



Team 10 - Sprint 2 Planning Document

Jacob Brabec, Shane DeWael, Matthew Ess, Jay Hankins, Ankit Patanaik, Kedar Vaidya

Sprint Overview

During this sprint we hope to get the main features of our platform up and running. The frontend team will be creating a responsive design for the website as well as creating an interface for our core features (grades, message boards, assignments, announcements, etc...). The backend team will focus on creating the controller and database logic to handle these features.

Scrum Master: Kedar Vaidya

Meeting Plan: Tuesdays/Thursdays during CS 307 block (1:30 pm - 2:45 pm)

Risks and Challenges: There is a significant amount of work to be completed during this sprint, so it will be easy to fall behind and put ourselves at a disadvantage for sprint 3. One issue that the frontend team faces is being able to effectively test the UI on devices of all resolutions and sizes. Since usability is one of our main goals for this project, it is extremely important to ensure quality across all devices. It will also be important for the backend team to write and maintain quality API documentation. Since the frontend relies on this API documentation, it is important for the backend to ensure the document is kept up to date.

Current Sprint Detail

User Story #1

As a student, I would like to be able to view my grades.

#	Description	Time	Team	Owner
1	Create Eloquent relations for Grades	3	Back	Jake
2	Create Eloquent relations for Grade Categories	3	Back	Jake
3	Write API controller logic for Grade management	3	Back	Jake
4	Create grades page for students to see grades	5	Front	Shane
5	Create grade page filtering/sorting logic	5	Front	Shane

Acceptance Criteria:

- Given that the grade management controller is successfully implemented, when a student goes to access their grades, they should be able to view their grades.
- Given the eloquent relations for Grades & categories are working, when a query is made for a grade, the grade and its category should be returned
- Given the grades page is finished, when an instructor views the page they should be able to see additional information

User Story #2

As a student, I would like to be able to take quizzes.

#	Description	Time	Team	Owner
1	Create Eloquent relations for Quizzes	3	Back	Kedar
2	Write API controller logic for Quiz management	5	Back	Kedar
3	Connect Quiz result data to Grades	3	Back	Kedar
4	Create a secure quiz submission system	6	Back	Kedar
5	Create quiz-taking system for frontend	10	Front	Jay

Acceptance Criteria:

- Given that the quiz controller is successfully implemented, when students take quizzes, the grades should be automatically stored and uploaded without any extra effort.
- Given the quiz-taking system is successfully implemented, when students take a quiz, they should be able to select answers to multiple-choice questions.
- Given the quiz has been submitted, when the students try to retake the quiz, they should not be allowed to.
- Given the quiz controller is designed properly, when a request for the quiz data is made, the solutions to the quiz should be removed from the response before being sent to the frontend.

User Story #3

As a user, I would like to be able to easily navigate to any course page.

#	Description	Time	Team	Owner
1	Create course navigation system	10	Front	Jay
2	Create main sidebar with course navigation	6	Front	Jay

Acceptance Criteria:

- Given that the main landing page is implemented, when a student logs in, they should be presented with a summary of upcoming deadlines.
- Given the navigation system is implemented, when a student wants to change courses, they can quickly do so from anywhere on the website.
- Given the navigation sidebar is implemented, when a student is on any page of the site, they should see a list of active classes on the sidebar.

User Story #4

As a student, I would like to be able to easily view course content.

#	Description	Time	Team	Owner
1	Create additional routes to allow for easier way to fetch courses	5	Back	Ankit
2	Create views for assignments	5	Front	Matt
3	Create views for quizzes	5	Front	Matt
4	Create views for announcements	5	Front	Matt
5	Create navigation between these views	5	Front	Matt
6	Create a summary view to display upcoming deadlines	5	Front	Matt

Acceptance Criteria:

- Given the course view is implemented, when a student visits a course page, they should be able to navigate to any course material they need (e.g. Quizzes, Assignments, Calendar, etc...)
- Given the summary system is working, when a student views a course home page, they should be able to see a list of recent announcements and upcoming deadlines for that course
- Given the various in-course views are working, when a student visits any of the course pages, they should be able to quickly move to any other in-course view

User Story #5

As a user, I would like to be able to easily access Mango across all of my devices.

#	Description	Time	Team	Owner
---	-------------	------	------	-------

1	Integrate responsive CSS framework into existing pages	10	Front	Shane
2	Create responsive interface for all site pages	10	Front	Shane
3	Create navigation structure for mobile devices	5	Front	Matt

Acceptance Criteria:

- Given the frontend has been integrated with a responsive CSS framework, when the user resizes their page, the layout of the content should change to fit the new size
- Given the frontend has been integrated with a responsive CSS framework, when the user accesses a page on a mobile device, the layout of the content should change to fit the device
- Given the frontend has been integrated with a responsive CSS framework, when the user accesses a page on a mobile device, the sidebar contents should be moved into a mobile version of the menu.

User Story #6

As a student, I would like to be able to ask questions and respond to others on a course messaging board.

#	Description	Time	Team	Owner
1	Create database migrations for messaging board	3	Back	Jake
2	Create Eloquent relations for Posts, Replies, Likes	5	Back	Jake
3	Create system for thread create/edit/delete	8	Back	Kedar
4	Create system for reply create/edit/delete	8	Back	Kedar
5	Create system to allow for "nested" replies.	7	Back	Kedar
6	Create system to manage upvotes/likes	5	Back	Kedar
7	Create frontend view for messaging board	10	Front	Shane
8	Set up markdown rendering on posts/replies	3	Front	Jay
9	Set up rendering for nested replies	5	Front	Jay
10	Set up post creation page	4	Front	Jay
11	Set up post preview system	5	Front	Jay
12	Create post filtering/search system	5	Front	Matt

Acceptance Criteria:

- Given the post controller is successfully implemented, when students access the discussion board, they should be able to view or create posts.
- Given the post system is working, when other students view a post, they should be able to reply to a post. This feature should account for nested replies.
- Given the markdown rendering system is set up, when a student views a post, the post content will be rendered in the markdown engine.

- Given the markdown rendering system is set up, when a student creates a post, they should be able to add markdown elements and see a preview of the rendered content.

User Story #7

As an instructor, I would like to be able to respond to student questions on a course messaging board.

#	Description	Time	Team	Owner
1	Create controller logic to allow for locked/sticky threads	7	Back	Ankit
2	Update thread controllers to handle locked threads	5	Back	Ankit
3	Create instructor view for messaging board	3	Front	Jay
4	Display special post icon for instructor posts	2	Front	Matt

Acceptance Criteria:

- Given the instructor view is working correctly, when instructors view existing posts, they should have a set of extra administrative functions that they can perform.
- Given the instructor features are implemented, when the instructor locks a thread, no additional replies should be allowed
- Given the instructor features are implemented, when the instructor “stickies” a thread, that thread will be moved at the top of the list.
- Given the instructor features are implemented, when the instructor makes a post, the post will be marked with a special icon or color to indicate it is an instructor post.

User Story #8

As an instructor, I would like to be able to assign grades.

#	Description	Time	Team	Owner
1	Create controller logic for grade creation	5	Back	Jake
2	Create controller logic for grade updates	3	Back	Jake
2	Create grade input page for instructors	4	Front	Kedar
3	Create filtering/search logic for grades	3	Front	Kedar

Acceptance Criteria:

- Given the API logic for grade creation is working, when the server receives an authorized request to set a grade, the grade will be set and the user will be notified
- Given the API logic for grade updating is working, when the server receives an authorized request to update a grade, the grade will be updated and the user may be notified depending on their settings
- Given that the grade assignment page is implemented, when an instructor wants to grade an assignment, they should be able edit grades for every student on the same page.

User Story #9

As an instructor, I would like to be able to create quizzes.

#	Description	Time	Team	Owner
1	Create controller logic for quiz creation/editing	5	Back	Ankit
2	Create system to allow for quiz question management	10	Back	Ankit
3	Remove quiz answers from data before sending to client	3	Back	Ankit
4	Create quiz-creation page	5	Front	Matt
5	Create question-creation system for frontend	10	Front	Jay

Acceptance Criteria:

- Given the quiz-creation system is working, when an instructor creates a quiz, they can select a due date and set other options
- Given the quiz-creation system is working, when an instructor creates a quiz question, they can write the question and provide several multiple choice options
- Given the quiz-creation system is working, when an instructor creates a quiz question, they must mark one of the options as correct.

User Story #10

As an instructor, I would like to be able to create weighted sections for grading.

#	Description	Time	Team	Owner
1	Write API controller logic for Grade Category management	5	Back	Jake
2	Create system to calculate averages using weighted categories	3	Back	Jake
3	Create grade category input page for instructors	5	Front	Matt

Acceptance Criteria:

- Given the grade category page is implemented, when an instructor visits the grade category page, they should be able to create or delete categories.
- Given the grade category page is implemented, when an instructor visits an assignment page, they should be able to move the assignment into a category.
- Given the grade category controller is implemented, when the server receives a request to update a grade category weight, the students for that section will be notified.

Remaining Backlog (17/28 Stories Complete)

1. As a user, I would like to be able to register for a Mango account.
2. As a user, I would like to be able to login and manage my Mango account.
3. As a user, I would like my password to be reset if I forget it.
4. As a user, I would like to be able to easily navigate to any course page.
5. As a user, I would like to be able to easily access Mango across all of my devices.
6. As a student, I would like to be able to view my grades.
7. As a student, I would like to be able to take quizzes.
8. As a student, I would like to be able to submit files for grading.
9. As a student, I would like to be able to view my courses.
10. As a student, I would like to be able to easily view course content.
11. As a student, I would like to be able to ask questions and respond to others on a course messaging board.
12. As a student, I would like answer instant polls during class.
13. As a student, I would like to be able to easily view and analyze my instant poll results.
14. As a student, I would like to receive notifications for grades.
15. As a student, I would like to be able to receive email notifications for course announcements.
16. As a student, I would like to be able to view and export my course calendar.
17. As an instructor, I would like to be able to create and manage a course.
18. As an instructor, I would like to be able to assign grades.
19. As an instructor, I would like to be able to create weighted sections for grading.
20. As an instructor, I would like to be able to create quizzes.
21. As an instructor, I would like to be able to receive file submissions from students.
22. As an instructor, I would like to be able to create announcements for my course.
23. As an instructor, I would like to be able to respond to student questions on a course messaging board.
24. As an instructor, I would like to be able to create instant polls for students to answer.
25. As an instructor, I would like to be able to easily view and analyze instant poll answers.
26. As an instructor, I would like to be able to post generic course content (plain text, embedded videos).
27. As an instructor, I would like to be able to add events to my course calendar.
28. As an instructor, I would like to be able to view and export my course calendar.