CSCE 606: Software Engineering Project

Title: CSE PhD Qual Practice System

Team: WeCode

# Iteration 1 Report

**Scrum Master:** Shruthi Sampathkumar

**Product Owner:** Abhishek Taur

#### **Team Members:**

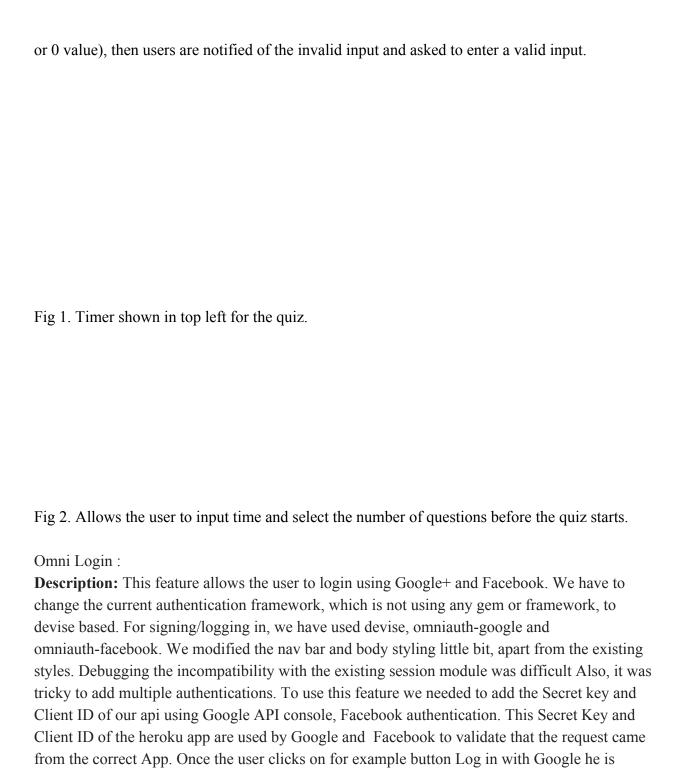
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## 1. User stories implemented in this iteration:

- Omni Login
- Timer

## Timer:

**Description:** Allows the user to take a quiz within the inputted time value. We implemented the timer functionality such that when the timer completes, the quiz is auto-completed and the user is shown the results. We also did input validation to ensure that the timer is set to a valid value. If the input is deemed invalid (e.g. input contains letters, has value more than 24 hrs or has negative



redirected to Google authentication page as shown in the below images.



## 2. Testing achieved:

### Scenarios Tested for Timer:

- 1) Selected all the possible number of question options like 20, 40, 60, All with a valid timer value and finishing the test before time and checked if the timer freezes and we are shown all the answers.
- 2) Tested all possible number of question options like 20, 40, 60, All with a valid timer value and tested that on time out the quiz is over and the show answer is called.
- 3) Tested the timer input field with invalid values like negative or 0 value, string, time over 24 hrs and checked if the error messages are displayed to the user or not.
- 4) Checked the scenarios 1), 2), 3) after login too.

## Scenarios Tested for Omni-login:

- 1) On clicking the login button for Google or Facebook when the user is not present whether we are directed to the Google or Facebook Authentication page and on login the user is created.
- 2) If the user is already present then on login using Google or Facebook whether he has the same access permission or not.
- 3) If the user is present and we try to register him using the normal method, are we getting validation errors.
- 4) If we create a user and then login using Google or Facebook are we able to do it or not and vice versa and whether the password if invalid is showing a validation warning to the user or not.

Rspec and Cucumber tests were added for the above scenarios wherever possible. For example the Cucumber tests were not added for Scenario 1) of the Omni-Login because Cucumber doesn't allow to validate redirection which is a url outside the App URL. The report for the cucumber and rspec test can be found at

https://github.com/Shruthi-Sampathkumar/PhD-Qual-Practice/blob/master/coverage/index.html The overall coverage was increased to 50.7% while earlier it was 8.6%. Most of the scenarios have been tested completely. We were not able to use Code Climate to figure out the velocity as we weren't able to get the free trial.

## **Implementation Diagram:**

1) Timer:

The above diagram shows the implementation flow for Timer with how the interactions are done. The flow is from left to right. 1..\* is calling and 1..1 is called class or page.

2) Omni-login

The above diagram shows the implementation flow for Omni-login with how the interactions are done. The flow is from left to right. 1..\* is calling and 1..1 is called class or page.

## **Customer Meeting:**

The team was not able to connect with the customer due to COVID19 breakout and thus did not receive feedback. This report was submitted with the implementation plans discussed with the customer in the meeting for iteration0.

**Pivotal Tracker:** <a href="https://www.pivotaltracker.com/n/projects/2441195">https://www.pivotaltracker.com/n/projects/2441195</a>

 $\textbf{Github Link:} \ \underline{https://github.com/Shruthi-Sampathkumar/PhD-Qual-Practice}$ 

Heroku Link: <a href="https://desolate-scrubland-99548.herokuapp.com/home">https://desolate-scrubland-99548.herokuapp.com/home</a>