# Delivery Project Plan

Project Name: Learning Management System
Created/Updated: Created 9/20/20
Project Lead: Kevin Cao

## *1.0 Purpose of Project*

Our project is a Learning Management System implemented as a web app. We are aiming to create an application that allows instructors and students to interface, allowing for completion of assignments and grading of work.

## *2.0 Objectives & Deliverables*

| **Objectives**<br>To accomplish this goal, the following will be done: | **Deliverables**<br>The following will be delivered as a result of accomplishing this objective. *Where possible, tie deliverables to objectives.* |
|---|---|
| Login and Registration | ❑ Unique ID for each user<br>❑ Encrypt password and store it in a database<br>❑ OAuth sign in with Google, Facebook<br>❑ Password Reset/Recovery feature<br>o Security Questions<br>o Reset password link<br>o OTP through email, text message, 3rd party OTP provider (eg. Duo)<br>❑ Duo authentication for additional security |
| Dashboard | ❑ Students can view upcoming assignments and corresponding due dates.<br>❑ Students can view the announcements made.<br>❑ Calendar view to display weekly timetable for students and instructors.<br>❑ Instructors can view details of all the courses taught by them.<br>❑ Instructors can make announcements.<br>❑ Admins can view details about all the courses and corresponding instructors.<br>❑ Admin will have access to approve and manage the content being uploaded |

| | |
|---|---|
| Search | ❑ Students and instructors should be able to search for assignments, announcements, modules, etc.<br>❑ This should include filtered search and sorting searched results based on various parameters. |
| Chat | ❑ Students should be able to chat with fellow students as well as the instructors.<br>❑ They should be able to view the member activity status (Online/ Offline) and message status (Delivered, Read, Typing, etc)<br>❑ This feature should include private as well as group chat. |
| Submissions & Grading | ❑ Instructors can create assignments and upload multimedia files as a part of the course content and assignments.<br>❑ Students should be able to submit assignments and the following four submission types should be allowed: uploading a file, submitting a text entry, entering a website URL, or submitting media.<br>❑ Instructors should be able to download the submissions and grade students. |

## *2.5 Scope Control*

*Complete the following aspects of scope that further define this project.*

| In Scope | Out of Scope | Uncertain |
|---|---|---|
| Web application | Mobile application | Third-party Apps (Piazza, etc.) |
| Front-End: HTML/CSS/JQuery | FERPA Legality | Browser plugins |
| Back-End: Java/PHP | Standalone application | |
| Database: SQL | | |

Areas in which to define the scope of the project include:

a) Business functions and processes
b) Systems with which this project will interface
c) Interdependencies with other projects
d) Interdependencies with other groups (internal/external)
e). Technology expected to be deployed by this project (software, hardware, infrastructure, communication).

## *3.0 Approach*

- System will be built in house, with the only possible exception being login OAuth.
- Each objective will be completed by the end of a 2-week sprint
- Technology will be decided by end of first week
- If the group is unable to understand the technology by the middle of the first sprint, move to a new technology.

## *3.5 Time Line*

| Milestone / Deliverable | Completion Date |
|---|---|
| Sprint 1 : Login Page, Setup of backend and frontend | 10/4 |
| Sprint 2 : Dashboard | 10/18 |
| Sprint 3 : Submissions and Grading | 11/01 |
| Sprint 4 : Chat | 11/15 |
| Sprint 5 : Search & Additional Features | 12/6 |

## *4.0 Stakeholder Roles & Responsibilities*

| Project Role | Who | Project Responsibilities | % Time |
|---|---|---|---|
| **Sponsor** | Disha Talreja | ❑ Attend weekly meetings with team<br>❑ Ensure team is fulfilling deliverables | |
| **Project Manager** | Kevin Cao | ❑ Coordinate meeting times | |
| **Project Team** | Andrew Jedlicka | ❑ Implementation<br>❑ Sprint manager | 25 |
| | Kevin Cao | ❑ Implementation<br>❑ Sprint manager | 25 |
| | Shaun Trimm | ❑ Implementation<br>❑ Sprint manager | 25 |
| | Blake Miller | ❑ Implementation<br>❑ Sprint manager | 25 |
| | | ❑ | |
| **Others** | Aravind Tamalingam | ❑ Secondary sponsor<br>❑ Attend weekly meetings with team<br>❑ Assist primary sponsor with outlining customer expectations for team | |
| | Adeel Bhutta | ❑ General sponsor | |

| | | | |
|---|---|---|---|
| | | ❑ Attend mid-semester meeting with team<br>❑ View and assess elevator pitches | |

## *4.5 Communication Plan*

*How will key stakeholders be kept involved/informed about the project status?*

| What | Who (is involved/receives) | Frequency |
|---|---|---|
| Team Meetings | Project team | Weekly |
| Meetings with Sponsor | Project team, sponsor | Weekly |
| Written Status Reports | Project team, sponsor | Weekly |
| Other Forms of Communication | Project Team | Daily |

## *5.0 Project Budget*

| | Initial Cost | Recurring Cost |
|---|---|---|
| ***People*** | | |
| ▪ Staffing | $0 | $0 |
| ▪ Consultants | $0 | $0 |
| ▪ Training/Documentation | $0 / 2 weeks | $0 / 0 |
| ***System*** | | |
| ▪ Hardware | $0 | $0 |
| ▪ Software | $0 | $0 |

## *6.0 Risk Plan*

*Define key risks such as assumptions, dependencies, and constraints and a planned response for each.*

| Risk Factor | Impact On Project | Risk* Rating | Risk Plan or Mitigation Strategy | Person Responsible | In Place By |
|---|---|---|---|---|---|
| Language Acquisition Difficulties | H | M | ❑ Re-adapt by choosing a different framework to use.<br>❑ Commit more time to online learning resources. | Project leader | 10/4 |
| Integration Difficulties | H | M | ❑ Re-adapt by choosing a different framework to use.<br>❑ Commit more time to online learning resources. | Project leader | n/a |

| | | | | | |
|---|---|---|---|---|---|
| Teammate Dropping Out | H | M | ❑ Re-distribute responsibilities. | Project leader | 10/25 |
| Over-Optimistic Timeline | M | M | ❑ Re-evaluate priorities.<br>❑ Temper expectations for milestone progress. | Project leader | n/a |

***Rating = Probability that the risk will happen (H,M,L) x the Severity of the Impact if it does (H,M,L).***

**HxH = H** **HxM = H** **HxL = M** **MxL = M**

## *7.0 Assumptions*

*This plan is based on the following assumptions (about resources, policies, schedules, technologies, etc.):*

- ❑ All team members available to work roughly the same amount each week
- ❑ Consistent customer demands in-line with deliverables
- ❑ End-date of the timeline is strict, with no compromises.

## *8.0 Success Criteria*

*How we know we are successful. How to measure success:*

- ❑ Sponsor is satisfied with end product
- ❑ All deliverables completed
- ❑ Sprint tasks completed on time

*Measuring success after each sprint:*

- ❑ Deliverable for sprint is completed.
- ❑ Keeping up with the sprint timeline.
- ❑ Sponsor is satisfied with current progress during weekly meetings.

## *References*

*List documents where more detailed information about this project can be found.*