## **Final Project**

|  |  |
| --- | --- |
| Project Title: | Muni Stop Shaming |

## **Team Members**

|  |
| --- |
| **Name** |
| Hilary |
| Matt |
| Turner |
| Laura |

## **Project 2 Weeks Timeline**

|  |  |
| --- | --- |
| Date | Subject |
| Saturday July 20 | Project Goal & Project Team |
| Saturday July 20 | Project Divisions: Frontend, Backend, Styling, Scrapping...etc. |
| Tuesday July 23 | Project Work |
| Thursday July 25 | Project Work |
| Saturday July 27 | Project Work, **Project Presentation Prep, & Mock Presentations** |
| Thursday August 1 | **Project Presentation** |

## **Team Effort**

Before anything, remember that Projects are a group effort: Working closely with your teammates is critical. This both helps teach real-world collaborative workflows and enables you to tackle more difficult problems than you'd be able to work alone.

In other words, working in groups allows you to work smart and dream big. Take advantage of it!

## **Logo Image**



## **Project Description**

Before you start writing any code, your group should outline the scope and purpose of your project. This helps provide direction and prevent [scope creep](https://en.wikipedia.org/wiki/Scope_creep).

Write this as a brief summary of your interests and intent, including:

* Problem / Motivation:

There is data available on the planned time for muni arrival at stops, as well as live information as to when the muni is supposed to arrive, but it’s difficult to plan in advance to see how likely the muni is to arrive ontime, or if late, how late?

* How it addresses the problem:

We intend to use the historical planned vs actual arrival times to examine the likelihood of ontime arrival (for a specific weekday, time of day, route and stop). In addition to providing some statistical information to the user (eg, in the last 3 months, trams arriving between 7am and8am on the N-Line, at stop number \_\_\_\_\_, have, on average been 10 minutes late, with 68% of trams arriving between 2 and 14 minutes late, and 95% of trams arriving within 18 minutes of the scheduled arrival time), we will compile this information into a shame score.

* Possible source for such data:

We intend to use the data from 511.org

## **User Stories**

|  |  |  |
| --- | --- | --- |
| As a <role>, | I want <feature> | so that <reason>. |
| user | to select a day of the week and time of day from a drop down menu |  |
| user | to visualize the routes on a map of SF |  |
| user | to see the name of the route when they over the route |  |
| user | to select a route by clicking on it |  |
| user | To hover over each stop and see quality score, and timliness data for that day and time of the week |  |
| user | Click on that stop to see all transport scheduled to arrive and estimated to arrive at that stop within 30 min of the selected time |  |

## **Preliminary drawings**

**APIs to be Used:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API # | API Base URL | Paraments (was this supposed to say parameters?) | What is it? | Successful Response? |
| 1 | 511.org | Stop, line and time data |  | Yes |
| 2 | Next bus |  |  |  |
| 3 |  |  |  |  |

**Libraries to be Used:**

|  |  |  |  |
| --- | --- | --- | --- |
| Library # | Doc Link | What does it do? | How did you use it? |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

**Packages Required:**

|  |  |  |  |
| --- | --- | --- | --- |
| Package # | Package Link | What does it do? | How did you use it? |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |

## **Rough Breakdown of Tasks**

**Matt:** creating the connection to pull muni data at specific increments throughout the day to compile the underlying data set of muni information

**Laura:** clean the data collected by Matt, and create machine learning model, spitting out results

**Hilary:** creating the map, and front end infrastructure, pull bus route and stop data from next bus API

**Turner:** deployment and polishing

## **Minimum viable product (MVP) Goals**

|  |  |  |
| --- | --- | --- |
| Task | Owner | Completed? |
| Connect to 511 API |  |  |
|  |  |  |
|  |  |  |

## **Stretch Goals**

|  |
| --- |
| Task |
| 1 |
| 2 |
| 3 |

**Models & Features:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model Name** | **Features/Attributes** |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**GET and POST Routes(Flask):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Resource** | **URL** | **HTTP Verb** | **Action** | **Used For** |
| Post (example) | /api/posts | GET | READ | Returning JSON data for ALL Posts |
|  |  |  |  |  |
|  |  |  |  |  |

**Handlebars(Y/N):**

* Yes
* No

**Migration Strategy:**

* Data.sql
* Schema.sql

## **How will you be using Git?**

|  |
| --- |
| Git Commit # |
|  |

## **Repo Link**

|  |
| --- |
| Repo URL |
|  |

## **Retrospective Notes (Due Date):**

**Team Reflection**:

* What Went Well
* What Did not go well
* What can **WE** improve for next time

**Team Member Feedback (directed at your team member(s))**:

* What Went Well
* What Did not go well
* What can **YOU** improve for next time

|  |
| --- |
| **Team Reflection & Team Member Feedback** Google Doc Link |
|  |

**Self-Reflection**:

* What Went Well
* What Did not go well
* What can **I** improve for next time?

|  |  |  |
| --- | --- | --- |
| **Self-Reflection** Link |  |  |
| Name |  |  |
| Name |  |  |
| Name |  |  |
| Name |  |  |

## 

## **Stuck time ( How long until you consult a teammate?):**

* 30 min?
* 1 hour?

## **Working Agreements:**

Examine these resources:

* <http://www.iliokb.com/2012/04/example-working-agreement.html>
* <http://www.payton-consulting.com/wp-content/uploads/2014/07/WorkingAgreements.jpg>

**EXAMPLE:**

During Sprint Do the Following:

* Team members attend daily stand ups @ 6:30pm (T,TH) 10am (sat)
* We will be expected to be working on Sun and M,W,F (is this true?)
* Should a team member have a conflict, s/he/they updates the slack team channel in advance of the meeting
* We believe in the value of planning collectively as a team
* Every Team Member is engaged and involved.
* Every Team Member is committed to the value of the application over individual recognition.
* Every Team Member will practice active listening
* Every Team Member will be directly engaged with the work - not answer texts or phone calls, social media, or other off-topic material (with the exception of emergencies -which will be communicated to the team)

|  |
| --- |
| **Your Team Working Agreements** |
| During Sprint Do The Following: |

## **Agile Stand-Ups:**

### For Data teams, the stand-up is like the team’s huddle. It’s even commonly known as the daily scrum and reinforces “we” to keep everyone aware of the team’s landscape and progress.

A stand-up is a daily meeting that involves the core team.

This meeting’s flavor is unique to each team, but commonly we use three simple questions to generate structure:

1. What did I work on yesterday?
2. What am I working on today?
3. What issues are blocking me?

These questions highlight progress and help flag team blockers. Also, it strengthens the team when everyone shares the progress they’re contributing to the team. The daily reinforcement of sharing individual successes and plans keeps everyone excited about the team’s overall progress.

## **Agile Playbacks:**

### 

Teams sometimes have a weekly/bi-weekly meeting called a "playback". This meeting allows team members to explain and demo completed features and the work they did during this past sprint. (normally a work week). Playbacks are important to keep project managers up to date, as well other team members to what has been accomplished during a sprint.

The playback format:

* + Tell your team what you worked on and how it went.
  + Show the progress you have made on your work.
  + Demo any finished work/features.

We encourage you to set up time for playbacks at the end of each sprint.

## **Notes:**