**Research Questions:**

* How strongly the weather conditions effect bike trips?
* How does the time of day and the day of week relates to bike trips?
* How strongly or feebly the station locations play a role in bike trips? (plot a heat map to visualize)
* How do the local/national/international festivals/holidays impact the bike ride counts?
* How to optimize the bike availability across different region/time/count to maximize the bike trips?
* Is population density directly related to a bike trip count?
* If tourist areas have greater bike trips count?

**Project Timeline:**

|  |  |  |
| --- | --- | --- |
| **Task** | **Due Date** | **Comments** |
| Data Collection | Oct 6, 2016 | Collect datasets that could provide details for the above mentioned questions |
| Data Cleaning | Oct 13, 2016 | Find and fix errors / missing values / data corruption |
| Progress Tracker Meetings | Weekly Team Meetings | Weekly team meetings to overview the project progress |
| Data Analysis | Nov 13, 2016 | Perform analysis to answer the research questions. |
| Data visualization | Parallel to Data Analysis | Create research visualizations. |
| Project Report | Dec 14, 2016 | Prepare project report with proper explanation and analysis details. |

**Effort Allocation:**

All the members of the team will be working on all tasks but on separate research questions. We will be syncing up our work practice and learning over weekly meetings so everyone remains on same page.

**Target Audience:**

As the project is related to bike share that is open to the general public and is an offering from Capital Bikeshare, the target audience will be the two entities and other companies involved in a similar business.