

# Fall 2019 ASE Team2 Project

## Question paper generation system

Project members:

Jiaqing Lyu 14

Anh Tuan Nguyen 19

Mohit Sriram Tirumala 24

Srujan Reddy Tirupally 25

Video Link:

[https://drive.google.com/file/d/1Xo\\_xzDf5ujpWB9v7uOsufNMETwQGJMxk/view](https://drive.google.com/file/d/1Xo_xzDf5ujpWB9v7uOsufNMETwQGJMxk/view)

GitHub:

<https://github.com/CS5551/Question-Generation-System>

ZenHub:

<https://github.com/CS5551/Question-Generation-System#workspaces/cs5551-team2-5d7876a03859ca0001800b9f/board?repos=207666842>

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# 1. Project Deployment & Project Manage document

## a. Project Deployment

### i. User Manual

1. Introduction: Nowadays information is becoming more and more important. Under this situation, people want to gather all kinds of information for use. Question paper is an idea way to help solve this problem. In order to help people to generate question papers, we decide to create a web app about it. And nowadays people use mobile devices more than computer, so we decide to do it as a hybrid mobile app.
2. Use the system: This is a hybrid app for mobile devices. All what you need is a smart mobile phone and an available browser. You will need to register a new account so that you are able to log into the system. You will need your email to register. After logging in, you will be able to create your own questions for the paper, also you can generate your own question paper with the questions. What you can also do is you are able to extract questions from the pictures of the other question papers or the paper you have in your album. If you don't want to create the questions by yourself, feel free to download the question set files(json) and upload it to the system. After finishing a question paper, you can download the PDF file of the paper.
3. Error recognition: If you don't use your email to register, you will not able to pass the authorization. You have to register with your email. The password is supposed to be longer than 5 characters, otherwise you will not able to register. When using the system, you log into your own account and you will have your own question set. If you want to build a question paper with the number of questions more than that of your question set, you need to add more questions until the number of questions in the set is larger than that in the paper. When you are

using the question extract function, there might be some error in text because your picture may be not clear. Please use clear pictures only with text. Before you download the PDF file, you need to click on the Generate PDF button so that the system will build a PDF for your question paper. Once you delete a question or a question paper, you will not be able to find it back. Be careful with the decision.

4. Sample interaction example video:

[https://drive.google.com/file/d/1Xo\\_xzDf5ujpWB9v7uOsufNMETwQGJMxk/view](https://drive.google.com/file/d/1Xo_xzDf5ujpWB9v7uOsufNMETwQGJMxk/view)

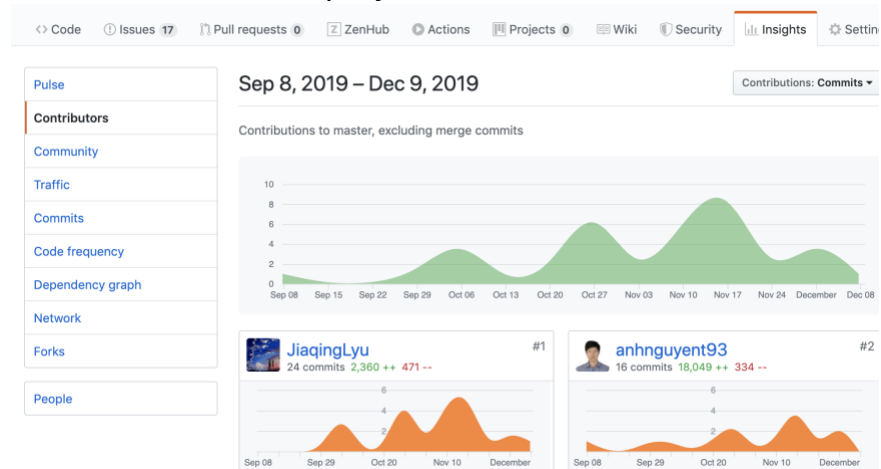
5. Known bugs and deficiencies:

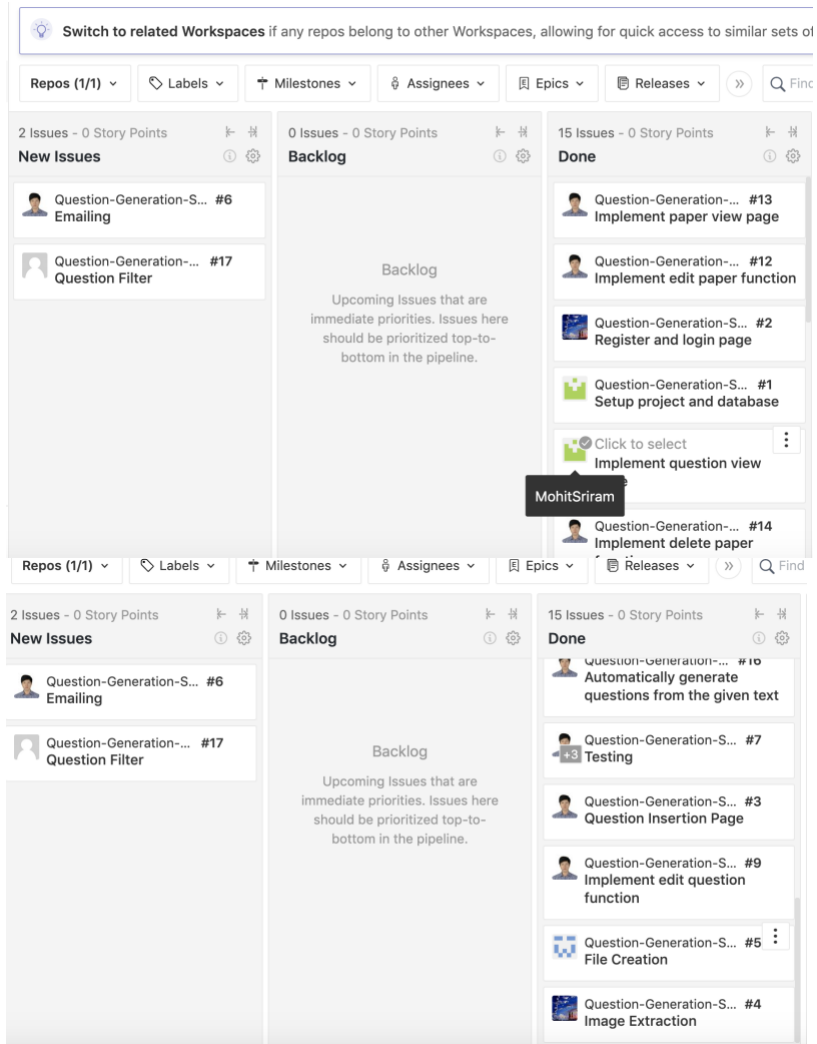
- The user is not able to find back his account if he forgets his password or email address.
- The PDF file might be in not very good-look format of the text because of different length of questions.
- The OCR sometimes is not able to run on some version of different browsers because the bug of cordova.

## b. Project Management

### i. Report

1. Contribution for the project:





## 2. Contribution of 100 points:

- a. Jiaqing Lyu: 30 pts: The UI design, OCR page and class diagram, project management and all paperwork.
- b. Anh Tuan Nguyen: 35 pts: The question/paper/login/register page, Firebase, get/upload questions function.
- c. Mohit Sriram Tirumala: 15 pts: Testing and ideas about functions.
- d. Srujan Reddy Tirupally: 20 pts: The PDF function implementation and the download page.

## ii. Final project evaluation

1. How well your project satisfies your original requirement specifications

This project has achieved all the original requirements. And we also added the function of download/update question set into the app.

2. Were you satisfied with your design process?

80% satisfied. Technically we meet a lot of problems such like the cordova doesn't work on browser and some versions of Ionic and we solved these problems by searching online. For the cooperation actually this project is not that big, we did a good job on that.

3. How helpful was the agile process? How would you do the agile process next time?

The 4 increments were really helpful. The agile process ensures us to do the project all the time but not just push it to the deadline. The agile process also help us to do the project iterately, at first we build a very simple demo, and add functions and upgrade UI design in every increment. Next time I think I will make the every increment more detailed.

4. Did you stick to your project plan schedule?

No, we all caught up with the timeline.

5. What was the real management structure within your group?

We worked as we wrote in the document, but as a PM I also wrote code as well. But our relationship is still classmates so we discuss together about the schedule and everyone will do his part before the deadline, it is more like a parallel relationship between us.

6. Does it bear any resemblance to structure that you had planned?

We will have different jobs for different team members and everyone will follow the deadline to do specific parts.

7. Did you have any problems getting each member to do his/her share of the work?

This time we arranged different work to different people, everyone will do what they can do. If there is

some problem for a member, the job would be given to another who can deal with it when we had meetings.

8. Do you have any suggestion on how this could have been handled better?

The increment meetings should pay more attention on the project management. If a team has some problem on progresses, that will be good if there is a tutor helps how to manage the work.

9. Discuss what you might have done differently if this were a real world project?

The work everyone does is not equal. This may cause unsatisfication among team members.

10. Any recommendations for next year?

The increment meetings can add some tutorship on project management, the future assignments may not need to submit that much files for every week, such like videos, the wiki is enough.

## 2. Project Demo/Presentation Slides:

[https://github.com/CS5551/Question-Generation-System/blob/master/Team2\\_presentation.pptx](https://github.com/CS5551/Question-Generation-System/blob/master/Team2_presentation.pptx)

## 3. Project Proposal:

[https://docs.google.com/document/d/1WwPvBaUBv6gqI22P4toFOi\\_QMnmiAzu5QC\\_JCjHJwzI/edit](https://docs.google.com/document/d/1WwPvBaUBv6gqI22P4toFOi_QMnmiAzu5QC_JCjHJwzI/edit)

## 4. First Increment Report

[https://github.com/CS5551/Question-Generation-System/wiki/Project\\_Increment1\\_Report](https://github.com/CS5551/Question-Generation-System/wiki/Project_Increment1_Report)

## 5. Second Increment Report

[https://github.com/CS5551/Question-Generation-System/wiki/Project\\_Increment2\\_Report](https://github.com/CS5551/Question-Generation-System/wiki/Project_Increment2_Report)

## 6. Third Increment Report

[https://github.com/CS5551/Question-Generation-System/wiki/Project\\_Increment3\\_Report](https://github.com/CS5551/Question-Generation-System/wiki/Project_Increment3_Report)

## 7. Fourth Increment Report

[https://github.com/CS5551/Question-Generation-System/wiki/Project\\_Increment4\\_Report](https://github.com/CS5551/Question-Generation-System/wiki/Project_Increment4_Report)

## 8. References:

GitHub, ZenHub, Google Drive, Youtube

## 9. Acknowledgement Statement:

**The work has been completed under the guidance of Dr. Yugi Lee, Vijay Walunj, and TAs (Sirisha Rella, Gaikwad, Priyanka) CS5551 Advanced Software Engineering, University of Missouri -Kansas City), Fall2019.**