OBJECT ORIENTED ANALYSIS AND DESIGN

Course Code: SWE2018 Slot: L9+L10

Lab Assignment - 2

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Scenario:

ABC Engineering college has decided to provide online quiz system to its student in various streams. The system will comprise of a database containing questions and answers on various subjects under various streams. The student will be able to login to the system through various desktop PCs available in the campus. The student will be able to take up a quiz view his/her performance over a period of time. The student will be able to take a break from a quiz only once for a maximum of 15 minutes. The quiz will comprise of only multiple choice questions. The duration of the quiz will be 1 hour and the student will be asked 50 questions. The system shall provide immediate feedback to the student whether he/she has passed or failed in the attempt based on the criteria after answering all questions.

The individual lecturers will be responsible for generating the questions and answers for the question bank. The lecturers shall enter the moderated questions and answers in the question bank. The lecturers shall also manage their student's details in the system as part of which necessary login and password shall be created. The lecturers can view the performance history of their students and provide feedback to the student in the system.

At the end of the semester the lecturers shall print a consolidated performance history of each student and provide it to their student with their comments.

Sequence Diagram for scenario -1: sd SequenceDiagram1 Portal Lecturers Database Question Bank Student 1: Enter Username and password 2 : Enter the Details 3 : Authenticate 4 : Submitting 5 : Home Screen 6 : Successful 8 : Check the period time 7 : Enter into the quiz link 9 : Check for the available questions 12 : Available 10 : Display the questions 11 : Available now 13: Check for the time period 14 : Submitted 15 : Check the answer 16 : Display the mark 17 : Mark analysis 18: Enter the subject Details, question and answers 19: Enter the username and password 20 : Enter the details 21 : Submitting 22 : Authenticate 23 : Successful 24 : Home Screen 25 : View performance history 26 : Display the History of the students 27 : Provide the feedback 28: Home screen 29 : View feedback from the faculty 30 : Display the result 31 : Print the performance history 32 : Provide the performance history with comments

State chart diagram for scenario -1:

