# 1<sup>st</sup> semester 2017-18; CSF 213(OOP) Mini-Project (Home Assignment)

**Project Title:** Automatic Quiz Test Generator Dt: 03-Nov-2017

## **Brief Description of the Application:**

The students are required to develop a tool that will enable one to randomly generate a quiz test questionnaire containing the specified number of questions from the question bank. The question bank and other related data need to be stored in a file/database or any other persistent structure as per the convenience. If it is a file, the system should ensure that the file exits and the path is specified. Or else a file is created with the specified name and stored in default location. Appropriate exception handling mechanism should be taken care of wherever required in the application. There should be options for separate question bank for separate subjects. The user should have the option of selecting the subject for which the question bank is to be made or the questionnaire is to be generated.

#### **Expected Functionalities:**

*Insert:* The user should be able to insert a new question. There has to be an option to select the type of question that the user wants to insert (MCQ OR true/false OR Fill-in the blanks). If the type is multiple choice question, then the system should ask the user to write the question and the options in separate spaces. There should be an option to enter the answer for that question. A submit button will enter the question into the question bank. If it is a fill in the blanks question, then there should be only two spaces one for the question and the other for the answer. Do the appropriate thing for True/False type.

*Modify:* This functionality will let the user to modify any question, its options, and/or its answer.

**Delete:** This functionality will let the user delete any particular question.

**Generate Test:** This functionality will let the user to view either the questions set or the solution set. This functionality will ask the user to enter the number of questions to view. Supposing the user enters 10, then 10 questions should be randomly generated and displayed on the screen. It should also let the user export the questions in txt/word format. While generating the questions randomly the system should ensure that the same question is not repeated. The same should happen if the user wants to generate the solution set for the specified number of questions.

The students are free to design the GUI for the above project as per their creativity. Appropriate links should be provided to navigate from one option to another. The project should be deployable.

#### **Guidelines:**

- 1. This is **not a group** activity. Each student has to do it **individually**.
- 2. Apply OO concepts to specify classes, roles, functionality etc.
- 3. Maintain a separate hard copy that details the design of the system.
- 4. Final evaluation consists of reviewing the design, Demo and viva.
- 5. Evaluation dates: between 20<sup>th</sup> -24<sup>th</sup> Nov OR 27<sup>th</sup>-29<sup>th</sup> Nov (will be decided later).
- 6. Marking strategy: Design-5, Demo of the system-8, Viva-7.
- 7. Special Note: Plagiarism check will be done. Hence please make sure that your work is original.

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