**A PROJECT REPORT ON**

**E-QUESTION GENERATOR AND ONLINE TEST**

**MASTERS OF COMPUTER APPLICATIONS (MCA)**

**OF**

**CHRIST UNIVERSITY, BENGALURU**



**SUBMITTED BY\**

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**To perform the system analysis task for your system**

1. **Requirement analysis**
2. **SRS**

**ABSTRACT**

**Introduction**

The project entitled E-question generator and Online Test System is developed as part of MCA 3​rd semester RDBMS project for generating random questions which have been manually inserted in the database. The user can conduct online tests if he wants. The project also contains an e-commerce website where only the books would be available and the user could buy it.

1. **Purpose**

The main of this project is to develop a web application for the students or any other individual who is preparing for any competitive exam and opts for self-learning. This website gives us the tour for many different subjects such as Aptitude Learning, Mathematics, Reasoning, Interview Questions etc. Individuals can learn on their own without depending on any teacher or tutor.

1. **Overview**

* The main aim of this project is to develop a web application which automatically generates questions and conduct the tests for personal assessment. All those users who are willing to study on their own can sign up to this question generator and help themselves to prepare for any competitive or any other kind of exam.
* This website also focuses on the current affairs going around the world. It helps you to stay connected with the world.
* One additional feature with this website is that the user can buy books online related to their choice of interest and preparation of any competitive exams.
* The nearby book shops are also made available, so that the website becomes a complete package for the user and helps him/her to focus on their goal.

1. **Scope**

* Customer must have a valid User Id and password to login to the system
* If a wrong password is given five times in succession, that account will be locked and the customer will not be able to use it. When an invalid password is entered a warning is given to the user that his account is going to get locked.
* After the valid user logs in he is shown the list of packages and booking of the cabs.
* On selecting the desired packages, he is taken to a page which shows the different places in that particular packages.
* User can pay the money using online banking.
* User can cancel the booking by the same way he has booked the packages using cancelation option provided in the webpage.
* When user books any of the package an email will be send to his mail ID for the confirmation of his booking.
* User can book the services provide by the website that is the self-driving car
* User can view his booking history
* Generate printable bill at every booking
* Administrator can take a backup of the database for every booking that is happening, periodically.
* All users are authenticated to avail the services
* FAQ section is also included for end users benefit.

**D. Hardware and Software Requirement:**

1. Software Requirement

2. Hardware Requirement

1. **Software Requirement :**

Operating System **:** Windows-XP, Windows-7,Windows-8

Toolkit **:** Notepad++, XAMPP

Platform **:** PHP, BOOTSTRAP

Database **:** MySQL DataBase Server

1. **Hardware Requirement:**

Processor **:** i3

RAM **:** 4 GB

HD **:** 1 TB

**Front End Technology:**

**HYPERTEXT PRE-PROCESSOR (PHP) -**

The full form of PHP is “PHP Hypertext Pre-processor”. But its original name was “Personal Home Page”. Rasmus lerdorf software engineer, Apache team member is the creator and original driving force behind PHP. The first part of PHP was developed for his personal use in late 1994. By the middle of 1997, PHP was being used on approximately 50,000 sites across the worldwide.

PHP is a one type of server-side scripting language, which can be embedded in HTML or used as a stand-alone. PHP does not do anything about what a page looks and sounds like. In fact, most of what PHP does is invisible to the end user. Someone looking at PHP page can not necessarily be able to tell that it was not written purely in HTML because usually the result of PHP is HTML.

PHP is fully cross –platform meaning it runs native on several flavours of UNIX, as well as on Windows base system. The PHP allows web developers to create dynamic pages for e-commerce and web applications that are interact with databases. When we embed the PHP code into HTML code at that time if we make a PHP file then we have to give the extension of that file is .php. It provides those servers with functionality similar to that provided to windows platform by Active Server Pages technology. It is database supported means we can access commercial and non-commercial databases including Informix, Microsoft SQL server, MySQL, ODBC, Oracle etc.

**HYPERTEXT MARKUP LANGUAGE (HTML) -**

A simple markup language used to create hypertext documents that are portable from one platform to another. HTML files are simple ASCII text files with codes embedded (indicated by markup tags) to denote formatting and hypertext links.

Many people who use HTML to create Web pages or other documents find Notepad a useful tool for writing in HTML. Because Notepad supports only very basic formatting, you cannot accidentally save special formatting in documents that need to remain pure text. This is especially useful when creating HTML documents for a Web page because special characters or other formatting may not appear in your published Web page or may even cause errors. Many word processors provide additional tools or converters to help you create HTML documents. But, if you are creating simple pages or if you want to make a few quick changes, Notepad opens files quickly. Also, Notepad shows all of the HTML tags so you can troubleshoot your page. Not all word processors or converters make the HTML code available.

**JAVASCRIPT**

**JavaScript** is an object-oriented scripting language used to enable programmatic access to objects within both the client application and other applications.

It is primarily used in the form of client-side JavaScript, implemented as an integrated component of the web browser, allowing the development of enhanced user interfaces and dynamic websites. JavaScript is a dialect of the ECMA Script standard and is characterized as a dynamic, weakly typed, prototype-based language with first-class functions. JavaScript was first developed by Netscape as an open scripting language to create interactive web pages. JavaScript as an open language implies that it can be used by anyone; no license is required to use JavaScript.

JavaScript has the ability to function both as an object oriented language as well as procedural language. Using JavaScript, you can create objects, attach methods and properties.

**BOOTSTRAP**

**Bootstrap** is a free and open-source front-end web framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many web frameworks, it concerns itself with front-end development only.

**Back End Technology :**

**MySQL SERVER**

A database management system must be able to reliably manage a large amount of data in a multi-user environment so that many users can concurrently access the data. A database management system should also provide security and failure recovery.

MySQL is the name of a database management system Developed by Apache Software Foundation. Apache Software Foundation provides various software’s related to web development; the biggest advantage is that all the software’s are free of cost. MySQL is most popular database management tool. It provides better security and data recovery against system failure.

MySQL works faster compared to other Database Management tools. Apache Software Foundation provides GUI to work with MySQL, because of its GUI environment it is very easy to understand any novice user can quickly learn MySQL by using phpMyAdmin developer. We can create databases and maintain it through phpMyAdmin developer. It provides GUI so it is easy to understand and learn.

MySQL is a database management system, which helps us to manage data stored in a system database. Programming skills is not required to use MySQL as database management system. phpMyAdmin hides all the complex tasks of managing a database and gives a user-friendly way of managing a database.

**Functional Requirements:**

1. **Admin Module:** Admin adds, deletes and modifies the questions manually to the database. He takes care and manages the web application.
2. **User Module:** User can use the website to attempt online tests. He/she can purchase related books from the online book store. Based on the user’s location, he/she can get to know about the nearby books stores in the locality.
3. **Book Module:** This module consists of the list of books available for sale in the online book store. It also consists of the related information such as author, category, price etc.
4. **Institution Module:** If any institution wants to link to the web application, they are also welcomed. The institution can conduct online tests using our website. This module consists of the institution details such as contact information, address, institution id etc.

**Future of the project**

•In future, we will give facility for the customer for taking the cab and self-driving service from the website, within a limited period of time where they want to travel.

•We will include more functionality as per user requirement.

•Not a single website is ever considering as complete forever firstly because there is always something new requirement also are growing day by day.

•We want to improve our home page, as it is the main thing which attracts all users.