System requirements:

***Admin:***

Format: System shall … *[What to do ?]* …. *[Supporting detail ?]*

*E.g: System shall list all questions with question statement, all multiple choices and correct choice*

- **Admin login/logout:**

1. System shall allow administrators to either login or logout

* **Topic**

1. System shall create a new topic including topic name
2. System shall list all existing topics including topic name
3. System shall update topics including topic name
4. System shall delete topics

* **Classification:**

1. System shall create a new difficulty (selecting one of the: Easy, Medium, Hard)
2. System shall list all existing difficulties including Easy, Medium, Hard
3. System shall update difficulty (switching between: Easy, Medium, Hard)
4. System shall delete difficulty

* **Question:**

1. System shall create a new question including Question statement, 4 choices with 1 correct choice, image (if any), topic, classification
2. System shall list all questions including Question statement, 4 choices with 1 correct choice, image (if any), topic, classification
3. System shall update question including Question statement, 4 choices with 1 correct choice, image (if any), topic, classification
4. System shall delete questions

**Public:**

* **User login/logout**

1. System shall allow user to either login or logout

* **Create and start new session**

1. System shall create a new test session
2. System shall use TimeStamp as a unique name for a session
3. System shall pick randomly 10-20 questions to form an appropriate test

* **View Question**

1. System shall display 1 question per page
2. System shall display all choices associated with the corresponding question
3. System shall allow user to select 1 answer at a time

* **Next/previous question**

1. System shall allow user to go back or move forward between questions

* **Question navigation**

1. System shall list question number (e.g: 1->40)
2. System shall allow user to jump to a specific question using its number
3. System shall mark answered/unanswered question

* **Viewing elapsed time**

1. System shall display elapsed time

* **Submit**

1. System shall allow user to submit their answer
2. System shall display unanswered question warning to user

* **Display result**

1. System shall use only 1 page to display the result
2. System shall display percentage of correct answer
3. System shall display number of total correct answer
4. System shall display number of questions in the test
5. System shall display the time taken by the user
6. System shall initiate a table with detailed question data along with user’s original answer