

Inception Report

Quiz Master

Submitted by: Team 10

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1. Vision and business case:

The main aim of an Online Quiz System Project is to advance an environment that is user friendly and reduces the manual effort required. We need to provide a solution to manage an online quiz system where all individuals will access it in a team. It will simplify the task and reduce the paperwork. Specific support will also need to be provided.

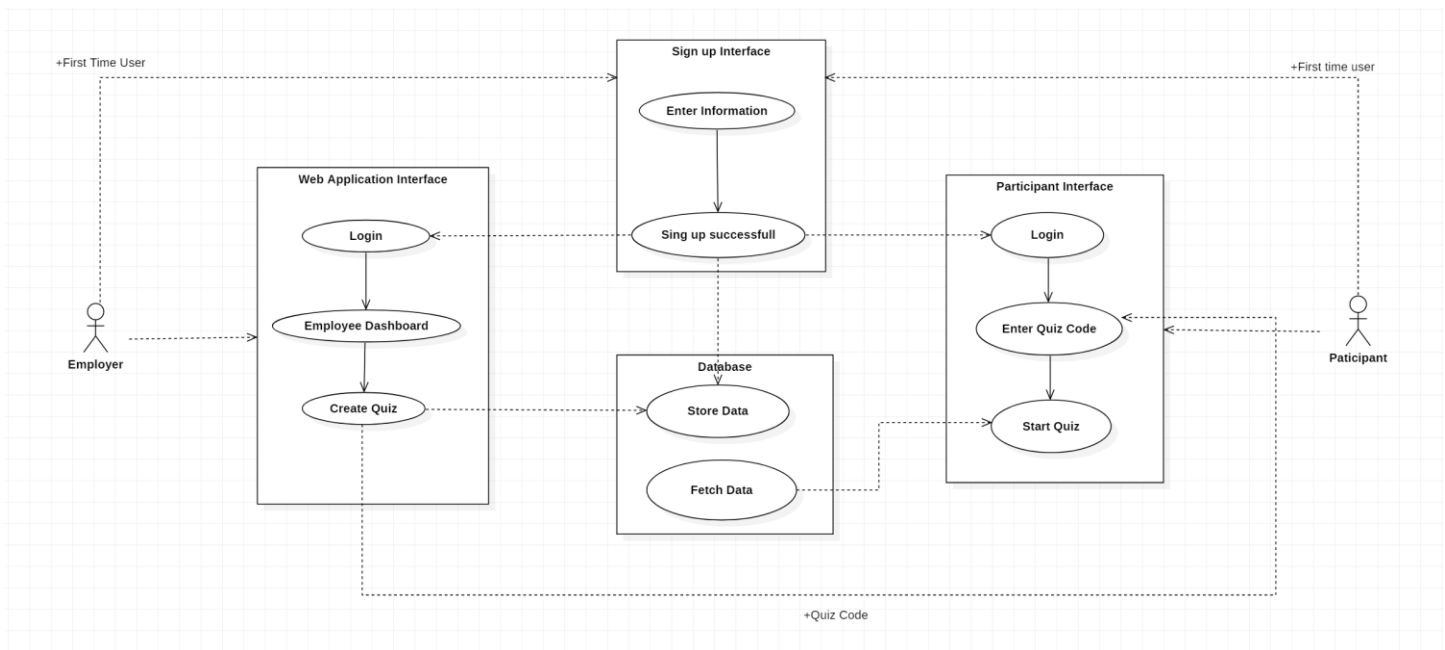
The existing system provides us with a text-based interface which we will be changing into a graphical interface.

The exam will be taken on personal devices with nobody to check on them, so questions will have to be altered to provide for this situation. A timer can be added to each question so there is no time to search for the answer.

Open text questions are possible, but it will not be auto graded, so scoring will have to be done manually.

An online exam system is a little bit more susceptible for fraud. In that case we can setup a question bank to solve the issue of fraud. We could also be handing the results only after the exam lifetime is over to prevent fraud.

2. Use-Case Model:



3. Supplementary specification:

Security: Only authorized staff (+external examiners) to have access before exam time. Only authorized staff and students to have access during exams and results. Software must be kept up-to-date and patched in a timely fashion. All access attempts must be tracked and reported.

Audit: Suitable access must be provided. Logging of changes to questions and exams is mandatory. It must be possible to set a point after which exams cannot be changed.

Operational: Hardware & software requirements for test taking must be minimal. The system must be able to transfer student information from student information system to assessment system.

Other: Costs would be a risk factor.

4. Glossary:

ACTOR: A person or system that interacts with the software application in support of a specific process or to perform a specific operation or related set of operations.

CLIENT: The user point-of-entry for an application.

DOCUMENTATION: Information made available.

ENTITY: A collection of attributes related to and describing a specific subject.

FORM: A screen formatted to facilitate data entry and review.

MAINTENANCE: The process of supporting production software.

MODULE: A functional part of an application.

OBJECT CODE: Program instructions that have been translated into machine language so that they can be executed by the computer.

OPEN DATABASE CONNECTIVITY (ODBC): A set of software drivers and database functions that allow different applications to access client/server RDBMSs.

PSEUDOCODE: A combination of programming language constructs and natural language used to define an algorithm or business rule.

SUBJECT MATTER EXPERT (SME): A person, generally a customer staff member, who is an expert in one or more operational processes that are the focus of an automation effort. SMEs are generally the primary sources of application requirements, and play very significant roles in the requirements, design, and testing stages of the software development lifecycle.

5. Risk List and Management Plan:

By risk assessment we can say that there are 3 major risks attached:

Cost risk- It is the uncertainty associated with budgets of the project.

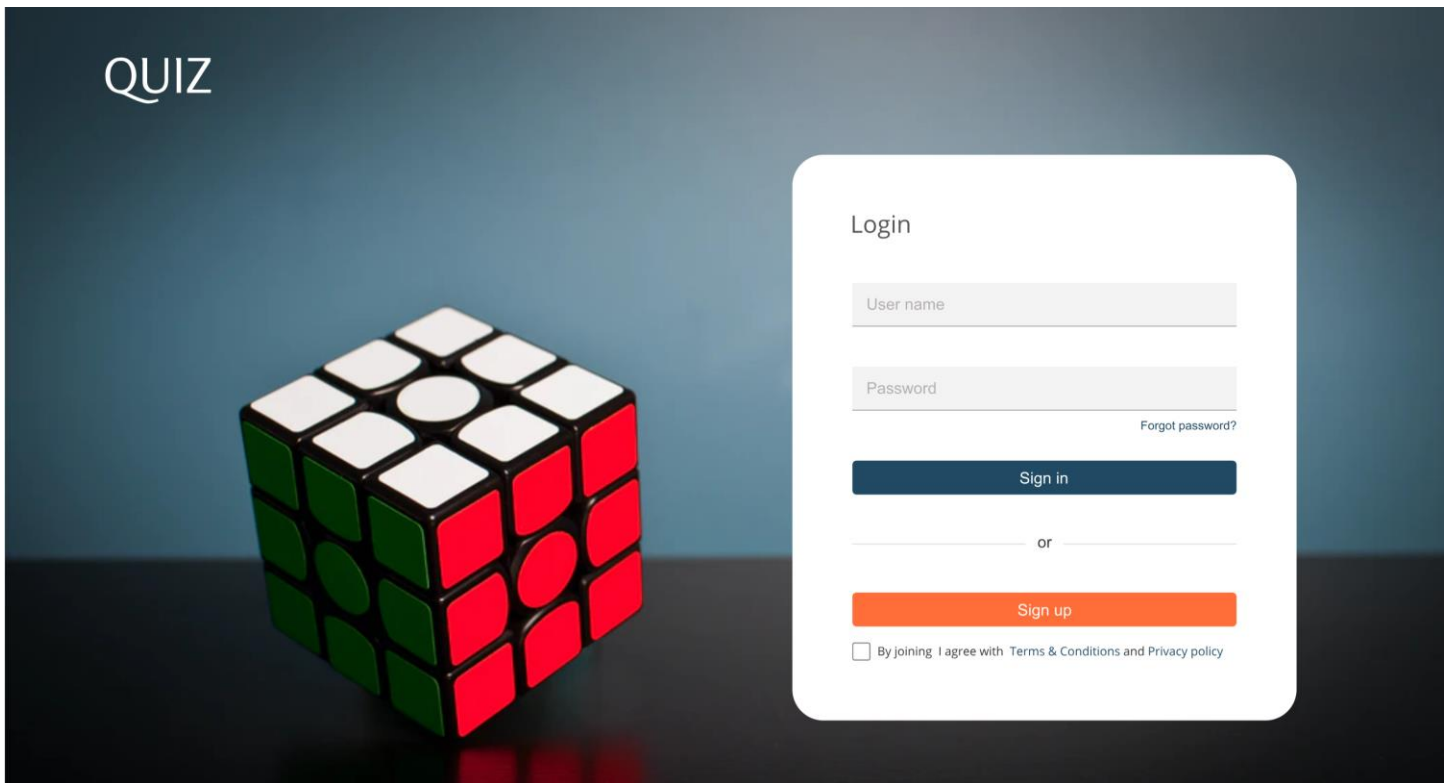
Performance risk- It is the possibility that the system will be unable to deliver and perform according to requirements.

Schedule risk- It is the uncertainty of ability of project to achieve the specified milestone.

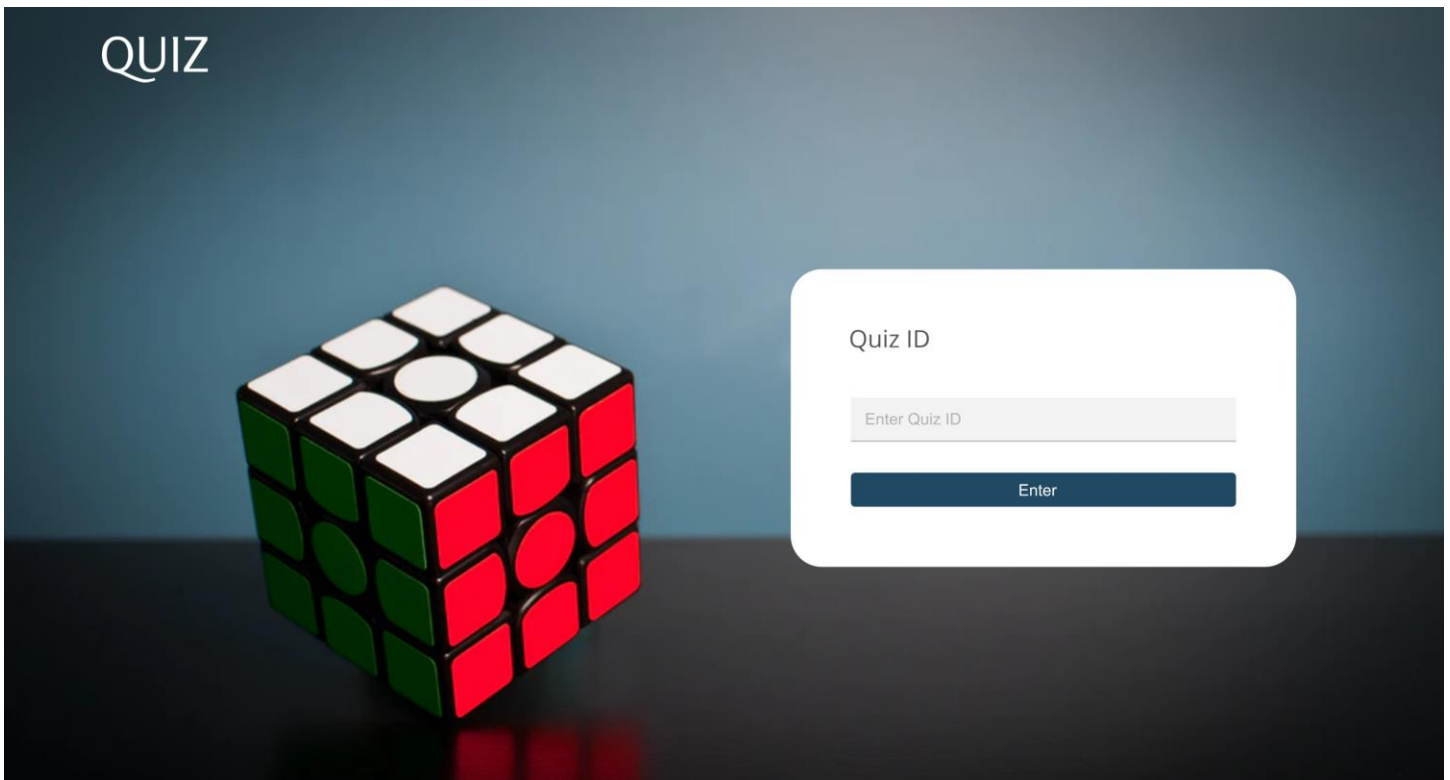
There is no extra cost associated other than the development cost so there is no cost risk.

6. Prototypes and Proof of Concepts:

This page is the login page for the employer.



This page is the login page for the participant.



This page needs participant information to begin the quiz.

QUIZ

Enter employee details

Enter employee name

Enter employee ID

Submit

Question 1 of 5

Question 1:
What will be the compound interest on a sum of Rs. 20,000 after 1 year at the rate of 10% p.a.?

☐ Rs. 2000.00

☐ Rs. 2100

☐ Rs. 10000.00

☐ Rs. 10000.00

☐ None of these

Time 10:00 mins remaining

1. What will be the compound interest on a sum of Rs. 20,000 after 1 year at the rate of 10% p.a.?

2. The difference between simple interest and compound on Rs. 1000 for one year at 10% per annum (rounded half paise is ?)

3. At what rate of compound interest per annum will a sum of Rs. 1000 become Rs. 1300 in 2 years?

4. The compound interest on Rs. 20,000 at 10% per annum is Rs. 4000. The period in years is ?

5. What is the difference between the compound interests on Rs. 5000 for 1 year at 10% per annum compounded yearly and half yearly?

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This page represents how the quiz interface will look like.

QUIZ

Enter employee details

Employee Name	Employee ID
Iron Man	EMP012345

Question 1 of 5

Question 1:

What will be the compound interest on a sum of Rs. 25,000 after 3 years at the rate of 12 p.c.p.a.?

- ☐ Rs. 9000.30
- ☐ Rs. 9720
- ☐ Rs. 10123.20
- ☐ Rs. 10483.20
- ☐ None of these

Time 15:00 mins remaining

1. What will be the compound interest on a sum of Rs. 25,000 after 3 years at the rate of 12 p.c.p.a.?
2. The difference between simple interest and compound on Rs. 1200 for one year at 10% per annum reckoned half-yearly is ?
3. At what rate of compound interest per annum will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?
4. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is ?
5. What is the difference between the compound interests on Rs. 5000 for 1 years at 4% per annum compounded yearly and half-yearly?

Done

Next

7. Iteration Plan:

For the first elaboration phase we are going to make a preliminary logical database design and detail the flow of events of roughly half of the use cases intended to detail in Elaboration, in order of decreasing priority. We are going to design, implement, and test a small number of critical scenarios to identify what type of architecture and architectural mechanism we will need.

8. Phase Plan and Software development plan:

Tools and resources: visual paradigm, eclipse, visual studio, my web domains, MySQL, IBM cloud

Project management software: GitHub

9. Development Case:

