Sprint 3 Planning

Intelligent Search

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SPRINT OVERVIEW

The goal for this sprint to to create a “production ready” product. Dining court functionality is almost completely done and we will move the majority of our efforts onto the live map data. With our prototype map complete, we will have to add additional bus routes and functionality into the site. Only minor dining court user stories have been carried over from Sprint 2 - such as a calorie slider and redirect on registration). Routing is a large user story for mapping that was moved to the Backlog from Sprint 2.

The challenges for this sprint are predominantly on the Front-End side. While the backend will have their hands full with a suitable shortest path algorithm implementation, the frontend will have to be able to evenly distribute work among the four group members. Furthermore, they will have to be able to handle github merge conflicts and outdated files. Other than the shortest path algorithm, the backend will be focused on supporting the frontend by providing whatever tools and modifications are needed to get the features working. If there is time at the end of the sprint, we will work on the stylesheets and overall look for the page.

Scrums will be held during the original class times - Tuesday and Thursday starting at 3:00pm. The meetings will ideally be 10-15 minutes and led by James.

CURRENT SPRINT DETAILS

*Note: Identical tasks are listed again if they are relevant to multiple user stories.

Task Team	Team Members	Total Hours
Front-End	Yash, Sidhant, Apoorva, Michael	30.5
Services	Alex and James	11
Data Processing	Alex and James	16.5
*Note: Tasks are assigned to teams and members can choose what task they are working on. **Note: Team Members are free to choose their Task Team and can choose to change teams.		58

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1. **As a user, I would like to be able to find the shortest time to my destination. *From Sprint 2***

Team	Hours	Description
Front-End	2.5	The user receives walking directions to and from their start/end stops and also bus directions including transfers if applicable.
Services	5	Create a way to search for all possible transfers within one stop to reach the destination. Craft SQL query
Data Processing	15	Find the shortest possible path out of these searches.

Acceptance Criteria: User should be able to enter a start and end location and be shown a list of routes and transfers needed to get him/her there in the shortest possible time

2. **Users would like to be able to use the page without enabling unsafe scripts *From Sprint 2***

Team	Hours	Description
Server	0.5	Email CS department and cross fingers

Acceptance Criteria: Can user search / load page and see information without enabling unsafe scripts

3. **As a user, I would like to be able to click on a bus and see the upcoming stops**

Team	Hours	Description
Services	1	Make sure front end gets next stops on a route.

Acceptance Criteria: When the user selects a bus, do you get a list of the next few stops.

4. **As a user I would like to view a bus route of my choice.**

Team	Hours	Description
Front-End	3.5	Display a specific bus route based on user choice

Services	1	Make sure that we return all needed to Front-End

Acceptance Criteria: Users can filter bus routes on bus landing page. Live bus data is shown for routes that are selected

5. **As a user I would like to view all buses / bus routes.**

Team	Hours	Description
Front-End	6	Display all bus routes on the default bus landing page
Services	1	Make sure that the front-end gets all needed info

Acceptance Criteria: On default, the bus landing page displays all routes using live data. The routes can be filtered as per user story 14.

6. **As a user, I would like to be able to plan my trip in the future. *From Sprint 2***

Team	Hours	Description
Front-End	3	Display bus routes according to the planned trip.
Services	2	Create way to query static data to find best possible route at certain time
Data Processing	1	Return to front end via rest call in clean JSON format

Acceptance Criteria: User can enter starting location, intended destination, and starting time and routes will be returned based off of static / live data (depending on time). The routes will display on the map.

7. **As a user, I would like the find the closest bus stop**

Team	Hours	Description
Front-End	5	Create a bus page displaying all bus routes
Services	1	Make sure we are returning to the user all that they need

Acceptance Criteria: User can enter starting location and the closest bus stop will be returned

8. **As a user, I would like to find the closest bus stop on a specific route**

Team	Hours	Description
Front-End	5	Create a bus page displaying all bus routes
Services	1	Make sure that we are returning to the user all the info that they will need

Acceptance Criteria: User can enter starting location and intended route and closest stop will be returned

9. **As a user, I would like to be able to be logged in once I register an account**

Team	Hours	Description
Front-End	1	Re-route the user with the updated register endpoint

Acceptance Criteria: User can enter starting location and intended route and closest stop will be returned

10. **As a user, I would like to be able to dynamically change the calorie amount after searching. *From Sprint 2***

Team	Hours	Description
Front-End	3	Create a slider for the user to change amount when they search for calories. Filter the search based on calories on the front-end
Data Processing	.5	Update query handler to deal with this

Acceptance Criteria: User can enter starting location and intended route and closest stop will be returned

11. **As a user, I would like to be able to favorite items after searching**

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Team	Hours	Description
Front-End	1	Add a heart that sends a backend POST request to favorite / unfavorite.

Acceptance Criteria: User can favorite an item from the item card after searching

REMAINING BACKLOG

Backlog ID	Functional Requirements
1	As a user, I would like to be able to search for specific cuisines (food styles).
2	As a user, I would like to sort food items based on popularity, meal type and cuisine type.
3	As a user, I would like to be able to use location service to find the closest dining court.
4	As a user, I would like to have notifications sent to my phone about my favorite foods being served.
5	As a user, I would like to have a profile image.

Non- Functional

Backlog ID	Non-Functional Requirements
1	As a user, I would like to have a fast response time.
2	As a system admin, I would like to be able to scale the project up, if need be.
3	As a user, I would like to have access to this on Mobile.
4	As a developer, I would like to be able to add more APIs in the future.
5	As a developer, I want to be able to handle a large volume of traffic at any given point in time.

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6	As a developer, I want to have a secure properties file to store my passwords and other important information
7	As a user, I would like the page to be aesthetically pleasing. (CSS improvements plus flat UI design)