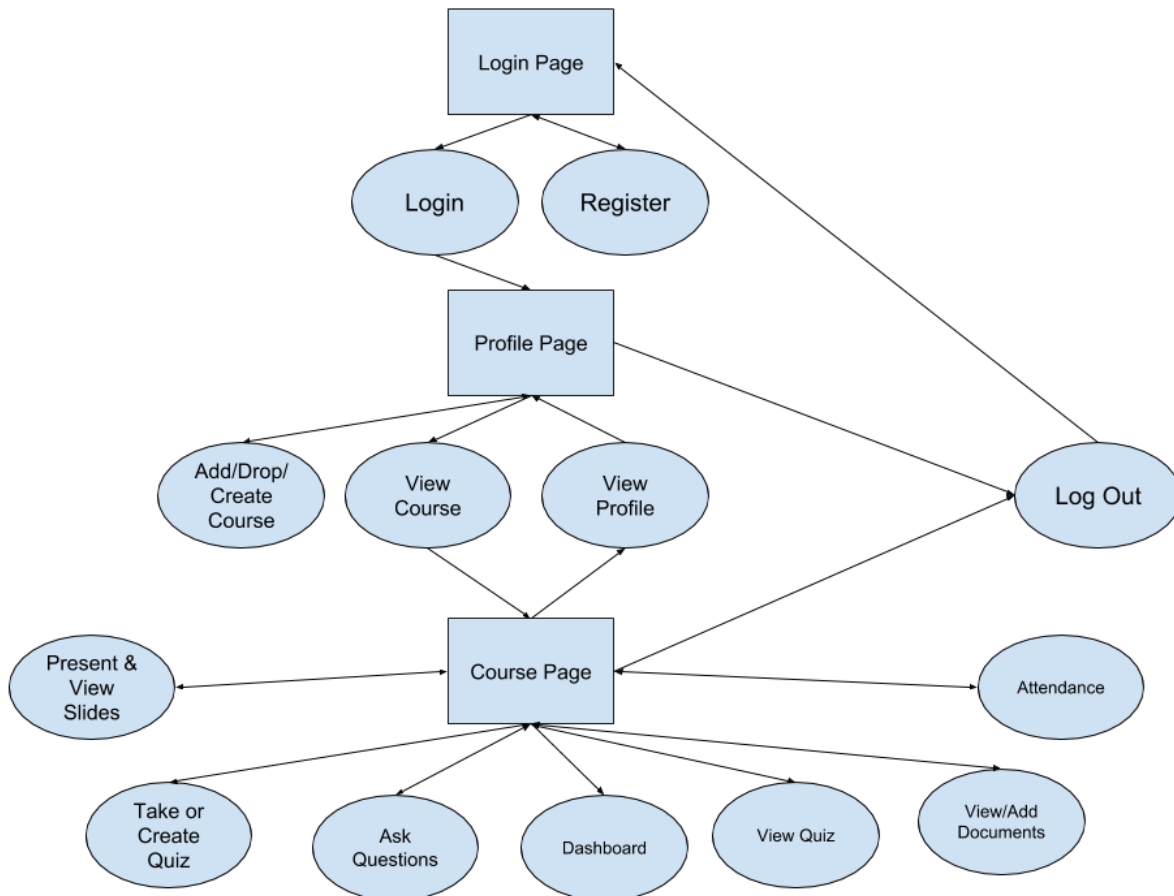




InClass

Team 17 - Incremental Testing and Regression Testing
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Classification of Components



Login Page:

Input: N/A

Output: N/A

Dependent Components: Login, Register

Login:

Input: Email, Password

Output: Incorrect Password, Profile Page

Dependent Components: Login Page, Profile Page

Register:

Input: Name, Email, Password

Output: Pass/Fail Registration

Dependent Components: Login Page

Profile Page:

Input: N/A

Output: N/A

Dependent Components: Login, Add/Drop Courses, View Course, View Profile, Logout

Add/Drop/Create Courses:

Input: Course Name, Add/Delete/Create Button

Output: N/A

Dependent Components: Profile Page

View Course:

Input: Course

Output: Course Page

Dependent Components: Profile Page, Course Page

Log Out:

Input: Button

Output: Login Page

Dependent Components: Profile Page, Course Page, Login Page

Course Page:

Input: N/A

Output: N/A

Dependent Components: View Course, View Profile, Take Quiz, Ask Questions, View Documents

Take/Create Quiz:

Input: Button

Output: Quiz

Dependent Components: Course Page

Ask Questions:

Input: Text

Output: Question Log updated

Dependent Components: Course Page

View Profile:

Input: Button

Output: Profile Page

Dependent Components: Profile Page, Course Page

View/add Documents:

Input: Button

Output: Document

Dependent Components: Course Page

View/add Slides:

Input: Slides

Output: Slides

Dependent Components: Course Page

Attendance:

Input: QR Code, Geolocation

Output: Success message

Dependent Components: N/A

Dashboard:

Input: Attendance Date

Output: Screen showing which students were present or not

Dependent Components: Attendance

View Quiz:

Input: N/A

Output: View grades of students

Dependent Components: Quiz Submission

Which form of incremental testing did we use?

Similar to Sprint 1, continued to take a bottom up approach for incremental testing because many of our components continue to build upon each other. For example, some of the new features implemented in Sprint 2 are based on top of the initial course components. Initially we tested the basic functions in Sprint 1 and then were able to test the more advanced features of Sprint 2 such as QR code attendance. This sits on top of the course page elements. By first thoroughly testing those initial, basic components we were able to efficiently test the more advanced components. With this strategy we tested the foundation of our application before laying the advanced features down on top of it.

Incremental and Regression Testing

Module	View/add Slides
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Incremental Testing

Defect No.	Description	Severity	How To Correct
1	Each course should only have 1 slide set at a given time, multiple slides will appear in database if more than one is updated	2	Make sure that when slides are updated it deletes associated slide entries in the 'slide' table in the Postgres DB.

Regression Testing

Defect No.	Description	Severity	How To Correct
1	The first slide to show is always not sized right. Goes away after moving and coming back.	3	Size the slide carrier box manually; don't let the current Angular library do it.
2	If a user inputs a file that isn't of a PDF format, the display box will not show up.	2	Show an error, make sure it is known to users not to upload file types other than PDF.

Module	Attendance
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Incremental Testing

Defect No.	Description	Severity	How To Correct
1	Clicking out of the dialog for attendance or using the close button closes the dialog but not the attendance it self.	2	Disable clicking outside of the dialog and remove the close button. Now, the only way to close the dialog is to close attendance itself.
2	The QR code appeared half off of the page on the dialog, rendering it unscannable.	1	Modify the CSS to center the QR code in the dialog.
3	Location was not accurate because the formula was mathematically incorrect.	2	Modify the distance formula that was implemented.

Regression Testing

Defect No.	Description	Severity	How To Correct
1	Disabling the close button and click off close of the attendance dialog causes the file upload dialog to be unclosable.	1	Add unique configuration for each dialog.

Module	Dashboard
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Incremental Testing

Defect No.	Description	Severity	How To Correct
1	In the professor view of the attendance dashboard, duplicate dates appear in the drop down selection menu.	2	Implement a pipe that filters out duplicate options using lodash.
2	In the professor view of the attendance dashboard, the drop down options appeared outside of the dialog	1	Modify the css for the drop down options.
3	In the proffesor view of the attendance dashboard, you see attendances results for the professor.	2	Add a ngif statement to hide the professor from view.

Regression Testing

Defect No.	Description	Severity	How To Correct
1	Hiding the professor from view in the attendance dashboard causes the student view of the dashboard to hide it's results	1	Seperate the student view of the dashboard from the professor view of the dashboard into an ngif statement.

Module	View Quiz
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Incremental Testing

Defect No.	Description	Severity	How To Correct
1	When showing quiz results, it displayed 100% every time as an average	2	Corrected the algorithm to find the average of the quiz
2	When you take a quiz for an additional time, it would not update the score.	2	Created an update method in the backend to find the quiz that the user is taking and correctly updated the score
3	When bar graph averages are showing for multiple questions on the quiz, it shows them as 50%	2	Populate the bar graph values with the correct averages.

Regression Testing

Defect No.	Description	Severity	How To Correct
1	When viewing quiz, it grabbed every quiz for that course.	3	Changed the query in the backend to specifically look for the most recent quiz instead of every quiz for the course.

Updated Backlog

Backlog ID	Functional Requirement	Number of Hours	Status
1	As a user (student/professor) I want to be able to login to my account.	3	Completed in Sprint 1
2	As a user (student/professor) I want to be able to log out of my account.	3	Completed in Sprint 1
3	As a user (student/professor) I want to be able to sign up for an account.	3	Completed in Sprint 1
3	As a user (student) I want to be able to be marked present for a class using the camera on my phone.	10	Completed in Sprint 2
4	As a user (student/professor) I want to be able to view classes I have registered.	3	Completed in Sprint 1
5	As a user (student/professor) I want to be able to drop my class after the semester.	3	Completed in Sprint 1
6	As a user (student), I want to be able to marked present for a class using geolocation.	10	Completed in Sprint 2
7	As a user (student/professor), I want to be able to view my/class attendance grade history.	6	Completed in Sprint 2
8	As a user, I want to be able to view slides on my computer, and I want my slides to advance as my professor advances the slides.	10	
9	As a user (student), I want to take quizzes that my professor assigns.	10	Completed in Sprint 1

10	As a user (student) I want to be able to add a class to my roster.	3	Completed in Completed in Sprint 1
11	As a user(professor) I want to be able to create a new class for students to join.	3	Completed in Sprint 1
11	As a user (professor), I want to open attendance and show the QR code.	6	Completed in Sprint 2
12	As a user (professor), I want to assign quizzes to my students in class.	6	Completed in Sprint 1
13	As a user (professor), I want to share files that are used in class to my students.	10	Completed in Sprint 1
14	As a user (professor), I want to be able to display quiz results to students.	5	Completed in Sprint 1
15	As a user (student) I want to view the class average scores on quizzes.	5	Completed inSprint 1
16	As a user (student), I want to be able to be able to use the application on my mobile phone and laptop.	10	Completed in Sprint 1
17	As a user (student) I want to see visual graphs of class grades.	10	Completed in Sprint 2
18	As a user (student) I want to be able to anonymously ask questions for the professor to answer in real time.	6	Completed in Sprint 1
19	As a user (professor/student) I want to be able to view questions of other students.	6	Completed in Sprint 1
20	As a user (student), I want "Yeah" (like) a posed question.	4	Completed in Sprint 1