**A PROJECT REPORT ON**

**E-QUESTION GENERATOR AND ONLINE TEST**

**MASTERS OF COMPUTER APPLICATIONS (MCA)**​

**OF**

**CHRIST UNIVERSITY, BENGALURU**



**SUBMITTED BY**

**AMANVEER SINGH KHERA SAKINA NAAZ**

**Reg No-1647204 Reg No- 1647242**

**TONY MANUEL**

**Reg No-1647249**

**1.1 TITLE OF THE PROJECT**​

E-QUESTION GENERATOER AND ONLINE TEST

# 1.2 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.

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.

# AIMS & OBJECTIVES​

## AIM OF THE PROJECT

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.

## OBJECTIVES OF THE SYSTEM

1. Users can login at any time and start the learning process.

1. Separate login is made for the colleges, in order they want to conduct any online tests.

1. Users can view their performance as they complete their tests. This would help them to monitor their progress and know how much effort they need to add more to the learning.
2. Relating books can be purchased through the website which will help the user to get clearer with the topic and make the concerned topic strong.

## ADVANTAGES OF THE PROPOSED SYSTEM​

The advantages of proposed system are:

1. Users can conduct tests online without going out to different tutors which sometimes does not really help.
2. Books available on the website is a helpful component. Books are related to particular subjects, which will help to make the basics strong.
3. Nearby book store details are available, so that the user can go and purchase required books.
4. Can cover lots of content areas on a single exam and still be answered in a class period.

## LIMITATIONS OF THE PROPOSED SYSTEM​

1. Admin has to keep record of all the questions. Adding questions to the database is also a very tedious task.
2. If the server goes down, the test won’t be continued.

**Tables**

**tbl\_author**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| authorId | Int | Primary Key | Store author id |
| authorFName | text |  | To store author first name |
| authorLName | text |  | To store last name |
| authorAddress | Varchar |  | To store address |
| authorCity | Text |  | To store city |
| authorPincode | Int |  | To store pincode |
| authorState | Text |  | To store state |
| authorEmail | Varchar |  | To store email |
| authorContact | text |  | To store phone number |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **tbl\_bookprice** |  |  |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| bookId | Int | Foreign Key | Reference to book table |
| vendorId | tinyint | Foreign Key | Reference to vendor table |
| Price | float |  | To store price of a book |

**tbl\_books**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| ISSN | Int | Primary Key | Store iss of a book |
| bookName | text |  | To store title of the book |
| categoryId | tinyint | Foreign key | Reference to category table |
| authorId | tinyint | Foreign key | Reference to author table |
| publisherId | tinyint | Foreign key | Reference to publisher table |
| coverPage | varchar |  | Relative path of cover page image |

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| categoryId | tinyint | Primary Key | Categories like gk,maths etc |
| caegoryName | text |  | To store title of the category |

**tbl\_category**

**tbl\_exam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| examId | tinyint | Primary Key | TO store exam id |
| userId | text | Foreign key | Reference to user signup table |
| categoryId | tinyint | Foreign key | Reference to category table |
| qAtempted | tinyint |  | To store the number of questions attempted |
| ansCorrect | tinyint |  | To store correct answers |
| score | tinyint |  | To store the score of the exam |

**tbl\_institutions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| institutionId | tinyint | Primary Key | To store institutions id |
| institutionName | text |  | To store institutions name |
| institutionAddress | text |  | To store institutions address |
| institutionCity | text |  | To store institutions city |
| institutionPincode | int |  | To store institutions pincode |
| institutionState | text |  | To store institutions state |
| institutionContact | text |  | To store institutions contact number |

**tbl\_instquestions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| institutionId | tinyint | Foreign key | Reference to institution table |
| questionNumber | text | Foreign key | Reference to questions table |

**tbl\_publisher**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| publisher Id | tinyint | Primary Key | To store publishers id |
| publisher Name | text |  | To store publishers name |
| publisher Address | varchar |  | To store publishers address |
| publisher City | text |  | To store publishers city |
| publisher Pincode | int |  | To store publishers pincode |
| publisher State | text |  | To store publishers state |
| publisher Mobile | text |  | To store publishers mobile number |
| publisherPhone | text |  | To store publishers phone number |

**tbl\_questions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| qNo | tinyint | Primary Key | To store question id numbers |
| qCategory | text | Foreign key | Reference to category table |
| question | varchar |  | To store the questions |
| Opt1 | text |  | To store option 1 |
| Opt2 | int |  | To store option 2 |
| Opt3 | text |  | To store option 3 |
| Opt4 | text |  | To store option 4 |
| answer | text |  | To store the correct answer |

**tbl\_user\_signup**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| fname | varchar |  | To store users first name |
| lName | varchar |  | To store users lastname |
| emailId | varchar | Primary Key | To store users email id |
| password | varchar |  | To store users password |
| doj | date |  | To store users date of join |

**tbl\_vendors**

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Datatype** | **Constraint** | **Description** |
| vendorId | tinyint | Primary Key | To store vendors id |
| vendorName | text |  | To store vendors name |
| vendor Address | varchar |  | To store vendors address |
| vendorCity | text |  | To store vendors city |
| vendorPincode | int |  | To store vendors pincode |
| vendorState | text |  | To store vendors state |
| vendorMobile | text |  | To store vendors mobile number |
| vendorPhone | text |  | To store vendors phone number |

**DFD – Data Flow Diagram**

**User –**

STUDENT

Search vendors and display results.

Deliver to the specified address

User result stored and displayed.

Admin

Admin