**What is your Sprint Goal?**

Our main goals for this sprint are to:

1. Develop our front-end/UI so that the user can interact with MapMe and modify the suggested route we return.
2. Revise our filtration algorithm to offer more relevant location suggestions for our route.
3. Consider time constraints inputted by the user and modify our route suggestion accordingly.

By the end of the sprint, we plan for our web application to have an aesthetic UI that accepts user input for location, radius, mode of transport, start and end times, and place types of interest. The route returned to the user should be optimized for the input provided, and waypoint suggestions should be relevant and highly rated. The waypoints should be displayed in a table format to the right of the route map. Furthermore, the user should be able to add in their own waypoints, and if they choose to do so, the route drawn and waypoints table should adapt accordingly.

These steps will add significant value to our product because they cover important pieces of the functionality we have in mind (e.g. making it so the user can modify our suggested output) and they will also improve the relevance of our current output (filtration algorithm returns). Completion of these tasks will also make it more satisfying and applicable on the user’s end since there will be a further developed UI and a method to input additional criteria like timing.

**Who is the Scrum Master for this Sprint?** Siddhant Porwal

**What tasks will you complete during this Sprint?**

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| Task | Owner | Estimated Time to Complete |
| Retrieving an Optimized Route Array of Ordered Points. This is because our map plots in order of what type of location was clicked first, so we will sort & optimize this. | **Rithani** | **20 minutes** |
| Embedding a radius input field to restrict landmarks to certain distances (currently this is hardcoded). | **Anna** | **50 minutes** |
| Creating a beautified timetable display on the map.html file to display selected waypoints with their names, addresses, and relevant features.  (on the right is a timetable vision with custom point integrated (see next goal for more context)) | **Anna** | **200 minutes** |
| Adding Custom Points (Front End) – Taking in user input for custom locations to visit and displaying that location into timetable and route display. | **Anusha/Siddhant** | **150 minutes** |
| Adding Custom Points (Back End) – With user input of custom location, reoptimizing new route and all associated calculations with this added stop. | **Rithani** | **15 minutes** |
| Filtration Algorithm Revision – Recalculating Optimized Points from Places service with new variables of review quantity and hours of operation. | **Anjali** | **200 minutes** |
| Dynamic updating – Being able to rerun MapMe without having to manually refresh after each itinerary is created. | **Anjali** | **200 minutes** |
| Location-based Itinerary – Enable live location button such that user does not need to explicitly type location. Benefit: This enables efficient use of MapMe on-the-go. | **Siddhant** | **100 minutes** |
| Time and Ride-based Itinerary – creating an input for a preferred trip start time, end time, and mode of transportation. | **Anna/Anusha** | **200 minutes** |
| Multi-Page Web App – creating separate page for only all inputs so that map & timetable can be calculated on button click and created on the map.html page. | **Anna/Anusha** | **50 – 200 minutes** |
| Come up with and develop algorithm to shortlist places based on time constraint (essentially, this will be the final route returned to the user). | **Siddhant/Rithani** | **250 minutes** |