

# Team 4: Bi-Weekly Report 1

Project Title: PEACH Data Mining

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## Overview

Over the past 2 weeks, we have had a meeting with our client, Dr Navin Ramachandran, and discussed the project including the overall goals, and the needs of the users. We have since met up with the previous team working on the project to discuss the plan to progress and develop the system further. The project involves setting up a system to process large amounts of data, carry out data science techniques to the information to draw out patterns and trends and to provide a tool to visualise all the processed data.

## Meetings

### Initial Client Meeting - Friday 6 October 2017

We talked through the different components of the PEACH system, such as Apache NiFi, Apache Kafka, Elastic Stack, Kibana and IOTA. We discussed the previous team progress when working on this project and the results of the project.

### Meeting with Previous Team - Thursday 12 October 2017

We talked to the last year's team about their project and what they have achieved. We discussed the overall structure of the system down to how individual modules work.

### Numerous Meetings During and Outside of Lab Sessions

We worked on the HCI component of the module, and mostly looked into different ways to provide an effective data visualisation tool. Looking at various technologies including Kibana and custom frontends, we began to gather user feedback on different ideas.

## Completed Tasks

- Gathered user information about the project (Shadowing, interviews)
  - User consultation (questionnaire)
- Storyboard
- Personas
- Requirements
- Scenarios
- Read multiple HCI articles / books

# Problems to be Solved

- Setup the environment for development
- Install NiFi, Kafka and get the existing solution running

# Plan

- Create prototypes
  - Sketches, simple websites
- Install technologies on local / cloud
  - Test the setup from last year's team
  - Understand how the system works

# Individual Section

## Gavin Shek

Over the past two weeks, I have completed the requirements as well as carrying out user information gathering by targeting the relevant demographic of people.

## Saqib Jahangir

I have worked on the requirements for the project.

## David Stepanovs

I have worked on creating storyboards and personas.