**CS3716 Group 8**

**Development Plan: Feature Driven Development**

First Iteration (1-Week)

*Feature*:

* Creating availability schedules
* Login System
* Saving and loading of data
* Submit Request

*Classes*:

* Location
* TimeSlot
* Schedule
* ScheduleManager
* IOSys
* SaveMethod
* Login
* User
* RequestManager
* SpaceRequest

*Implementation Details*:

Location

Contains data about the location.

TimeSlot

Contains data about the time slot.

Schedule

Holds each location and all their available time slots inside a hash map.

ScheduleManager

Links to the GUI and creates the schedule based on user selection in the GUI.

GUI

Allows the user to select the locations and time slots to create the availability schedule.

Second Iteration (1-Week)

*Feature*:

* Allocate time slots to requesters
* Saving and loading data for allocation

*Classes*:

* AllocationManager
* AllocatedSlot
* IOSys(IOAllocatedSlot)
* SaveMethod
* Weekdays
* Semesters

*Implementation Details*:

AllocationManager

Links to the GUI and allocates time slots based on principal selection in the GUI.

AllocatedSlot

Contains data about the time slots requesters have requested.

Weekdays

Contains enums of week days. This class adds info for schedules and requests.

Semesters

Contains enums of semesters. This class adds info for schedules and requests.

IOSys

Implements separate loading and saving methods for Allocation.

GUI

Allows the user to select the time slots to allocate for corresponding requesters.