

# CSCE 606: Software Engineering Project

## Title: CSE PhD Qual Practice System

Team: WeCode

## Iteration 2 Report

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### **1. User stories implemented in this iteration:**

- Tag Questions in Practice
- Forget Password

#### **Tag Questions in Practice :**

**Description:** This feature allows the user to tag i.e. Bookmark the questions in the Practice Session. We implemented the functionality using a bookmark checkbox which when checked shows the tagged questions in the Marked Question Section. The user is able to uncheck the bookmarked question which removes the question from the Marked Question Section. The Fig. 1 shows the user interface. As shown in Fig 1. questions 2 and 3 have been bookmarked. To implement this functionality we call a javascript method called setBookmark on click of the checkbox which changes the css class from hide to show and when we click on the tagged question a javascript method toQuestion is called which redirects to the specified question.

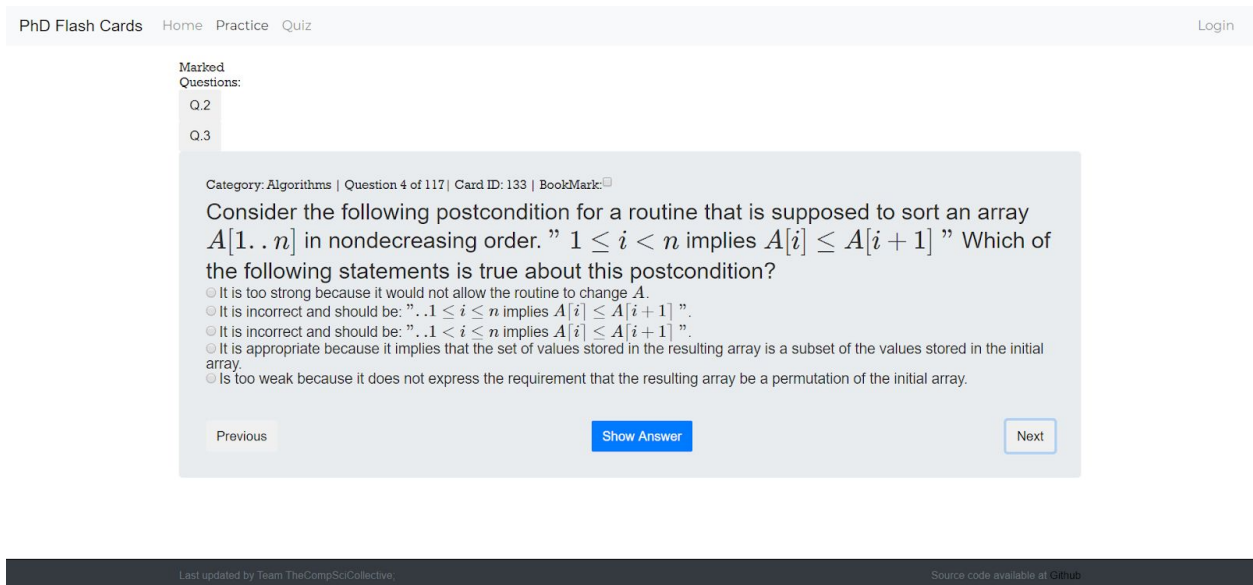




Fig 1. User interface for the bookmark question in Practice session

### Forget Password:

**Description:** This feature allows the user to set a new password if he has forgotten the original password. In the login page we have added an additional option Reset your Password. When we click this button the application redirects to the Forget your password page. You have to enter the email address which then uses a SMTP(Simple Mail Transfer Protocol) Server to send an email to the given email address. Once the user clicks on the link which he receives via the email he is redirected to the Reset Password page where he can enter the new password. The user should then login using the new password. The current implementation uses the dotenv gem and the changes to the devise.rb and production.rb to enable the smtp server and use an email address to send the email. Below figure shows the process for resetting the password.

### Log in

 Log in with Facebook

 Log in with Google

or

Email

Password

Log in

Forgot your password?


Reset your password

Not a user?


Register

Fig 2. Login page with added Reset your password button

### Forgot your password



Enter the email address associated with the account and click Reset password button.

 Email Address

Reset password

Fig 3. Forget your password page

## Reset password

Password

Confirmation

Update password

Fig 4. Reset password page for entering the new password.

## **2. Testing achieved:**

Scenarios Tested for Tag Questions in Practice:

1. Select one or more categories and then start the practice session and tag questions and check if they are visible in the Marked questions section.
2. Once you have bookmarked the questions try to check if they can be unchecked and are removed from the Marked Question section.
3. Click on the bookmarked question and check whether you are redirected to the bookmarked question and see if you can navigate to the next or previous question.

Scenarios Tested for Forget Password:

1. Click on the Reset your password button and check if you are redirected to the forget your password page which is as shown in Fig 3.
2. Once on the Forget your password page try to send email to a valid email address which is present in the database of the application.
3. Check whether you received email for reset password and are able to click on the link and are redirected to the reset your password page as shown in Fig 4.
4. Once on the reset password page you should be able to enter a new password and confirm the new password and after you update the password you should be able to login with the new password.
5. If an invalid email address is entered in Scenario 2 then it should warn the user.
6. In scenario 4 if the password and confirm password are different then the user should be notified of the error.
7. If the user doesn't click the link that he received in Scenario 3 after a given timeout it should expire and the user should be notified.

Cucumber tests have been added for all the scenarios of the Tag Questions in Practice and for some of the scenarios in the Forget Password. Rspec tests are being added and in progress for both the stories.

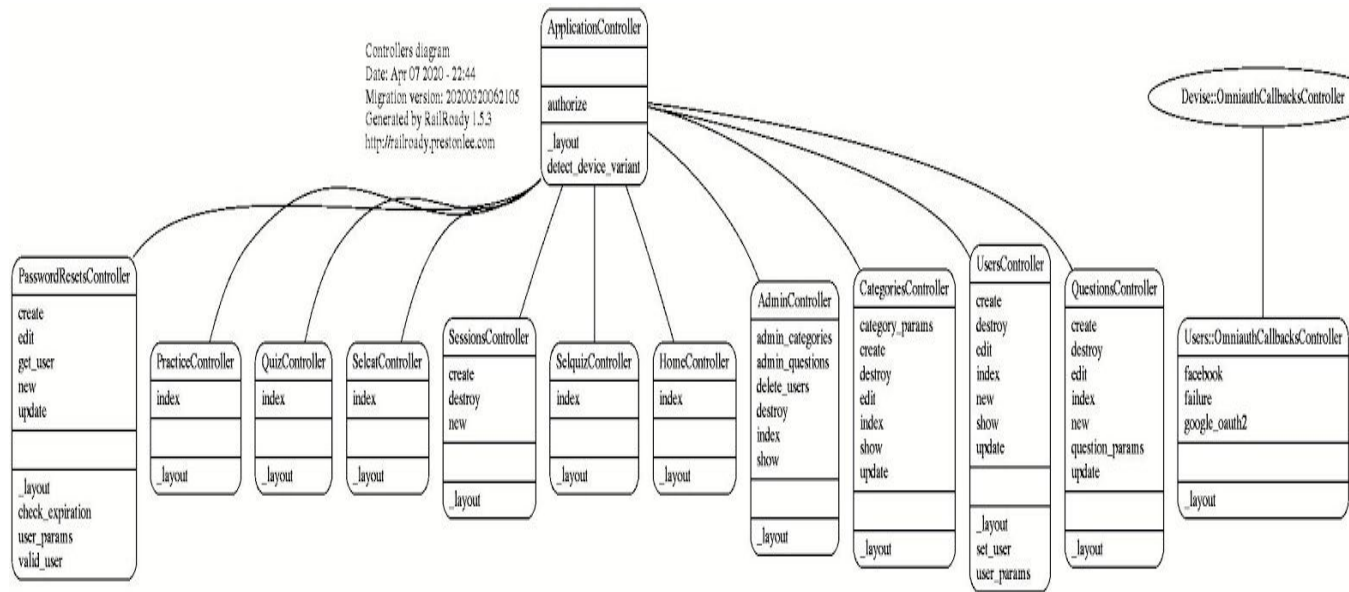
## **3. Issues still to be resolved:**

The scenarios 4, 5 and 6 are not completely resolved and we are still resolving issues related to login after the resetting the password and reset password link expiration. Also additional rspecs tested have to be added to completely cover all the functionalities. We will be working on resolving the blockers in the coming iteration.

## 4. UML Diagram:

This section contains uml diagram after the changes.

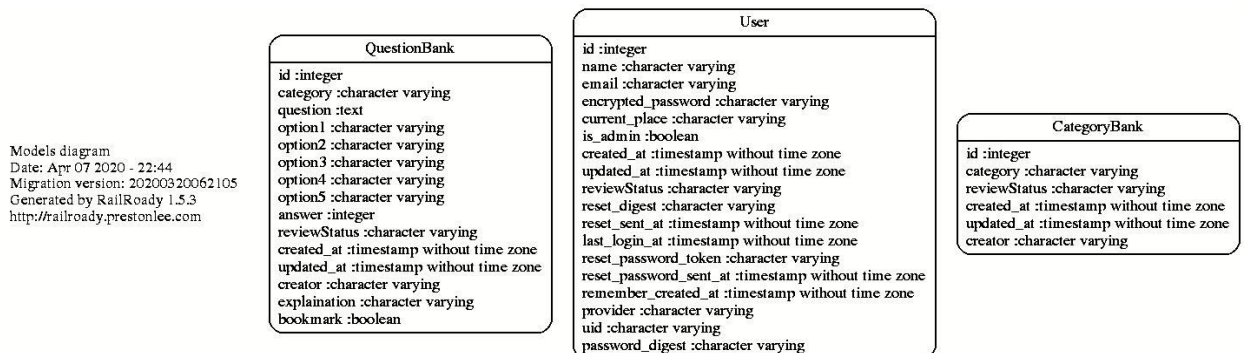
### 1) Controller



More clear svg files can be found here

[https://drive.google.com/file/d/16HoAzeaxYs-cE\\_VvDRXxYO1ZiOHPuCj-/view?usp=s\\_haring](https://drive.google.com/file/d/16HoAzeaxYs-cE_VvDRXxYO1ZiOHPuCj-/view?usp=s_haring)

### 2) Model



More clear svg files can be found here

<https://drive.google.com/file/d/1FejWHqcBpiLiqHY2nWy4Sty6NietwsTM/view?usp=sharing>

## **5. Customer Meeting:**

The iteration meeting with the customer Dr. Duncan Walker occurred on 04/03/2020 at 11:30 am CST. The team has demonstrated the Tag questions in Practice session feature and also the Forget Password to the customer. The customer was satisfied with feature implementation and was notified with the issues which we are still facing and we will be demonstrating the fix for the issues in the next meeting.

**Pivotal Tracker:** <https://www.pivotaltracker.com/n/projects/2441195>

**Github Link:** <https://github.com/Shruthi-Sampathkumar/PhD-Qual-Practice>

**Heroku Link:** <https://desolate-scrubland-99548.herokuapp.com/home>