# TEAM 10: Sprint 2 Planning Document
# PROJECT NAME: ScheduMate
## Project Coordinator: Adam D Rice

NIKHIL MEHTA
AISHWARYA AJAY
CHRISTOPHER HSIEH
ARITRA SAMANTA

# 1) Sprint 2 Overview

**Team Leader:** Nikhil Mehta
**Team Meeting:** 4:00pm - 5:30pm (Tuesday, Thursday)

Our main objectives for this sprint revolve around the following concepts:

1.  Updating and increasing usability of the application (from the user's perspective).
2.  Increasing functionality of the application by coming up with defined algorithms to add events to the user's schedule
3.  Show push notifications to the user as desired - the user can choose whether or not he/she wants push notifications to appear.
4.  Starting the map implementation to create a foundation for the next sprint; we intend to build on route options for a user walking to class.

The main challenges we feel will face in this sprint are:

1.  *Implementation of Google Maps*: The user should be able to get the fastest possible walking directions to the building where the class is scheduled.
2.  *Creating a scheduling algorithm*: A scheduling algorithm needs to be designed which will be used to send notifications to the user before the start of class and before the due date of the assignment.

# 2) Current Sprint Detail

1. **USER STORY:** As a student/user, I can quickly add homework assignments and exams as well as their due dates. I should be able to see my current schedule.

**1.1 TASK:** Create two classes to add exams and homeworks through which the user can enter his personalised schedule to the phone's internal database.

> **MEMBER ASSIGNED:** AISHWARYA AJAY
> **TIME ALLOTTED:** 15 hours

**1.2 TASK:** Create a class which displays the personalised examination schedule of the user. The user will be able to see a list of his examinations  along with the dates on which they are scheduled at any point of time.

> **MEMBER ASSIGNED:** AISHWARYA AJAY
> **TIME ALLOTTED:** 10 hours

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2. **USER STORY:** As a student/user, I can turn on and off push notifications.

**2.1 TASK:** Create a class which will read the database for the due date/time of the classes/events/homeworks/exams and send the user push notifications before the task is due. This will allow the user to keep track of his daily schedules and will constantly remind him of the due dates.

> **MEMBER ASSIGNED:** CHRISTOPHER HSIEH
> **TIME ALLOTTED:** 20 hours

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3. **USER STORY:** As a student/user, I should be able to receive alerts about upcoming classes and view a map to it, it will also provide a path to reach the building.

**3.1 Task:** To implement Google Maps UI and help the user to get to the desired location. For this a UI class will be created which will implement Google Maps.

> **MEMBER ASSIGNED:** Nikhil Mehta
> **TIME ALLOTTED:** 10 hours

**3.2 Task:** To implement the GPS navigation system using the Google Maps UI that will help the user find the shortest possible walking directions. The necessary algorithms required will be implemented in sync with the UI created by the other team member.

>    **MEMBER ASSIGNED:** Aritra Samanta.
>    **TIME ALLOTTED:** 10 hours

**3.3 Task:** To implement the scheduling algorithm and the necessary data structures. (INTERVAL TREE ALGORITHM AND TIME QUEUE).

>    **MEMBER ASSIGNED:** Aritra Samanta.
>    **TIME ALLOTTED:** 15 hours

**3.4 Task:** To implement the necessary algorithm in order to send push notifications in sync with the database and time.

>    **MEMBER ASSIGNED:** Nikhil Mehta
>    **TIME ALLOTTED:** 15 hours

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**4.**    **USER STORY:** As a student/user, I would like to use a clean interface that looks reasonably well.

**4.1 Task:**  Work on the user interface and the activities as they are made to create a modern clean look for the user.

>    **MEMBER ASSIGNED:** CHRISTOPHER HSIEH
>    **TIME ALLOTTED:** 5 hours

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**5.**    **USER STORY:** As a student/user, I should be able to receive alerts about upcoming classes and view a map to it, it will also provide a path to reach the building.

**4.1 Task:**  Currently the implementation of the alerts from sprint one only has alarms/toast notifications. Push notifications must be added to the reminder class.

>    **MEMBER ASSIGNED:** CHRISTOPHER HSIEH
>    **TIME ALLOTTED:** To be finished from Sprint 1

**6.**     **USER STORY:** As a student/user, I should be able to sign in to Google+ through this application instead of giving my credentials every time.

**5.1 Task:** Create a class called GoogleSignIn that allows the user to sign into Google+ through our application.

>    **MEMBER ASSIGNED:** Aishwarya Ajay
>    **TIME ALLOTTED:** To be finished from Sprint 1

# 3) Backlog
1.   As a student/user, I can view exam information after entering it.
2.   As a student/user, I can add, remove, or change the time intervals of reminders.
3.   As a student/user, I can turn on notifications for exams: remind me the day before, a week before, a month before, etc…
4.   As a student/user, I will be able to submit feedback to allow developers to fix/improve upon the application. (Completed)
5.   (If time allows) As a student/user, I can add things other than classes such as events, social activities, or club meetings.