So that I can reply to their concerns and issues.	8	5	Mentor should be able to view their inbox from their mentees and reply to them
3	As a mentor, I want to track the progress of my mentees, So that I can give them feedback.	7	6	As a mentor, I am able to fetch more details about each mentee, and see the courses they have completed
24	As an administrator, I want to see if all the users who requested mentors have one assigned, So that they can get started with their journey.	3	7	As an admin, I want to list the mentees for each mentor on an admin page of the app
25	As an administrator, I want to see if mentors are responding to user's questions and So that	3	8	As an admin, I want to list the mentee-mentor conversations on an admin page of the app

	mentor-mentee relationships last long.			
26	As an administrator, I want to see the number of registered users and registered mentors, So that the mentor-mentee ratio is balanced.	4	9	As an admin, I want to list the mentees for each mentor
27	As an administrator, I want to see if we have courses for all the selected topics, So that users don't face any hindrance in their learning paths.	6	10	As an admin, I want to list the courses on the platform, and list all the topics in each one