**Project Management**

**Summary:**

Agile process is the software development method we have used. We have divided the project plan into four increments where each increment included improvements in both back end and front end implementation from increment to increment. We have used ScrumDo for our project management and for maintaining the project artifacts. Our team consists of four member’s and the project development has been shared equally between all of us. In each phase two members used to work on back end and two members used to work on front end. And these will be swapped in successive increments.

The entire project scrum work and tasks can be viewed in the following link:

* [https://www.scrumdo.com/organization/umkc95/dashboard#](https://www.scrumdo.com/organization/umkc95/dashboard)​

The below are the tasks that has been scheduled in each of the increments:

**First Increment:**

1. This phase typically consisted of completion of project plan and finalizing the requirements of the project.
2. Here we also made an initial design of the application development.

**Second Increment:**

1. Designing the GUI, and hosting the data onto the HBase database.
2. Performing data analysis tasks which includes data classification.
3. Performing recommendation related tasks and parsing of the output retrieved.
4. Testing the entire application with different sets of data and performing bug fixing if found any.

**Third Increment:**

1. Completion of the basic GUI and required validations – Avani
2. Analyzing and implementing the web services– Ebenezer Anand Arapally
3. Data Classification based on the data available and retrieving the output from classification algorithms – Sai Kishore Bandaru
4. Investigating and implementation of HBase data transitions and detecting patterns for traced data from sensor tag – Laxman Dutt
5. Investigating on R and K-means clustering – Sai Kiran

**Fourth Increment:**

* Activity recognition for the rest of three hand movement’s – Avani Kapa
* Embedding the implementation for detecting the sensor tag attributes in Android application, on button click and performing certain unit tests– Sai Kishore Bandaru.
* Implementation of recommendation algorithms for each emotion – Sai Kiran Pasala
* Completing the entire GUI with necessary emotion pictures and with eased user interaction and performing certain unit tests – Laxman Dutt Degala
* Implementing the ssh code for transferring the test data to cloudera – Ebenezer Anand Arapally.

**Project Summary:**

The entire project summary is shown below with a graph, which reflects the process in project development in each iteration: