Gaurav Srivastava • Naveen Ganessin • **Alex Rosenberg** • Michael Schloss

ABC

Sprint 3 Plan

TEAM MEMBERS

Gaurav Srivastava   — srivast6@purdue.edu
Naveen Ganessin   — nganessi@purdue.edu
Alex Rosenberg   — rosenbea@purdue.edu
Michael Schloss   — mschlos@purdue.edu

SPRINT OVERVIEW

The primary focus of this sprint is to work on the assignments component of the application. This part of the system includes the `Assignment`, `FileAssignment`, `QuizAssignment`, and `Question` object classes, as well as their respective JSON translation classes and database code. For UI, this includes implementing the student portion of the application. We also intend to finish any remaining portions of code that need to be finished from the last sprint:

UI   — Implementing error messages into failures, implementing students viewing announcements, fixing cross-package communication issues

JSON   — Finishing GradeQuery, AnnouncementQuery, and InstructorQuery, and implementing AssignmentQuery and

Database   — Add methods to query the database to implement the different types of assignments

Objects   — Add and implement the `Assignment`, `FileAssignment`, `QuizAssignment`, and `Question` objects with their respective APIs

Michael Schloss is the SCRUM master. We will be meeting on Mondays from 10:30 AM to Noon. If necessary, we will meet on Wednesdays (at the same time) to finish up any documents.

There are few risks during this Sprint. As this is another big Sprint, with some leftovers from the previous time will be a major constraint. That is perhaps our biggest risk. Another risk, which we've recently discovered, is integration incompatibilities. Unit tests pass with near perfect result, however integration tests have roughly a 33% success rate. Due to this risk, we will be paying extra attention to guaranteeing cross package communication functions as much as possible.

CURRENT SPRINT DETAIL

Backlog ID: 7
User Story: As an Instructor, I can add/delete assignments, quizzes, and tests.

Task Description	Expected Hours	Owner
Create the `Question` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	10	**Alex Rosenberg**
Create the `QuizAssignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	10	**Alex Rosenberg**
Create the `Assignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	15	**Alex Rosenberg**
Modify `InstructorQuery` and `AssignmentQuery` to include functionality to add and remove assignments for instructor	10	**Naveen Ganessin**
Design dialog prompts for modifying assignments, quizzes, and tests	2	**Michael Schloss**
Design dialog prompts for adding/deleting assignments, quizzes, and tests	10	**Michael Schloss**
Implement UI for viewing assignments, quizzes, and tests	2	**Michael Schloss**

ACCEPTANCE CRITERIA
- As an instructor, if I have an assignment I want students to submit a file for, I expect to be able to create it
- As an instructor, if I have a quiz I want students to take, I expect to be able to create it
- As an instructor, if I have a test I want students to take, I expect to be able to create it
- As an instructor, if I have an assignment I want to remove, I expect to be able to delete it
- As an instructor, if I have a quiz I want to remove, I expect to be able to delete it
- As an instructor, if I have a test I want to remove, I expect to be able to delete it

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Backlog ID: 8
User Story: As an instructor, I can view file submissions from students.

Task Description	Expected Hours	Owner
Create the `FileAssignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	5	**Alex Rosenberg**
Continue to work on the `Assignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	5	**Alex Rosenberg**
Test `getAssignments(_:)` functionality for `InstructorQuery` and fix bugs	5	**Naveen Ganessin**
Implement methods and UI for clicking on submissions and downloading them to instructors computer	5	**Michael Schloss**
Implement UI under assignments showing a table of student submissions for each assignment	7	**Michael Schloss**

ACCEPTANCE CRITERIA
- As an instructor, if I have an assignment students submitted a file for, I should be able to download and view these
- As an instructor, if a student did not submit a file for an assignment, I should not see them in the list of submitted files
- As an instructor, if a student did submit a file for an assignment, I should see them in the list of submitted files

Backlog ID: 9

User Story: As an Instructor, I can set time-limits on assignments, quizzes, and tests.

Task Description	Expected Hours	Owner
Modify the assignment table in the db to set time limits	2	**Gaurav Srivastava**
Continue to work on the `Assignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	2	**Alex Rosenberg**
Handle return data and JSON translation for time-limited setting and success/failure handling upon handling	6	**Naveen Ganessin**
Implement methods to enforce any time limits / due-dates	4	**Michael Schloss**
Expand UI for creating assignments, quizzes, and tests to input a due date and/or time-limit	3	**Michael Schloss**

ACCEPTANCE CRITERIA

- As an instructor, I expect to be able to set time-limits on quizzes and tests
- As an instructor, I expect to be able to set due dates on assignments
- As an instructor, I expect to not be asked to set a due date or time limit on regular content

Backlog ID: 15

User Story: As an Instructor, I can submit students' grades for assignments, quizzes, and tests.

Task Description	Expected Hours	Owner
Continue to work on the `Assignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	2	**Alex Rosenberg**
Modify `GradeQuery` and `AssignmentQuery` to handle submitting of grades for assignments, quizzes and tests and handling success responses from server	7	**Naveen Ganessin**
Expand Grades UI under instructors to allow for arbitrary assignments that are not submitted to ABC	4	**Michael Schloss**
Implement grades UI under each student submission to an assignment to allow instructors to input a grade	7	**Michael Schloss**

ACCEPTANCE CRITERIA

- As an instructor, I expect to be able to enter grades on submitted files for assignments and have them recorded correctly
- As an instructor, I expect to be able to enter a grade for an assignment that was not submitted through ABC
- As an instructor, I should not be asked to input grades I've already inputted
- As an instructor, I expect to be able to modify any incorrect grades

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Backlog ID: 18
User Story: As an Instructor, I should be able to generate a random text for students to enter on their account for attendance.
//Optional user story. This will only be implemented if time permits.

Task Description	Expected Hours	Owner
Randomly generate a string for a class and store in database	**10**	**Gaurav Srivastava**
Method to enable and disable attendance for a course in the database	**10**	**Gaurav Srivastava**
Add a dialogue to allow instructors to enter text that students must enter	**2**	**Michael Schloss**

ACCEPTANCE CRITERIA
- As an instructor, I expect to be able to either input text into a text box or have that text randomly generated for me.
- As an instructor, I expect ABC to remember this text and prompt each student for the response
- As an instructor, I expect students to be able to input text just a little bit wrong and still have it count

Backlog ID: 21
User Story: As a Student, I can see their grades from every class to which they're enrolled.

Task Description	Expected Hours	Owner
Handle return data and translate for UI in student Grade Objects	**15**	**Naveen Ganessin**
Implement course specific grades UI for students that allows them to see detail for each course	**7**	**Michael Schloss**
Implement student overall grades UI that gives overview on grades	**5**	**Michael Schloss**

ACCEPTANCE CRITERIA
- As a student, I expect to be able to see my overall grades in one view, and specific grades under each class
- As a student, I should not see grades that are not my own
- As a student, I should not see grades for assignments/quizzes/tests I did not submit

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Backlog ID: 22
User Story: As a Student, I can submit assignments.

Task Description	Expected Hours	Owner
Methods to enable a student to submit an document for a given assignment in the database	**10**	**Gaurav Srivastava**
Continue to work on the `FileAssignment` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	**2**	**Alex Rosenberg**
Expand assignments UI to be visible for students with the option to submit a file	**3**	**Michael Schloss**

ACCEPTANCE CRITERIA

- As a student, I should be prompted in an assignment to submit a file
- As a student, I should be presented with a popup for submission and renaming if I choose to submit
- As a student, I should receive verification that my submission was received by ABC

Backlog ID: 23
User Story: As a Student, I can take quizzes or tests.

Task Description	Expected Hours	Owner
Add methods to query the database to get an online quiz or test	**10**	**Gaurav Srivastava**
Add methods to check answers of student and add grade to the database	**10**	**Gaurav Srivastava**
Continue to work on the `Question` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	**2**	**Alex Rosenberg**
Continue to work on the `Question` object class, including constructor(s), fields, accessors, and mutators as shown in the Design Document Objects Layer UML	**2**	**Alex Rosenberg**
Populate quiz objects with `returnedData()` for specific `QuizAssignments`	**10**	**Naveen Ganessin**
Implement lock-down methods than enforce specified time limits and restrictions	**6**	**Michael Schloss**
Implement UI to allow students to take quizzes and tests	**6**	**Michael Schloss**

ACCEPTANCE CRITERIA
- As a student, I expect to be able to take a quiz or test whenever I want as long as it is before the due date
- As a student, I expect to be able to see exactly how much time is left to take the quiz or test
- As a student, I expect to receive small warnings as time is running out when taking a quiz or test

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Backlog ID: 24

User Story: As a Student, I can send email to their teacher from the application.

Task Description	Expected Hours	Owner
Add a button under each course that when pressed opens email application to compose an email	**2**	**Michael Schloss**

ACCEPTANCE CRITERIA

- As a student, I expect a button to be able to easily email the instructor for a course
- As a student, I expect my email program to be opened with a new email when I press this button
- As a student, I expect the instructor's email to be filled in for me

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Backlog ID: 25
User Story: As a Student, I can view/consume public class files.

Task Description	Expected Hours	Owner
Implement methods to view and download documents from the server	5	Gaurav Srivastava
Return file objects from server	12	Gaurav Srivastava & Naveen Ganessin
Expand course content UI to be viewable by students with the option to click on each assignment and download it	3	Michael Schloss

ACCEPTANCE CRITERIA
- As a student, I expect to be able to see all public course files
- As a student, I expect to be able to download any public course file
- As a student, I expect to not be shown files that are private or for a course I am not enrolled in

Backlog ID: 26

User Story: As a Student, I should be able to receive an email notifications about assignments and exams due.

`//Optional user story. This will only be implemented if time permits.`

Task Description	Expected Hours	Owner
Implement methods to get all assignments, exams due in a week, 24 hours and 4 hours before time	**5**	**Gaurav Srivastava**
Add options in settings to allow for subscription to alerts of assignments and exams	**1**	**Michael Schloss**

ACCEPTANCE CRITERIA
- As a student, I expect to be able to subscribe to emails warning me of upcoming due dates on assignments, quizzes, and tests
- As a student, I expect to only be alerted if I've chosen to receive these emails
- As a student, I expect to be able to opt-in initially, and not have these emails activated by default

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Backlog ID: 27

User Story: As a Student, I should be able to enter the exact teacher's random text for attendance.
//Optional user story. This will only be implemented if time permits.

Task Description	Expected Hours	Owner
Method to query the database to retrieve the text and check if it matches the input	2	**Gaurav Srivastava**
Query the database to add the attendance score for a student	2	**Gaurav Srivastava**
Add a button in course view to present a popup allowing students to enter the text	2	**Michael Schloss**

ACCEPTANCE CRITERIA

- As a student, I expect to be able to input the course's attendance string
- As a student, I expect to be able to make minor mistakes in text and not have it count against me
- As a student, I should receive verification that my text was submitted

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```
//Tasks from Sprint 2 that were incomplete.
```

Backlog ID: 16

User Story: As an Instructor, I can view grades for any of their classes.

Task Description	Expected Hours	Owner
GradeQuery will have to deal with grades	**12**	**Naveen Ganessin**
CourseQuery fix to facilitate grade allocations	**3**	**Naveen Ganessin**
Expand Grades view to allow instructors to view grades for each course	**6**	**Michael Schloss**

ACCEPTANCE CRITERIA
- Given there are no grades, I expect to not see any grades
- Given that there grades for a class, I should be able to see only these grades
- Given that there are grades for multiple classes, I should be able to easily distinguish which are which

Backlog ID: 17

User Story: As an Instructor, I can generate grade reports.

Task Description	Expected Hours	Owner
Expand Grades list to allow for creation of downloadable reports or charts	**2**	**Michael Schloss**

ACCEPTANCE CRITERIA
- Given grades are available, I expect to be able to press "Download" and be asked where I'd like to save the file
- Given that there are no grades, I expect to not be presented with a download option
- Given the file, I expect it to either be a picture if it is a graph, or a csv if it is text that I can import into another program

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Backlog ID: 19

User Story: As a Student, I can see school-wide announcements.

Task Description	Expected Hours	Owner
AnnouncementQuery for school-wide announcements	1	**Naveen Ganessin**
Present list of announcements on home page for student denoting school wide anouncements	5	**Michael Schloss**

ACCEPTANCE CRITERIA
- Given there are no announcements, I expect to not see any announcements
- Given that there are announcements, I expect to see the announcements in chronological order
- Given that an announcement is brand new, I expect to have this denoted in the UI

Backlog ID: 20

User Story: As a Student, I can see class-wide announcements.

Task Description	Expected Hours	Owner
AnnouncementQuery for class-wide announcements	1	**Naveen Ganessin**
Expand student list of school wide announcements to include and denote class announcements	2	**Michael Schloss**

ACCEPTANCE CRITERIA
- Given no class announcements, I expect to not see any class announcements
- Given that there are class announcements, I expect to see the class announcements in chronological order

- Given that there are class AND school announcements, I expect to be able to easily distinguish which are which
- Given that there is a brand new announcement, I expect this to be denoted in the UI

TOTAL HOURS

Member	Total Hours
Alex Rosenberg	**55** Sprint 2
Naveen Ganessin	**65** Sprint 2 | **17** Sprint 1
Gaurav Srivastava	**29** Optional | **49** Sprint 2
Michael Schloss	**5** Optional | **76** Sprint 2 | **15** Sprint 1

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REMAINING BACKLOG ITEMS

There will be no remaining backlog items after this Sprint is complete