**Q & A Documentation**

**Abstract:**

The objective of the document is to provide a proper view about the processes involved in order to make sure that the collection of questions and answers are being collected as per the requirement for the application. And proper technologies are used in order to provide the user a very helpful and easy experience when working with the application.

**Introduction:**

The main objective is to collect appropriate questions and their respective answers along with the explanation for the answer in order to verify the inputs given from the user through the front end application.

**Processes Involved:**

1. Collection of questions and answers

2. Differentiating the questions in 2 categories:

a. Easy

b. Hard

3. Inserting the data into Excel

4. Validation process

**Overview:**

**Collection of questions and answers:**

The process of collecting different questions from various sources and their respective answers along with the explanation for that answer is being collected. The process covers the topics namely as follows:

1. HTML
2. CSS
3. Bootstrap
4. ANSI SQL
5. JavaScript
6. Angular and Jasmin
7. Core JAVA
8. Spring core
9. Spring MVC
10. MySQL
11. JPA and Hibernate
12. Spring BOOT
13. GIT
14. Jenkins

**Differentiating the questions in 2 categories:**

Once the process of collecting of questions is completed we can go to the next process of differentiating them into two divisions namely 1.Easy and 2. Hard. We do this in order to provide the user a leveled way of learning in a way to challenge their knowledge in the respective field of learning. And the process involves:

Selection of the question category

Selection of single choice or multiple choice answers

**Inserting the data into Excel:**

After the data separation process is completed then the formatted data is inserted into separate worksheets in MS Excel. This process is required in the time of verification of data is needed when the application is being used by a user. We are inserting the data in separate cells in the worksheets so that each column contains the individual number of questions, answers and their explanation.

**Validation process:**

The validation process involves evaluation of the answers given by a user through the front end application via our application which is developed with JAVA. This process involves.

The data is collected from the front end application and their respective data is extracted from the excel worksheets. And validating the answer of the user given answer and the answer extracted from the excel sheet is done. Then the appropriate marks/scores are assigned for that user in the score card.