SOFTWARE PROJECT MANAGEMENT PLAN

**(Group 4 – This template was taken from** <http://www.utdallas.edu/~chung/CS6354/CS6354_U07_source/Team_2/Software_Project_Management_Plan_v1.1.doc>**)**

# Introduction

1. **Overview**:

The online system will manage facility usage and events held at high schools throughout the country. All the unused facilities will be put into use throughout the country. This project aims at promoting usage through online marketing and management. All schools will be able to add events or rent their facilities when not in use. The primary focus of the new online system is to turn these facilities into money-makers for each school by facilitating registration and scheduling of events

The primary focus of the new online system is to turn these facilities into money-makers for each school by facilitating the registration for and scheduling of events when a given facility is not in use. It also has secondary goals of increasing and promoting participation in events along with accepting online donations to support events and facilities.

The system will also allow any person the ability to share “professional-looking” info related to an event or facility via popular social media platforms and also allow for information to be downloaded on events and/or facilities in PDF format.

**II. Project deliverables**

1. Preliminary project plan - 2/9/17
2. Project requirements - 2/16/17
3. Use cases and sequence diagrams - 2/23/17
4. Class and HLA diagram - 3/2/17
5. Repository setup - 3/16/17
6. Software Project Management Plan - 3/16/17
7. Status report presentation - 3/30/17
8. Incorporate requirements change - 3/30/17
9. Testing - 3/30/17
10. Code Review I -4-6-17
11. Code Review II - 4-13-17
12. Demo - 5-16-17
13. Final project - 5-16-17

**III. Evolution of this document**

The project is ongoing and updates should be expected in all sections. Below are some sections to watch for updates.

**Revision history (resubmission history)**

|  |  |  |  |
| --- | --- | --- | --- |
| **REVISION:** | **DATE:** | **UPDATED BY:** | **UPDATE COMMENTS:** |
| Requirements | 2-27-17 | Michelle | Incorporated client’s feedback |
| Use Case | 3-22-17 | Kevin | Incorporated client’s feedback |
| Sequence Diagrams | 3-22-17 | Kevin | Incorporated client’s feedback |
| Class Diagram | 4-4-17 | Tyler | Incorporated client’s feedback |
| SPMP | 4-5-17 | Michelle / Kevin | General Revisions |
| Requirements | 4-4-17 | Michelle | Incorporated requirement changes |
| Use Case/Sequence Diagram | 4-4-17 | Michelle | Incorporated requirement changes |

**IV. References**

i. Course PowerPoints

**V. Definitions, Acronyms, and Abbreviations**

i. SPMP - Software project management plan.

ii. DOE - Department of education

# 2. Project Organization

1. Process Model

We are going to use the spiral model process. This will allow us to break down the project into manageable pieces, identify any risks, develop and test code, and then plan the next part and repeat the process. This process allows us to test code at each point and will reduce the chance of having issues when the product is being deployed.

B. Organizational Structure

* Kevin Shultis
* Michelle Robinson
* Tyler Coleman
* Sean McCafferty
* Joseph Kamau
* Patrick Mugwanja
* Habib Drameh

C. Project Responsibilities

- Requirements: Entire Team

- Use Cases and Sequence Diagrams: Entire Team

- Class Diagram / HLA: Tyler / Sean

- Repo Setup: Kevin

- Management Plan: Entire Team

- Presentation: Michelle, Kevin, Sean, Habib,

- Tests: TBD

- Code Review Part 1: TBD

# 3. Managerial Process

1. **Management objectives and priorities**

The objective of this project is to create a facility usage website for high schools across the country within the allocated budget and time. The high priority requirements are: to be able to input unused facilities and their availability to the system, purchase tickets for events hosted in these facilities, and share these events on social media to promote them.

1. **Assumptions, Dependencies, and Constraints**

The project assumptions are as follows:

i. Team of 7 people

ii. Approval on funding

The project dependencies are as follows:

i. Availability of server and domain space

The project constraints are as follows:

i. Time

ii. Budget

1. **Risk Management**

i. Financial Risk - not enough funding

ii. Size Risk - project becomes too large. Break down into smaller pieces to make it easier to manage.

1. **Monitoring and Controlling Mechanisms**

i. Weekly project meetings

ii. Shared document repository

iii. Project tracking by management plan

# 4. Technical process

* 1. **Methods, tools, and techniques**  
      i. The project will be implemented by employ a spiral model process. Tools such as GitHub, LucidChart, Google Docs, and more will be used to complete the project. The team will create the project utilizing object oriented programing languages and methods.
  2. **Software documentation**
     1. Documentation such as project requirements, sequence diagrams, high level architecture diagrams, use cases, class diagrams, comment styles, testing plan, and implementation plan.
  3. **Project support functions** 
     1. All project support documents will be completed in applicable phases.

# 5. Work Elements and budget

i. The project is broken down into 4 main parts, Coding, database, server, and testing.

ii. Testing is the only part that is dependent upon the other parts

iii. Database, server, and coding can all happen simultaneously

Coding

* Building classes
* Testing
* Client program
* Syncing

Database

* Input of school information
* Maintaining
* Syncing to server

Server

* Finding an appropriate server
* Maintaining it
* Upload