A Mini Project Synopsis on

Quiz Generation System

S.E. - I.T Engineering

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CERTIFICATE

This to certify that the **Mini Project report on Quiz Generation System: A Learning Platform** has been submitted by **Yogesh Kumbhar** (20104139), **Aniruddha Sawant** (20104011), **Pratham pise** (20104069) **and Nihal Varun** (2104040), who are a Bonafide students of A. P. Shah Institute of Technology, Thane, Mumbai, as a partial fulfilment of the requirement for the degree in Information Technology, during the academic year 2021-2022 in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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TABLE OF CONTENTS

Chapter 1

Introduction

The "MCQ Quiz Application" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. MCQ Quiz Application, as described above, can lead to error free, secure, reliable and fast management system, it can assist the user to concentrate on their other activities rather to concentrate on the record keeping.

Thus, it will help organization in better utilization of resources.

1.1 Purpose:

The purpose of MCQ Quiz Application is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/ information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

MCQ Quiz Application, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other

activities rather to concentrate on the record keeping. Thus, it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically, the project describes how to manage for good performance and better services for the clients.

1.2 Objectives.

The main objective of the Project on MCQ Quiz Application is to manage the details of Students, Examinations, Marks, Courses, Papers. It manages all the information about Students, Results, Papers, Students. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Students, Examinations, Results, Marks. It tracks all the details about the Marks, Courses, Papers.

Functionalities provided by MCQ Quiz Application are as follows:

- Provides the searching facilities based on various factors. Such as Students, Marks, Courses, Papers
- MCQ Quiz Application also manage the Results details online for Courses details, Papers details, Students.
- It tracks all the information of Examinations, Results, Courses etc
- Manage the information of Examinations
- Shows the information and description of the Students, Marks
- To increase efficiency of managing the Students, Examinations
- It deals with monitoring the information and transactions of Courses
- Manage the information of Students

1.3 Scope

It may help collecting perfect management in details. In a very short time, the collection will be obvious, simple and sensible. It will help a person to know the management of passed year perfectly and vividly. It also helps in current all works relative to MCQ Quiz Application. It will be also reduced the cost of collecting the management & collection procedure will go on smoothly.

Our project aims at Business process automation, i.e., we have tried to computerize various processes of MCQ Quiz Application.

In computer system the person has to fill the various forms & number of copies of the forms can be easily generated at a time. In computer system, it is not necessary to create the manifest but we can directly print it, which saves our time.

- To assist the staff in capturing the effort spent on their respective working areas
- To utilize resources in an efficient manner by increasing their productivity through automation.
- The system generates types of information that can be used for various purposes.
- Be easy to understand by the user and operator Be easy to operate
- It satisfies the user requirement

Chapter 2

❖ Problem Definition

In current system, checking answer sheets after test wastes the examiners time. Also, the examiner has to take efforts for checking the answer sheets. SO, this application will do the needful and examination can take place in an effective manner.

❖ Solution Proposed:

To computerize the existing system and help examiners to save their valuable time and important data. This project will help the examiner to manage their job and provide a better service to the candidates.

Chapter 3

3.0 Proposed System:

To computerize the existing system and help examiners to save their valuable time and important data. This project will help the examiner to manage their job and provide a better service to the candidates.

1. To create an appropriate platform for managing MCQ tests.
2. To overcome the time-consuming issues.
3. To declare the marks of the tests as soon as possible.
4. To manage information of different tests.

3.1 Features and Functionality: -

1. Product and Component based
2. Creating & Changing Issues at ease
3. Query Issue List to any depth
4. Reporting & Charting in more comprehensive way
5. User Accounts to control the access and maintain security
6. Simple Status & Resolutions
7. Multi-level Priorities & Severities. Targets & Milestones for guiding the programmers
8. Attachments & Additional Comments for more information
9. Robust database back-end
10. Various level of reports available with a lot of filter criteria's It contain better storage capacity.
11. Accuracy in work.

Chapter 4

Project Outcome:

1. User Can log in

2. User can able to insert questions and conduct a test.

3. Users are able to see their scores after attempting the test.

4. Teacher can able to observe the result of all students who have attempted the test.

5. Examiners are able to punch the MCQ questions.

6. Users can solve questions for particular subjects.

7. Examiners can manage the information regarding exam. 4. Correct answers will be evaluated by system.

8. Users can see their score after submitting the test.

9. This can be used in educational institutes as well as in corporate world.

10. No restrictions like the examiner have to be present while the candidate is attempting the test.

11. We can able to check the correct answers as fast as possible. 4. Also the candidate can able to see their score after submitting the test.

Chapter 5

Hardware Requirements: -

- Hard Drive: 20 Gb or more
- RAM: 200 Mb and above
- Processor: Intel i3 and above, MLX and above.

Software Requirements: -

- Operating System: Windows 7 and above, MacOS X and above
- Language: Java (17.0.1) LTS
- Knowledge of Java Swings and Object-Oriented Programming.
- Development Tools: Eclipse IDE

Chapter 6

Project Design:

In this phase, a logical system is built which fulfils the given requirements.

Design phase of software development deals with transforming the client's requirements into a logically working system.

Normally, design is performed in the following in the following two steps:

1.Primary Design Phase:
In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimising the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2.Secondary Design Phase:
In the secondary phase the detailed design of every block is performed. The general tasks involved in the design process are the following:

1 .Design various blocks for overall system processes.

2.Design smaller, compact and workable modules in each block.

3.Design various database structures.

4.Specify details of programs to achieve desired functionality.

5.Design the form of inputs, and outputs the system.

6.form documentation of the design.

7 .System reviews.

User Interface Design

User Interface Design is concerned with the dialogue between a user and the computer. it is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

The following steps are various guidelines for User Interface Design:

1. The system user should always be aware of what to do next.
2. The screen should be formatted so that various types of information, instruction and messages always appear in the same general display area.
3. Message, instructions or information should be displayed long enough to allow the system user to read them.
4. Use display attributes sparingly.
5. Default values for fields and answers to be entered by the user should be specified.
6. A user should not be allowed to proceed without correcting an error.
7. The system user should never get an operating system message or fatal error.

Chapter 7

Conclusion: -

Our project is only a humble venture to satisfy the needs to manage their project work. Several user-friendly coding has also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points

1. A description of the background and context of the project and its relation to work already done in the area.
2. Made statement of the aims and objectives of the project.
3. The description of Purpose, Scope, and applicability. We define the problem on which we are working in the project.
4. We describe the requirement Specifications of the system and the actions that can be done on these things.
5. We understand the problem domain and produce a model of the system, which describes operations that can be performed on the systems.
6. describes operations that can be performed on the system.
7. We included features and operations in detail, including screen layouts.
8. We designed user interface and security issues related to system.
9. Finally the system is implemented and tested according to test cases.

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