

SOFTWARE REQUIREMENTS DOCUMENT

Siliguri Institute Of Technology

HEAD SWINGER

PRESENTS
ONLINE QUIZ PORTAL

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[1] Introduction

1.1 Purpose

This project is about online quiz for the learners. It saves time as it allows large number of client to check their ability and get confident enough for their journey of learning at the same time and display the result just after the test is completed. The teacher in this online quiz system have the privilege to create, modify and delete the test papers and it's particular questions.

1.2 Scope

This can be used in a lot of educational institutions. It can be used by a large number of student to give their exams any time as it is a web based application.

Benefits: This website reduces the manual work, maintaining accuracy, increasing efficiency and saving time. Also institutes need not go to develop new software each time, instead they just register and conduct a test. For students, it saves time of going to far away centers and also they can view their result then and there.

[2] Overall description

This software is responsible for the recording and automating the task of conducting online quiz. It makes the faster working and good services with efficient user interaction.

2.1 Product functions

The product includes many functionalities of the organization. These functionalities are:-

- MCQ questions are asked
- Generate questions
- To conduct online quizzes.
- Options are given to user
- Mark as review to go back and do the problem
- Score evaluation

2.2 User characteristics

Many users such as Administrator, Teacher, Students, can use system. Only administrator of the system should be able to enter user information or modify any kind of information in the system.

3. User interfaces

It incorporates with effective GUI concepts and focuses on user-friendly systems. Here we have used swing and awt libraries for making buttons ,labels.

Tools to be used:

Java lannguage:Java is a **programming language** and a **platform**. Java is a high level, robust, object-oriented and secure programming language.

Java was developed by Sun Microsystems (which is now the subsidiary of Oracle) in the year 1995. James Gosling is known as the father of Java. Before Java, its name was Oak. Since Oak was already a registered company, so James Gosling and his team changed the name from Oak to Java.

JDK in Java is an abbreviation for Java Development Kit. It is a bundle of software development tools and supporting libraries combined with the Java Runtime Environment (JRE) and Java Virtual Machine (JVM).

IntelliJ IDEA is an Integrated Development Environment (IDE) for **JVM languages designed to maximize developer productivity**.

Platform: Any hardware or software environment in which a program runs, is known as a platform. Since Java has a runtime environment (JRE) and API, it is called a platform.

Java Swing is a part of Java Foundation Classes (JFC) that is *used to create window-based applications*.

The javax.swing package provides classes for java swing API such as JButton, JTextField, JTextArea, JRadioButton, JCheckbox, JMenu, JColorChooser etc.

Java AWT (Abstract Window Toolkit) is an API to develop Graphical User Interface (GUI) or windows-based applications in Java.

Java AWT components are platform-dependent i.e. components are displayed according to the view of operating system. AWT is heavy weight i.e. its components are using the resources of underlying operating system (OS).

The java.awt package provides classes for AWT API such as text field, label, text area, JRadioButton, Check Box Choice, list etc.

NON FUNCTIONAL REQUIREMENTS

RELIABILITY:

- The application must be reliable at all times. shall catch errors 99.99% of the time.

FUNCTIONAL REQUIREMENTS

It is the primary requirement that is fulfilled by our project. It's allowing the users, and customers to use our software at the level ease. The purpose of our project is to provide the full information that is required of the user. Here is the following requirement that is fulfilled by our system.

START SCREEN:

- The user shall be able to select **options** to mark their answers at options screen and modify.

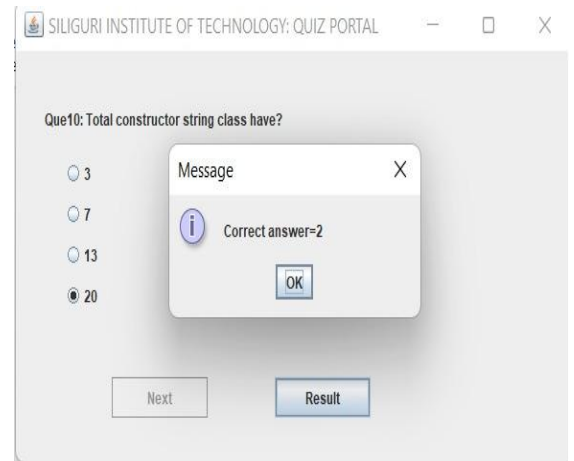
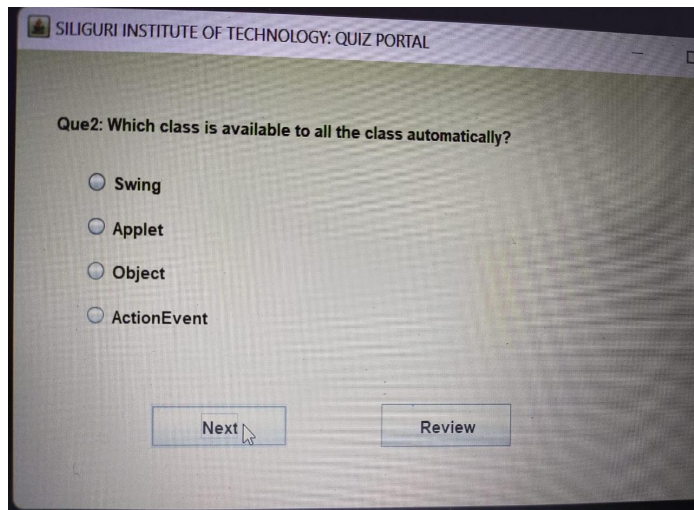
QUESTIONS SCREEN:

- The user shall be presented with questions randomly

RESULTS SCREEN:

- The user shall be provided the number of questions they correctly answered out of total questions given on the screen

3.1)



Futrure Scope

In a nutshell the future scope of this project is maintaining and adding the requirements according to the client ,

- We can create a attractive and aesthetic website page for a user .
- We can add more advance software in online quiz portal including more facilities
- We can host this in online platform to make it available to worldwide
- We can give login portal to both teacher and student
- We can make score evaluating progress report of each test taken in duration of its learning

- We can connect it with database later to make it more efficient and easily available
- We can give captcha at first for security purpose.

Conclusion

In this phase we understand the the Software Requirement documents, we used several libraries and created a online quiz portal for the learners to check their progress easily.

In this project, there are given 10 questions to play. User can bookmark any question for the reconsideration while going to result.

We are using here java array to store the questions, options and answers not database. You can use collection framework or database in place of array.