Miguel Medrano, Akash Krishnan, Harini Suresh, Tiffany Wong 11/11/2014 6.170 Final Project Flipper Teamwork Plan

Stakeholders

1. Teachers

 Teachers will use our application to implement the flipped classroom model. They will link Youtube videos for students to watch and create multiple choice questions. They will also use aggregated student data to understand class performance

2. Parents

 Parents will use the application to keep track of their child's progress and assigned homework

3. Students

 Students will use the application to watch assigned videos and complete assigned questions

Tasks

Tasks, Expected Effort, Allocation to Team Members and Calendar

Tasks	Assigned To	Expected time (hrs)	Deadline
Revised Design	All	4	Thu, Nov 19, 11pm
Overview	Tiffany	1/2	Thu, Nov 19, 11pm
Concepts	Tiffany	1/2	Thu, Nov 19, 11pm
Data model	All/Akash (write-up)	1	Thu, Nov 19, 11pm
Security	Akash	1/2	Thu, Nov 19, 11pm
User Interface	All/Harini (write-up)	1	Thu, Nov 19, 11pm
Challenges	Miguel	1/2	Thu, Nov 19, 11pm
MVP implementation	All	38	Mon, Nov 23, 11pm
User Model	Akash	2	Mon, Nov 16

		1	
Class Model	Harini	2	Mon, Nov 16
Minilesson Model	Miguel	2	Mon, Nov 16
PageObject Model	Miguel	2	Mon, Nov 16
Submission Model	Akash	2	Mon, Nov 16
Grade Model	Tiffany	2	Mon, Nov 16
Login & Signup Route	Akash	2	Mon, Nov 16
Course List Page Route	Harini	2	Mon, Nov 16
Course Page Route	Harini	2	Mon, Nov 16
Login & Signup View	Akash	2	Wed, Nov 18
Course List Page View	Tiffany	2	Wed, Nov 18
Course Page View	Tiffany	2	Wed, Nov 18
Gradebook Page View	Tiffany	2	Wed, Nov 18
MiniLesson subview	Miguel	2	Wed, Nov 18
User Controller	Akash	2	Fri, Nov 20
Class Controller	Harini	2	Fri, Nov 20
Minilesson Controller	Miguel	2	Fri, Nov 20
PageObject Controller	Miguel	2	Fri, Nov 20
Submission Controller	Akash	2	Fri, Nov 20
Reflections (MVP)	All	1	Tue, Nov 24 11pm
Reflections (Final)	All	1	Mon, Dec 7 11pm
Final Implementation	All	8	Mon, Dec 7 In class
Parent View	Harini/Tiffany	2	Mon, Dec 7 In class
Curriculum Model	Akash	3	Mon, Dec 7 In class
Final CSS/UI/UX	Miguel	3	Mon, Dec 7 In class

Risks (and Mitigations)

Student doesn't watch video	Track video views	
Student randomly selects solutions	Red flags	
YouTube video unavailable/removed	Check before page load	
Platform doesn't attract users	Hold product info session; free trial	

Minimum Viable Product

Identification of minimum viable product for first release

Our MVP will contain:

- 1) Registration of users that can be Teachers and/or Students of different classes
- 2) Functionality for Teachers
 - a) Create classes and accept Students
 - b) Add lessons to classes, which include adding
 - i) YouTube video links
 - ii) MCQ's
 - c) View grades for students in class
 - i) as a summary across all students in a class
 - ii) for an individual student
- 3) Functionality for Students
 - a) View lessons for their classes
 - b) Watch videos
 - c) Submit answers to MCQs
 - d) View their grades on submissions

Subset of concepts to be included

The concepts we will include are:

- 1) Teacher
- 2) Student
- 3) Minilesson
- 4) Page
- 5) PageObj
- 6) Video
- 7) MCQ
- 8) Question

- 9) Answer Choice
- 10) Submission

Issues postponed (e.g. security mitigations, user interface elements)

- 1) Different curriculums for subjects
- 2) Markers for minilesson videos
- 3) Parent view
- 4) Expanded analytics for teachers
- 5) Finalizing and refining CSS and UI themes
- 6) CSRF mitigation
- 7) Verifying teachers

Our MVP includes almost all our concepts except for the concept of a subject & curriculum. There are just a few additional functionalities, such as the ability for students to add markers to specific timepoints on videos, detailed analytics for teachers, and a parent login option, that we will also delay past the MVP. The MVP contains all the core functionality needed for a user to gain value from the product, and will provide a good base to build additional features.