

Kaushal Pareeksha

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ABSTRACT

In the world of growing technology, everyone is opting for online. It started with transactions and now examinations are also held in online mode. Though it is convenient for students with remote examinations but most of the students face difficulty when faced with these situations. Kaushal Pareeksha provides a platform for students where they can prepare themselves for any topic. Kaushal Pareeksha helps students to become familiar with the environment for examinations. Almost every examination is held in online mode, but no one is providing a practice platform which help a student to self-evaluate themselves. It provides categories-wise topics to the users with various number of questions.

In this project, we have tried to build it with most essential features required for any exam portal and a platform where students can give mocks. It is not restricted to any field of study. I have tried to cover quizzes from different field of study of various course and branch. For example, programming languages like, Java, Python, C++, etc, subjects like, DBMS, Computer Networks, Software Engineering, Data Structures etc, and many more.

I. INTRODUCTION

In the world of growing technology, everyone is opting for online. It started with transactions and now examinations are also held in online mode. Though it is convenient for students with remote examinations but most of the students face difficulty when faced with these situations. Kaushal Pareeksha provides a platform for students where they can prepare themselves for any topic. Kaushal Pareeksha helps students to become familiar with the environment for examinations. Almost every examination is held in online mode, but no one is

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It helps students to learn new things with experience. As we know that today most of our exams are held in the form of online exam. Since technologies are growing faster, we must be aware with them as well. In the era of digitization, abstract examination system can be tedious job when implemented by traditional methods like writing on the piece of paper and someone evaluating it. It not only takes much time but also put delay in declaration of result. Now most of the companies are opting for online way of holding assessments for hiring purposes. It was easy for them to come up with the test design and evaluating factors, but the problem lies with the person who attempt these tests. Issue of not being familiar with the system, time allotted with the question asked and the terms of being evaluated may cause difficulty to the students.

In order to understand the reason of failure of those students who appeared for these tests, we conducted a small survey asking as many students as possible to figure out the places where they were lacking plus what can be done to help them achieve their goal. After conducting the whole survey, we concluded that they were not well prepared for the test pattern which usually comes in these exams. They said that while giving the exams of their semester are easy as they are very much

familiar with the exam as well as content for these tests are also widely available for them to self-evaluate.

Now a days there are many websites or platform which offer students the content to prepare themselves. These websites only provide contents to the students like school provide students with books and notes. One can easily go through them and gain knowledge, but the root cause of failure is not being able to manage time. They were able to solve almost all the question, but it was difficult for them to do it within same the time frame.

The main aim of our project is to develop a system or a platform which allow these students to prepare themselves with these test design that that they often face. It is very crucial for them to know how time management can affect their performance. Most of their test questions are based on code snippets which require them to solve them. But if they are prepared enough by giving mocks multiple times it will improve their speed of answering quickly.

- Presently, most of our exams are conducted in online medium, thus adapting new rules of evaluation for us, Students.
- We might have knowledge about our field of study but appearing for test is another thing.
- We are not judged solely on our knowledge but how well prepared they are for the exam by managing time.
- Management of time is the crucial factor in online assessments because sometimes merit is based on how quickly the answers were given.

II. RELATED WORK

Previous work has proposed several ways to ensure that students can get enough practice with different types of questions with level of difficulties. This approach is to use a basic concept of JavaScript, html, and CSS. One can additionally upload thousands of questions regarding a particular topic.

1. **Name:** Students Views on Online Examination Practices in Universities.[7]

Author: Oppong Samuel Rosemond Yeboah

Description: Much attention has been given to online examination practices in this twenty first

century as the growing population and education needs require associated technologies to bring about the achievement of the desired educational 23 goals of nations. According to Kotwal, Bhadke, Gunjal, & Biswas online examination system is a software solution, which allows any industry or institute to arrange, conduct and manage examinations via an online environment.

Drawbacks: In this system, online portal is limited to universities. Any one outside the universities won't be able to access this system for their personal learning as this system will only target the specific universes.

2. **Name:** Online Examination Portal.[6]

Author: Aditya Trivedi, Vinayak Karajagikar, Hemant Sakhare, Shivharsh Pandey

Description: Classes along with the growing number of students to be tested for final examination raise unprecedented challenges relating to the management, monitoring and evaluation of learning. Technology may provide some solutions that deserve to be investigated. This paper explores the potentialities and limitations of Computer Based Testing (CBT), specifically BYOD test, compared to traditional Paper-Based Testing (PBT) to verify whether, and to what extent, an electronic mode of assessment can become a suitable alternative to PBT.

Drawbacks: Offline evaluation of any paper takes time when it is done manually but it is one of the best as online examinations are fruitful only when correct answers are specifically defined as in the form of Multiple-Choice Question. According to this report, online examination is online better when targeting large audience but it can be used in many ways.

3. **Name:** Online Examination Portal.[3]

Author: Singh Dipendra, Vishal Singh Kahlon, Kavyashree N

Description: The web application is designed for providing online examination to various institutes, colleges and Recruitment Company. Online Exam Portal provides easy way to handle the online exam. By using online method of examination institutes can complete the examination in a single day. Online exam Portal provides various types of exam questions like multiple choice questions, multiple answer question, true-false, matching type questions and written answer questions. Online Examination Portal provides features to generate result after the examination finished. It also provides various format types of student results like pdf, excel etc. Online Examination framework give remotely access to understudies. It assists the inspector with reducing the work of leading exam, checking answer sheets and producing result. All these works are finished by the machine. All the information is put away on the server.

Drawbacks: The drawback of this system is that it is not providing a platform where students can do their own practice of such examination. It is a type of platform that allows other to give exams of specific organization, colleges and any recruitment company it is not designed to help student practices and do their own learning.

4. **Name:** Exam Portal [\[2\]](#)

Author: Pawan Bharadwaj, Tirumala Balaji G, Valleesh Prabhu, Shreehari N & Rahul Kumar

Description: The developed university examination system is web based, platform independent and it can be easily used by students from any computer with internet connection and minimum requirements of additional software. The proposed system seems to be far better and efficient in terms of technology and integration point of view. The proposed system will provide a better option for students to appear for the examination.

Drawbacks: The drawback of this system is that it is not providing a platform where students can do their own practice of such examination.

It is a type of platform that allows other to give exams of specific organization, not for their uplifting.

5. **Name:** Exam Portal [\[1\]](#)

Author: Online Quiz Application for Informatics and Information System Students (Task Portal Development).

Description: One of the features of e-learning in the teaching and learning process is that it can display material, practice questions, quizzes, or exams electronically. During this time in UKMC, quizzes are often carried out in a conventional manner using paper that will multiply papers that are not used anymore. The purpose of this study is to create an online quiz application for Information Systems students so that lecturers and students can save time in the process and checking. Making an application can help conventional processes be developed by using technology and in real-time. The process of conducting this research starts from Requirements Planning, User Design, Construction, and Testing / Evaluation until finally the final report is made. The results of this study are to reduce the paperless stack and the interaction between students and lecturers is no longer conventional.

Drawbacks: This system of online exam portal is focusing more on the student teacher curriculum of conducting lectures and conducting exams and producing result of those exams automatically. This type of system is limited to college or university and this system cannot benefit others outside those organisations.

6. **Name:** Quiz Portal: for Students and Faculty using Java [\[4\]](#)

Author: Vikas, B. O., and Anushka Sen.

Description: Instead of the regular pen paper examinations held by various institutions, one can make use of the Quiz Portal. Quiz Portal makes education fun and easier. This system is useful for conducting multiple choice question

examinations, which can be conducted regularly or for surprise tests as well. It provides immediate results saving time. Administrator will have the privilege to create, modify and delete the test papers and its particular questions. The candidate can register, login and give the test with his unique id and can see the result as well. The data in the project is planned to be maintained in the tabular form using SQL* Plus in the form of database. It would provide easy access to the user. Each category questions are to be maintained in the database. This would form the backend of the project. The front end of the project is planned to be implemented using the Java language on the JAVA NetBeans IDE platform. This platform has a lot of advantages, from being able to create simple interface with certain components to connecting database to it directly.

Drawbacks: This system is about creating an admin where he/she will upload tests and registered user and attempt. But this portal is limited to the use of colleges. This type of portal will not advantageous to other outside the college or students from other colleges. This system is designed in a way to provide a quiz system for specific test curriculum that college want to adapt.

7. **Name:** A Centralised Portal for a Student Support System based on Web Application.[5]
Author: Sharma, Kamal, R. M. Gomathi, and Yahya Ibrahim Imtiaz.

Description: In recent times, one has seen the drastic rise of digital content. Educational institutes have also adapted to this new change. As the learning happens on a virtual basis, each institution has their own preferred set of applications for emulating the physical activities in the digital platform. As the number of applications used by the institution goes up, it raises a hurdle in aggregation of the data from the various sources - be it attendance, fee payment or even the examination. The most common issue faced by the student with regard to academics is the login issue. As these

services are provided by third party applications, it takes time to get them resolved. Apart from the academic aspect, the extra-curricular activities such as the club activities have also taken a hit. For an offline event, usually these clubs go canvassing class-by-class to spread the word of their upcoming event.

Drawbacks: This system is not totally focusing on the educational learning or creating a platform where student can give mock test for their practice and understanding. This system is tried to create a portal where multiple events can take place like education, extra-curricular activities such as club activities, etc. This system's focus on broader range of handling a college activity not focusing alone on education at universal stage.

III. SYSTEM ARCHITECTURE

The whole project is divided into modules and their sub-modules. Each module has its own specifications.

There are three modules:

1. User Module.
2. Normal Login Module.
3. Admin Login Module.
4. Exam Module

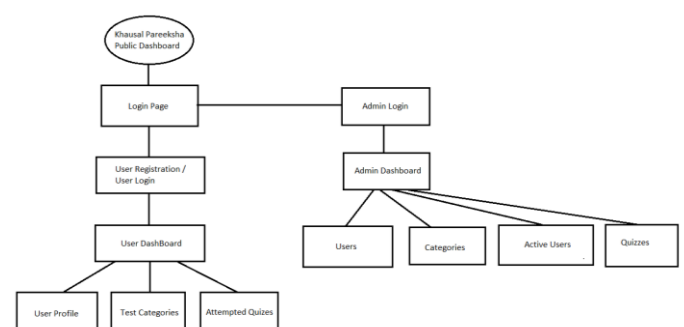


Fig: Flowchart of Kaushal Pareeksha

User Module

User Module contains two sub-modules. Two sub-modules are Register and Login.

Register

This module is only provided for Normal user. Normal user enters his/her valid details and get registered. Now they can go to login page and get logged in to their accounts.

Admin details are stored in database by the person who owns the software. Owner can create as many admins as he wants.

Login

It contains two type of login authorities:

1. **Normal Login** - This type of login is provided for the students. After registering user can go to login page. Enter username and password then, get logged in to their accounts.
2. **Admin Login** - This type of login is for the person who is providing students with various quizzes. After getting themselves registered they can go to the same login page. Enter username and password then, get logged in to their accounts.

Normal Login Module

Normal Login Module contains four sub-modules. Their specifications are:

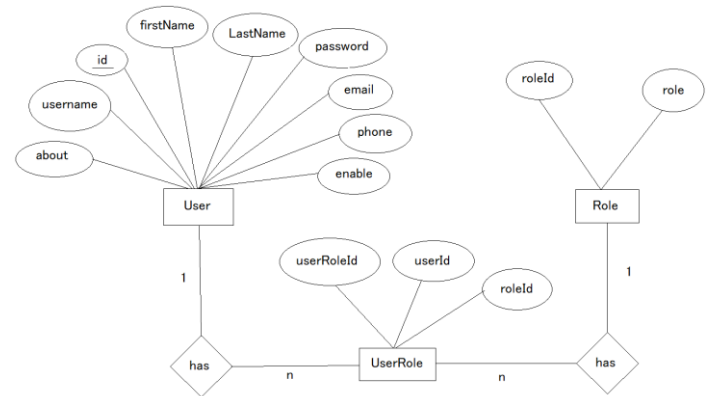
1. Show Quiz by Category – this module shows all the quizzes in the database category by category.
2. Take Quiz – this module will show all the questions of the quiz along with the timer.
3. Result Download – this module will show the result and will also download the result.
4. Attempted Quiz – this module will show all the quiz that the user has attempted so far.

Admin Login Module

Admin Login Module contains four sub-modules. Their specifications are:

1. Category Operations – this module will help the admin to add, delete and modify categories.
2. Quiz Operations – this module will help the admin to add, modify, delete, publish a quiz etc.

3. Question Operations - this module will help the admin to add, modify, delete, questions etc.
4. Quiz Analysis – this module will tell



analysis of the quizzes.

Fig: User-Role ER Diagram

Exam Module

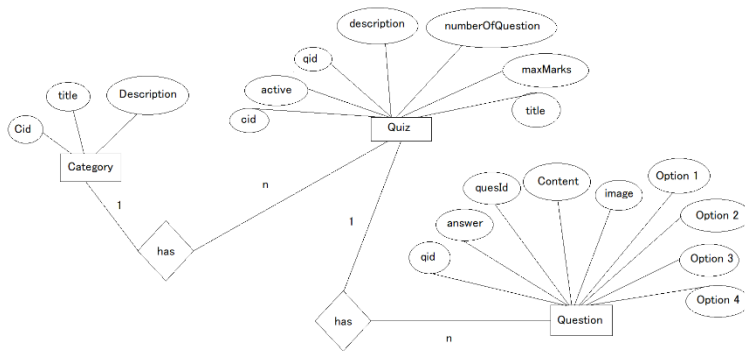
In exam module we have defined how user will give the exam. Exam module contains three submodule which are as follows:

1. Category: It defines the type of quizzes available on the portal. It is updated by the admin and admin can perform all kind of operations like create, update and delete. The category can be of many types such as programming, aptitude, Java, web development, etc.
2. Quiz: The quizzes will belong to a particular category. It will show how many tests are available inside a particular category. For example, in java core category, there are quizzes like java basic quiz, java conditions statement quiz, java string quiz, etc.
3. Questions: Each quiz will consist of many questions related to the category it belongs.

In exam module, Admin can easily add categories using the 'add category' option. Also, admin can provide many quizzes related to that category. It is up to the admin to define the number of questions and maximum marks of each quiz. Admin has to

upload questions in the quiz using the 'add question' option.

In user module, user will be able to see the categories available. On the home page of user, he



will be able to see all the available categories and, he will be able to see the quizzes on that category. In each quiz, he tries to attempt, timer will start, and all the questions will be fetched from the database.

Fig: Exam ER Diagram

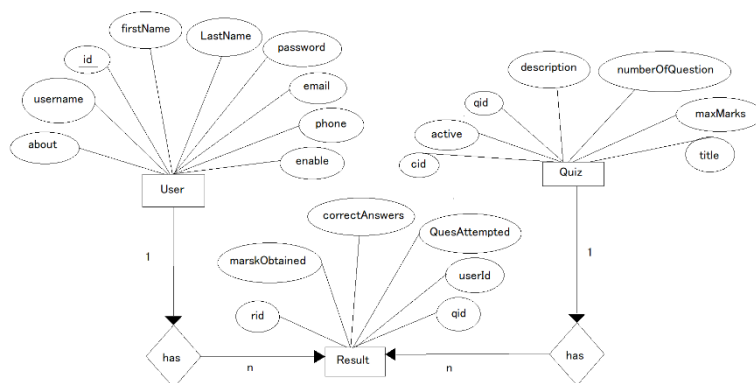


Fig: Result ER Diagram

V. Conclusion

In the era of digitization, abstract examination system can be tedious job when implemented by traditional methods like writing on the piece of paper and someone evaluating it. The motivation behind this project is to simplify the means by which students can practice these papers and appear for them any time they want.

The objectives we achieved by this project:

- Platform that provides users with examination experience by providing mock test papers.
- They get enough practice to appear on the actual exam without any fear.

- They get a better understanding of how to manage time better in case of pressure.
- Every time they give wrong answers, they gain knowledge, and they get them right on the actual test.
- Any student gets their desired categories to prepare for the test.

VI. FUTURE SCOPE

Kaushal Pareeksha will be a website where students from various domain can practice the subjects for their exams. Right now, it will be covering the most trending topics like computer programming, DBMS, Web Technology, etc.

- Presently, most of our exams are conducted in an online medium, thus adapting new rules of evaluation for us, Students. This website provides you with such a platform.
- We might have knowledge about our field of study but appearing for a test is another thing. Multiple tests can help you to judge your knowledge.
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VII. REFERENCES

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