| 1. Sprint Plan | ning          | <br> | 2   |
|----------------|---------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 2. Sprint 2 Sp | rint Planning | <br> | 2   |
| 3. Sprint 3 Sp | rint Planning | <br> | . 3 |
| 4. Sprint 4 Sp | rint Planning | <br> | 4   |
| 5. Sprint 5 Sp | rint Planning | <br> | . 5 |
| 6. Sprint 6 Sp | rint Planning | <br> | 5   |
| 7. Sprint 7 Sp | rint Planning | <br> | 6   |

### **Sprint Planning**

20190122 : Sprint 1 Planning Meeting Minutes

Attendees: Tomas Ortega, Serge Metellus, Prof. Steven Luis, Dr Miguel Alonso, Team of graduate students.

Start time: 11:00am End time: 12:30pm

After discussion, the velocity of the team were estimated to be 50

Our goal for this sprint is to familiarize ourselves with the technologies that the team of graduate students used to get the data and crea te their data visualizations. We Also plan on creating a rough sketch of the user interface and decide on the technologies required for the implementation of the web application.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.

- · Tomas Ortega
  - WFMG-13 User Interface DONE
     WFMG-18 Create a template for organizing the graphs DONE
     WFMG-17 Create a Navigation Bar DONE
     WFMG-12 Display data as a line plot DONE
- Serge Metellus
  - WFMG-2 Display Distribution of data DONE
     WFMG-3 Filter data by time. DONE
     WFMG-4 Organize charts into columns to identify trends DONE

# **Sprint 2 Sprint Planning**

20190204 - Sprint 1 Planning Meeting Minutes

#### Attendees:

- Dev Team: Serge Metellus, Tomas Ortega
- Product Owners: Steven Luis, Miguel Alonso Jr.

· Team of graduate students

Start time: 11:00 AM End time: 12:00 PM

After discussion, the velocity of the team were estimated to be 50.

The goal for this sprint is to use the predictive model in the visualizations and finish the user stories from sprint 1

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.

<ul> <li>User Story</li> </ul>	WFMG-19 - Fare price visualization DONE
<ul> <li>User Story</li> </ul>	WFMG-2 - Display Distribution of data DONE
<ul> <li>User Story</li> </ul>	WFMG-3 - Filter data by time. DONE
<ul> <li>User Story</li> </ul>	WFMG-4 - Organize charts into columns to identify trends DONE

The team members indicated their willingness to work on the following user stories.

- Serge Metellus
  - WFMG-3 Filter data by time. DONE
  - WFMG-4 Organize charts into columns to identify trends DONE
- Tomas Ortega
  - WFMG-2 Display Distribution of data DONE
  - WFMC-19 Fare price visualization DONE

# **Sprint 3 Sprint Planning**

20190218 : Sprint 3 Planning Meeting Minutes

#### Attendees:

Dev Team: Serge Metellus, Tomas Ortega
Product Owners: Steven Luis, Miguel Alonso Jr.

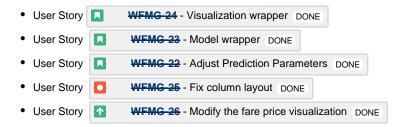
Team of graduate students

Start time: 11:00 AM End time: 12:00 PM

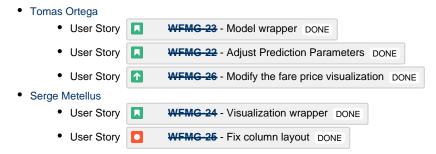
After discussion, the **velocity** of the team were estimated to be 52.

Goal: The goal for this sprint is to implement the necessary classes for the inference and visualization models and to include them in the view and controller of the application.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.



## **Sprint 4 Sprint Planning**

20190304 - Sprint 4 Planning Meeting Minutes

### Attendees:

Dev Team: Serge Metellus, Tomas OrtegaProduct Owners: Steven Luis, Miguel Alonso Jr.

• Team of graduate students

Start time: 2:30 PM End time: 3:30 PM

After discussion, the velocity of the team were estimated to be 59.

Goal: The goal for this sprint is to finish the visualization classes and start working on the data collection and being able to change the historical data by dragging the data points across the screen.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.

Serge Metellus

```
    User Story
    User Story
    WFMG-32 - Description of data files DONE
    Tomas Ortega
    User Story
    WFMG-33 - Movable points DONE
    User Story
    WFMG-34 - Drag Multiple Data Points DONE
```

## **Sprint 5 Sprint Planning**

20190318 - Sprint 5 Planning Meeting Minutes

#### Attendees:

Dev Team: Serge Metellus, Tomas Ortega
Product Owners: Steven Luis, Miguel Alonso Jr.

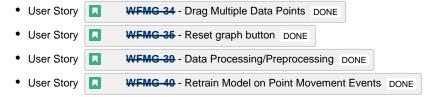
· Team of graduate students

Start time: 1:30 PM End time: 2:00 PM

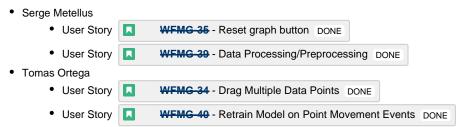
After discussion, the velocity of the team were estimated to be 47.

**Goal**: The goal for this sprint is to get the data science pipeline going. We are going to add data cleaning and pre-processing steps to the workflow manager application.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.



### **Sprint 6 Sprint Planning**

20190401 : Sprint 6 Planning Meeting Minutes

Attendees:

Dev Team: Serge Metellus, Tomas Ortega
 Product Owners: Steven Luis, Miguel Alonso Jr.

• Team of graduate students

Start time: 1:00 PM End time: 2:00 PM

After discussion, the velocity of the team were estimated to be 41.

Goal: The goal for this sprint is to implement the necessary classes for the inference and visualization models and to include them in the view and controller of the application.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.

· Serge Metellus

<ul> <li>User Story</li> </ul>	1	WFMG-44 - Fix Layout and Styling Issues DONE
<ul> <li>User Story</li> </ul>	1	WFMG-45 - User Interface Improvements DONE
Tomas Ortega		
<ul> <li>User Story</li> </ul>		WFMG-43 - Multivariate Time Series Analysis Model DONE
<ul> <li>User Story</li> </ul>		WFMG-41 - Random Forests Model DONE
<ul> <li>User Story</li> </ul>		WFMG-42 - Random Forest Visualization DONE

# **Sprint 7 Sprint Planning**

20190416 : Sprint 7 Planning Meeting Minutes

### Attendees:

Dev Team: Serge Metellus, Tomas OrtegaProduct Owners: Steven Luis, Miguel Alonso Jr.

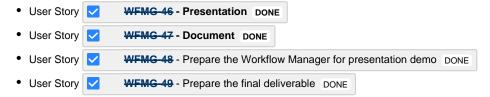
• Team of graduate students

Start time: 1:00 PM End time: 2:00 PM

After discussion, the velocity of the team was estimated to be 35.

Goal: The goal for this sprint is to complete all the required documentation for the final project and prepare for the presentation.

The product owner chose the following user stories to be done during the next sprint. They are ordered based on their priority.



The team members indicated their willingness to work on the following user stories.

Both team members will be contributing to all user stories