



IS480 Project Proposal IS480 Scheduling system

ThunderBolt
Version Number: 5.0
19 June 2013

Team Members:

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Faculty Supervisor:

- Professor Richard C. Davis

Sponsors:

Singapore Management University
School of Information Systems Management

- Benjamin Gan (benjamingan@smu.edu.sg) - IS480 Course Coordinator
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Project Overview

1.1 Project Description:

The present IS480 Wiki page provides a good collaborative environment, but it is inadequate for scheduling presentation slots due to a number of issues that usually arise. These are things like finding common time slots, informing stakeholders of changes, conflicting timeslots etc. Thus, our goal is to eliminate such problems by creating a website application with features which can sync outlook calendars of all stakeholders, send emails and SMS as reminders and adopt subscription, which would allow anyone to follow their team of interest and be kept updated

1.2 Motivation:

With FYP teams usually facing scheduling problems at least once in their stint, the scheduling system would reduce time and resolve conflicts amongst stakeholders. This would not only eradicate problems but also create a standardized scheduling process. In addition to this, we aim to provide a good user experience for all.

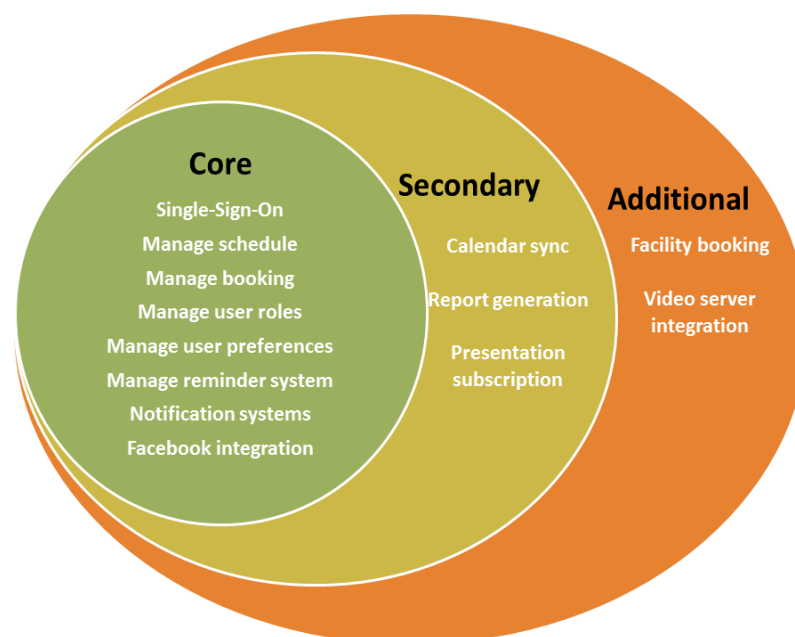
1.3 Stakeholders:

Sponsor	Prof. Gan and Ms. Fiona are the sponsors as this is a project initiated by the faculty
Key users	The key users of the system would be the professors (inclusive of reviewers and supervisors) and students of SIS (inclusive of TAs) who will use it for scheduling their presentation slots during their FYP. Other users include sponsors, judges and observers.

1.4 Deliverables:

The scheduling system website would enable the sponsor to do basic setups and maintain the scheduling process of all stakeholders for every academic term. As a result, the sponsor will find that communication amongst stakeholders will improve and because he is able to track each team's scheduling process, the sponsor can interact and identify certain problems with the scheduling early on. The scheduling system will be deployed using the Minimum Viable Product (MVP) strategy that has been recommended by our sponsor. This would involve getting the basic features working properly before including others mentioned in section 1.1. This would allow for constant user feedback, idea generation and data collection during various meetings with the sponsor and during User Acceptance Tests. Our group aims to deploy the scheduling system with all the features by the end of the term so that FYP teams can start using it beginning with the final presentation this semester.

1.5 Scope:



Please refer to our wiki for more details on our project scope:

[https://wiki.smu.edu.sg/is480/IS480 Team wiki: 2013T1 ThunderBolt Project Overview Scope](https://wiki.smu.edu.sg/is480/IS480%20Team%20wiki%202013T1%20ThunderBolt%20Project%20Overview%20Scope)

Project Plan

2.1 Project milestone

Milestone	Date	Goals/Functions
Project Proposal	20 June 2013	<ul style="list-style-type: none"> Proposal submitted for review
User Testing 1 (sponsors only)	27 August 2013	-
Acceptance	16 August 2013	<ul style="list-style-type: none"> Single-Sign-On Manage schedule Manage booking Notification systems – Email notification
User Testing 2 (all stakeholders)	6 September 2013	-
Mid Term	8 October 2013	<ul style="list-style-type: none"> Facebook integration Manage user roles Manage user preferences Notification systems – SMS notification Manage reminder system Calendar sync Report generation Presentation subscription
User Testing 3 (all stakeholders)	15 November 2013	-
Final	3 Dec 2013	<ul style="list-style-type: none"> Facility booking Video server integration Project submission Final presentation
Poster Day	5 December 2013	<ul style="list-style-type: none"> Poster showcase

Please refer to our wiki for more details on our project schedule:

[https://wiki.smu.edu.sg/is480/IS480_Team_wiki: 2013T1 ThunderBolt Project Management](https://wiki.smu.edu.sg/is480/IS480_Team_wiki:2013T1_ThunderBolt_Project_Management)

2.2 Risks

Risk	Description	Mitigation
Project Management	<ul style="list-style-type: none"> Our database is dependent on the IS480 Matching System project, leading to possible delays/complications during integration Change of requirements from sponsor 	<ul style="list-style-type: none"> Communicate with the other team regularly to ensure on-time delivery, escalate to sponsor if necessary Meeting will be held with sponsors on a routine basis to review requirements, so that any changes in request can be raised earlier
Technical	<ul style="list-style-type: none"> Integration with SMU's facility booking system will require prior approval from SMU IITS. 	<ul style="list-style-type: none"> Redirect users to book facilities on their own outside our application
Learning	<ul style="list-style-type: none"> Team is not familiar with calendar syncing protocols. Thus, there will be a steep learning curve 	<ul style="list-style-type: none"> Allocate more time to learn and explore these technologies

2.3 Resources and References

Some of the technologies (frameworks, languages, platforms, software etc.) we will be using are as follows:

- Framework:** Struts 2, Hibernate **Language:** Java, JavaScript, CSS **Libraries:** jQuery, Twitter Bootstrap **Template engine:** Apache Velocity **Database:** MySQL **IDE:** NetBeans **Version Control:** Git hosted on Bitbucket **Hardware:** Personal desktops/laptops, IS480 server

2.4 Learning outcomes

Please refer to the wiki page for our learning outcomes:

[https://wiki.smu.edu.sg/is480/IS480_Team_wiki: 2013T1 ThunderBolt Project Management Learning Outcomes](https://wiki.smu.edu.sg/is480/IS480_Team_wiki:2013T1_ThunderBolt_Project_Management_Learning_Outcomes)