

ONLINE QUIZ APPLICATION DEVELOPMENT

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I. INTRODUCTION

The '**Quiz System**' project will be developed to overcome the time consuming problem of manual system. Apart from that in current system, checking the answer sheets after taking test, waste the examiners time, so this application will check the correct answer and save the examiner time and carry the examination in an effective manner. The users which are use this system don't need to high computing knowledge and also system will inform them while entering invalid data.

The aim of this project is to computerized the existing manual system and help the examiners to save their valuable time and important data. Apart from this, data which are exist in this system, will exist for long period of time and will be easy accessible. This project helps the examiners to manage their services in a good way and provide a better service to their users.

The objective of this project is to manage the details of students, examinations, marks, courses and papers in a good manner. The performance of the application will be fully control by administrator and administrator can guaranty any one to access. The project will reduce the manual process in managing examinations and all issues regarding that.

To design and implement this project we plan that the project support to different types of users apart from its administrative part. When project is run for the first time it allowed the user to select as who he/she wants to login in the system. Project support login as teacher and login as student. If a user who is student, try to login as teacher system will not allow him and vice versa. User who add as teacher in system will be able to punch test and questions to system and also will be able to observe the result of the student which attempt tests. User who login to system as student will be able to select a particular test and attempt questions depend on this test. After attempting the test and submitting that user will receive a message that you have attempt the test successfully and if the user tries to attempt the same test, system will not allow him/her. Also a user which login to system as student will be not able to observe the result of test he/she attempt.

Project Objectives

- Able the examiners to punch the MCQ questions online;
- Able the users to solve the questions online;
- Examiners can manage the information regarding exam;
- Correct answers will be evaluated by system (First it should be determining by examine)
- To create an appropriate platform for best managing of MCQ test;
- To overcome the time consuming issues and taking MCQ tests;
- To release the marks of the test taker as soon as possible;
- To manage the information of different tests. er);

Problem Statement

In this quiz application which is designed and implemented in Quiz System on time constraints based we try to overcome the existing problems with following features:

- To Remove source confuse issue
- For Better management
- For Connection to database for better storing of data
- To Better frontend management
- To Better backend management

- To Try to decrease error issuer during runtime.

II. LITERATURE SURVEY

Literature Survey for problem identification and specification

Viska Mutiawani ,Najmuddin Amrin, Kurnia Saputra, Dalila Husna Yunardi Informatics Department from Syiah Kuala University Banda Aceh, Indonesia. In this case, the researchers conducted a survey for 20 students of the Informatics Department class of 2015 randomly. The question is, "Have you ever experienced a failure to answer the quiz, as a result of an internet connection?". From the results of a survey of 20 students, the researchers found that 15 of them answered that they had. Based on this simple survey, the researchers can conclude that the opportunity for 20 students of the Informatics Department class of 2015 who have experienced failure while taking the quiz is 75%. This shows that the chance of failure is quite often, but this survey is just a preliminary survey that has not been able to represent the true probability of failure.

Adarrsh Paul, Rajat Kumar Singh, Jayant Singh, Tulasi Sai Shweta U.G. Scholar, Computer Science & Engineering, SRM University, Tamil Naidu, India. The Quiz App is rated in the top 5 aptitude applications in android market developed by Sindu Rajan and designed by Yalini Kumaraguru. Pocket Aptitude is a collection of 10+ quantitative aptitude questions and word problems frequently asked in competitive examinations and placement papers. It is designed as a preparation tool for job aspirants and those waiting to crack CAT, NTSE and various bank exams. People with an inclination towards mathematics can use this app to sharpen their IQ, test their aptitude skills and enrich their knowledge. This application has various fine points and flaws provides good user interface but only for practice test but the questions being asked are of old pattern and not in trend. The main moto is to make this app work faster and efficient enough for students to make most out of it. The Logical Reasoning and Aptitude application developed by team is also popularly used aptitude test application. Logical Reasoning helps in improving problem-solving skills by focusing on Logical Reasoning Questions. Logical Reasoning will help you in preparation of admissions tests and other different kind of exams, but the user interface is not interactive, the user has to scroll horizontally to view the entire answer. It just has MCQ's for test and score evaluation.

Vaibhavi Balaji Kunale, Sharvari Sandiip Shinde, Shelke R.B Student, Department of Computer Engineering, MM Polytechnic, Pune, Maharashtra, India Android is rapidly getting famous, and therefore the number of its users are increasing day by day, because it's easy to access the required Android-based apps on tablets and smartphones . Therefore, we found the use of the Android App is less complicated and longer efficient to facilitate the users during this way with none difficulty. Fig 1 Applications and widgets Application Programming Interface Libraries Android runtime Android Architecture reduces the time of development and can reduce the quantity of memory that is required by the appliance. In Future we are able to include redesigned an friendlier user interface because the application targets various levels of users starting from sophisticated programmer to naive users Android is most used Mobile OS worldwide. making an android app isn't as difficult mutually think about.

III. REQUIREMENTS SPECIFICATION

Hardware Requirements

Name of Components	Specification
Computer System	RAM: 4 GB Processor: Intel dual core(64 bit)
Operating System	Windows 7/10

Software Requirements

1. XAMP SERVER
2. VS CODE (Text Editor)
3. GITHUB

Implementation Constraints

- **Design** : HTML, CSS, Bootstrap, JavaScript, Ajax, JQuery .

- **Language:** PHP
- **Platform for Deployment:** Php Storm.
- **Database:** MySQL

IV. METHODOLOGY

Following steps will be followed in this methodology:

- Initiation (Requirement Specification);
- Planning and design;
- Execution (construction and coding);
- Validation (Testing);
- Closure (Installation and Maintenance).

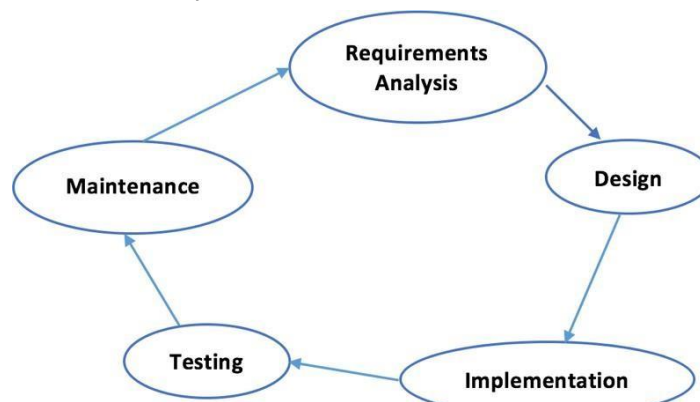


Figure 1: SDLC Diagram of Project

Use-Case Diagram

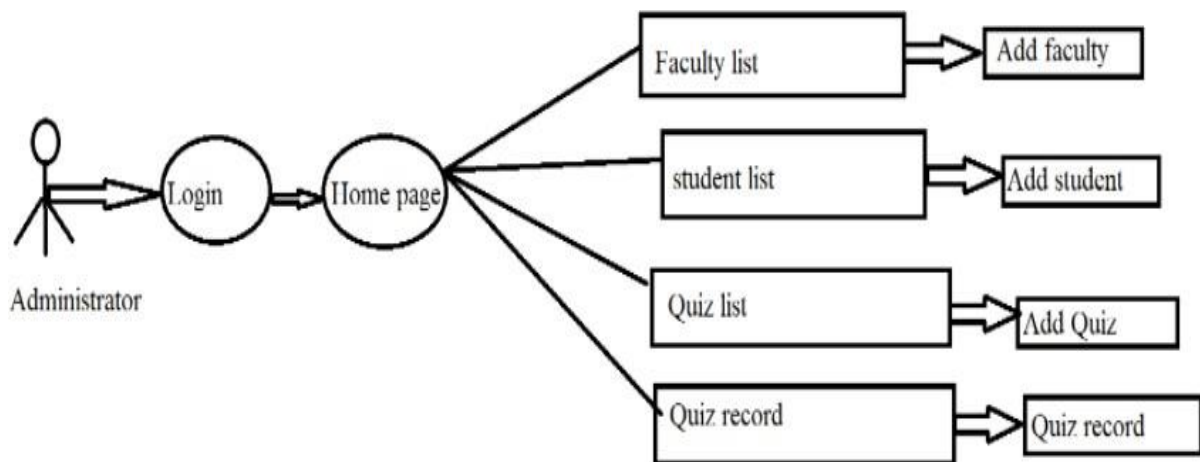


Figure 2: Use-Case Diagram for Admin Login

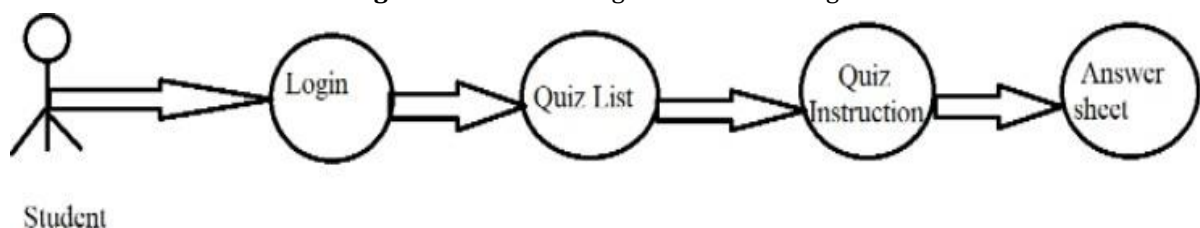


Figure 3. Use-Case Diagram for Student Login

V. MODULES OF PROJECT

1. Home Page – This page is the welcoming page or the page where the user is redirected after logging in to the system. On this page also, quizzes summary can be seen.

Online Quiz Application

2. **Login Page** – This page helps to secure the project data and also to helps to manage users' access.

Login

Email - id

password

LOGIN

Don't have an account [Register here](#)

3. **Faculty Page** – On this page, the administrator will manage the faculty list such as creating new and updating and deleting data of the faculty.

Simple Online Quiz System
Administrator ↗

Home

Faculty List

Student List

Quiz List

Quiz Records

Student List

+ Add New

Show 10 entries
Search:

#	Name	Subject	Action
No data available in table			

Showing 0 to 0 of 0 entries

Previous
Next

4. **Student Page** – At this. page, both faculty, and administrator can manage this page. This is where student data are listed and being managed.

Student-List

S.N.	Name	Gender	Roll no	Branch	Phone no	Action
1	ABC	Female	12	CSE	9999999999	<input type="button" value="Save"/> <input type="button" value="Delete"/>
2	XYZ	Male	21	CSE	9999999999	<input type="button" value="Save"/> <input type="button" value="Delete"/>

5. Quiz Details for Faculty – This page is where can faculty create quizzes and add students who can take the quiz. On this page, the Administrator can also manage quizzes.

Quiz - Details

Enter Quiz Details

☐ Yes ☐ No

Question Details - :

Question

- ☐ Option 1
☐ Option 2
☐ Option 3
☐ Option 4

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Overall Summary

Previous

Save & Next

6. **Quiz List for Student** – This page where student quizzes are listed.

1 All

0 Completed

1 Yet To Start

0 Resume

0 Expired

Search

Q

MSBTE Demo Exam

Start: Sep 24 2020 3:00PM

Expired: Sep 28 2020 11:59PM

Time Zone : India Standard Time

No Of Questions: 229

Exam Duration: 30 Minutes

Time Remaining: 30 m: 0 s

Proceed

7. **Answer Sheet Page** – This is the page where the student will answer their quiz.

Question no - :

Question

☐ Option 1
☐ Option 2
☐ Option 3
☐ Option 4

Previous Save & Next

☐ To be Reviewed later

End exam button available on last question

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Overall Summary

Current Question

Total Attempted : 20

4 Attempted & Not Review

1 Attempted & Review

Total Not Attempted : 15

8. Quiz Record Page – On this page, admin and faculty can see the records of the students each quiz.

Simple Online Quiz System
Administrator

Home	<div style="border: 1px solid #ccc; width: 80%; margin: 0 auto; padding: 10px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%; text-align: left;">Quiz</th> <th style="width: 33%; text-align: left;">Items</th> <th style="width: 33%; text-align: left;">Had Taken</th> </tr> <tr> <td colspan="3" style="height: 40px;"></td> </tr> </table> </div>	Quiz	Items	Had Taken			
Quiz		Items	Had Taken				
Faculty List							
Student List							
Quiz List							
Quiz Records							

VI. CONCLUSION

Quiz System is a software developed to conduct an Online Quiz based on time constraints. Quiz System is accessed by entering the username and e-mail id which is added to the database. Before start of the Quiz, the rules and regulations are displayed that includes description of time limit, number of questions to be answered and scoring methods. Quiz is started by displaying no. of questions with four options. If the answer is correct, scores incremented by two and no negative marks for wrong answers. If the time exceeds or user click on submit the quiz is stopped. Final score will be displayed and updated in the database with username.

VII. REFERENCES

- [1] <https://www.freeprojectz.com/premium-synopsis/synopsis-mcq-quiz-application>
- [2] <https://www.scribd.com/document/334841504/Synopsis-of-MCQ-Quiz-Application>
- [3] <https://github.com/topics/quiz-app>