



# INDUSTRIAL INTERNSHIP REPORT ON

## “ **ONLINE QUIZ**”

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### *Executive Summary*

This report provides details of the Industrial Internship provided by upskill Campus and The IoT Academy in collaboration with Industrial Partner UniConverge Technologies Pvt Ltd (UCT). This internship was focused on a project/problem statement provided by UCT. We had to finish the project including the report in 6 weeks' time.

My project was (ONLINE QUIZ).

This internship gave me a very good opportunity to get exposure to Industrial problems and design/implement solution for that. It was an overall great experience to have this internship.

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## 1. INTRODUCTION

On-line examinations contents providers to focus on creating effective assessment questions and focusing on exam's feedback delivery to students. In the paper we present techniques that are pertinent to the elements of assessment process: answers submission, computerized grading, and feedback after submission.

As the modern organizations are automated and computers are working as per the instructions, it becomes essential for the coordination of human beings, commodity and computers in a modern organization.

The administrators ,instructor,Students who are attending for online examination can communicate with the system through this projects, thus facilitating effective implementation and monitoring of various activities of Online Examinations like conducting Exams as per scheduled basis and delivering result to that particular use or student.And the details of students who attempted Online Examination are maintained at administrator.

### 1.1 Existing System & need of the System

Existing system is a manual one in which users are maintaining books to store the information like Student Details,InstructorDetails,Schedule Details and feedbacks about students who attempted exam as per schedule.. It is very difficult to maintain historical data.

### 1.2Scope of Work

Technological advancements in this era of digitization along with being a boon to the world have been advantageous to the educational sector too. The introduction of online exam software replaced the conventional system of assessment.

The various examination conducting agencies are now able to evaluate the test takers freely and cost-effectively through computer-based tests. Today's article discusses the scope and objectives of an online examination system.

Before proceeding further let us understand the concept of online examination software. Exam software allows users to take online tests and automatically generate results based on the answers marked by the users.

Lets now discuss the reasons for the introduction of online examination in the modes of conducting an assessment.

➤ **Conduct exams effortless:**

Computer-based tests as a method of conducting an assessment enable users to manage an exam easily. The functionalities of an exam software such as user-friendly dashboard, multiple languages, support for multiple question types and formats, detailed reporting, automatic instant results help in smooth conduction.

➤ **Reduce exam anxiety Amongst test takers:**

The flexibility associated with computer-based tests reduces exam anxiety among test takers as they can take the exam at any time of the day that coincides with their preferred sleep/ wake cycle.

➤ **Promote social interaction between the test taker and experts:**

An online environment promotes exam preparation with experts or peers as they can review the course content together. Online assessment possible through exam software lays the real foundation of academic teaching as it facilitates discussion with teachers or other students.

➤ **Prevents cheatings:**

Cheating amongst the test-takers in the examination hall is one of the major drawbacks of pen paper-based assessment. Online examination managed avoids the possibilities of secretly using unfair means to get the right answers. The presence of various functionalities in exam software prevents cheating irrespective of the test taker's location.

➤ **Safe and secure data:**



Various tools offered by exam software have enabled the assessment conducting agencies to manage the crucial data related to examination questions and test-takers safely.

➤ **Reduce administrative burden:**

Organizing and running exams online not only reduces an organization's administrative burden but also saves cost and time. Online examination with its objective to make evaluation massive but simple, cost-effective and faster has replaced the pen paper-based assessment.

The examination managing agencies have started preferring computer-based test to instill their lost faith in the method of conducting an evaluation. Thus online examination software offered by Pesofts is one of the most advanced software for conducting tests.

### 1.3 Operating Environment

#### 1.3.1 Hardware Specification

**Table1:** Hardware Specification

HARDWARE SPECIFICATION	
Client side	
RAM	512 MB
Hard Disk	40 GB
Processor	Intel Core Duo or higher
Server Side	
RAM	2 GB or higher
Hard Disk	80 GB or higher

Processor	Intel Core Duo or higher
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### 1.3.2 Software Specification

**Table2:** Software Specification

<b>Client side</b>	
Operating System	Windows 7& above
Web Browser	IE 6 & above Mozilla Firefox 6 & above Google Chrome 6 & above
<b>Server Side</b>	
Operating system	Windows 7 & above
Database Server	SQL Server 2008& above

### 1.4 Detail Description of Technology Used

Following is the brief description about various technologies used while designing this system.

#### ➤ PHP (Hypertext Preprocessor)

Hypertext Preprocessor is a widely used, general-purpose scripting language that was originally designed for web developments.

#### ➤ PHP Advantages

A popular choice in today's web world is using PHP. PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Its clarity in design, well organized modules and better upkeep of various technologies, make it the most popular language in the online industry today. Its popularity and



credibility can be gauged by the fact that reputed organizations like Harvard University and popular social Networking site Face book, both are based on PHP. This is possible because PHP websites can be easily maintained, improved and updated from time to time.

➤ **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 influenced by many languages and was designed to look like Java, but to be easier for non-programmers to work with. JavaScript was originally developed by Brendan Eich of Netscape under the name Mocha, which was later renamed to Live Script, and finally to JavaScript..

➤ **Apache**

The name 'Apache' was chosen from respect for the Native American Indian tribe of Apache, well-known for their superior skills in warfare strategy and their inexhaustible endurance. It also makes a cute pun on "a patchy web server" a server made from a series of patches but this was not its origin. The group of developers who released this new software soon started to call themselves the "Apache Group".

➤ **MICROSOFT SQL SERVER**

**Microsoft SQL Server** is a relational database management system developed by Microsoft. As a database, it is a software product whose primary function is to store and retrieve data as requested by other software applications, be it those on the same computer or those running on another computer across a network (including the Internet). There are at least a dozen different editions of Microsoft SQL Server aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users. Its primary query languages are T-SQL and ANSI-SQL.

## **2. PROPOSED SYSTEM**

### **2.1 Proposed System**

This application is used to conduct online examination. The students can sit at individual terminals and login to write the exam in the given duration. . The questions have to be given to the students. This application will perform correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams. This application provides the Instructor add questions to the exam, modify questions in the exam in a particular exam. This application takes care of authentication of the administrator, Instructor as well as the student.

### **2.2 Objectives of Proposed system**

The objective of the Online Examination Tool is to provide better information for the users of this system for better results for their maintenance in student examination schedule details and grading details.

### **2.3 User Requirement**

1. User must be computer literate.
2. Each user has their authentication when placing the order. i.e user requested to register first before login.
3. Customer has their mobile number & address required for their authentication.
4. User provide with smart garbage dustbin that must be kept in safe and proper way as the cost of the dustbin is too much so user requested to keep the dustbin like her own dustbin not thought that it's a company product and damage to dustbin the customer will be liable.

### 3 Analysis& Design

#### 3.1 Class Diagram

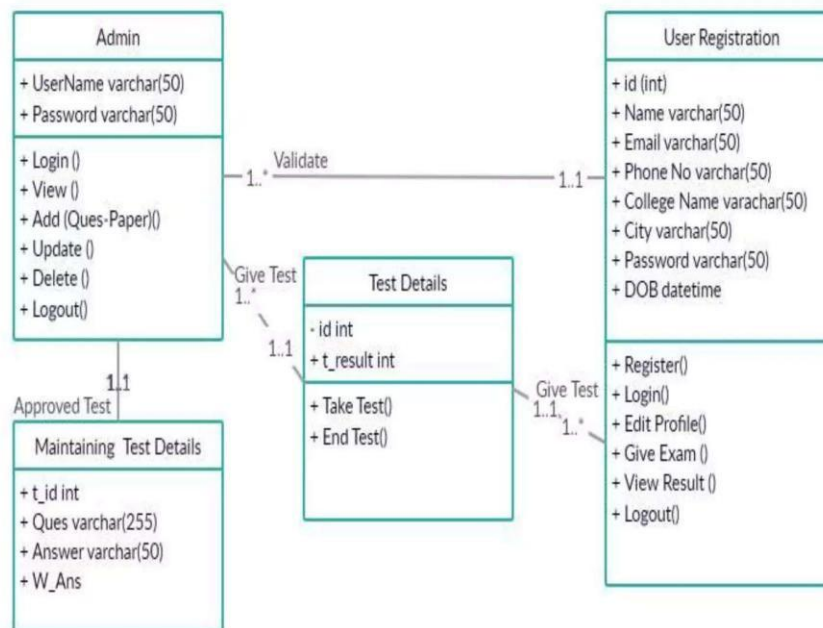
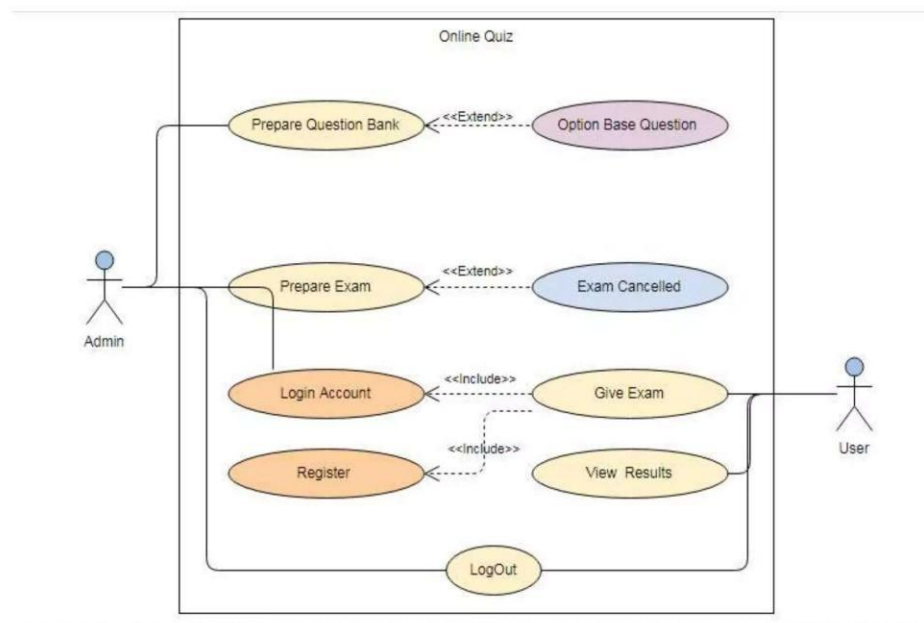


Fig1: Class Diagram

### 3.2 Use Case Diagram



**Fig2:** Use case Diagram

### 3.3 Module Hierarchy Diagram

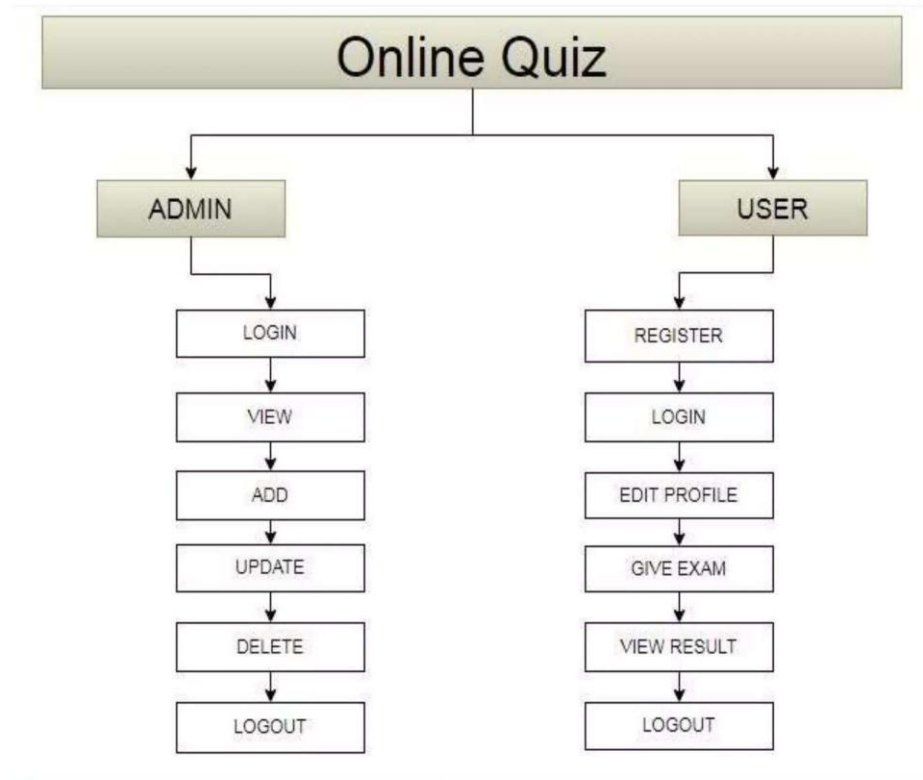


Fig3: Hierarchy Diagram

### 3.4 Component Diagram

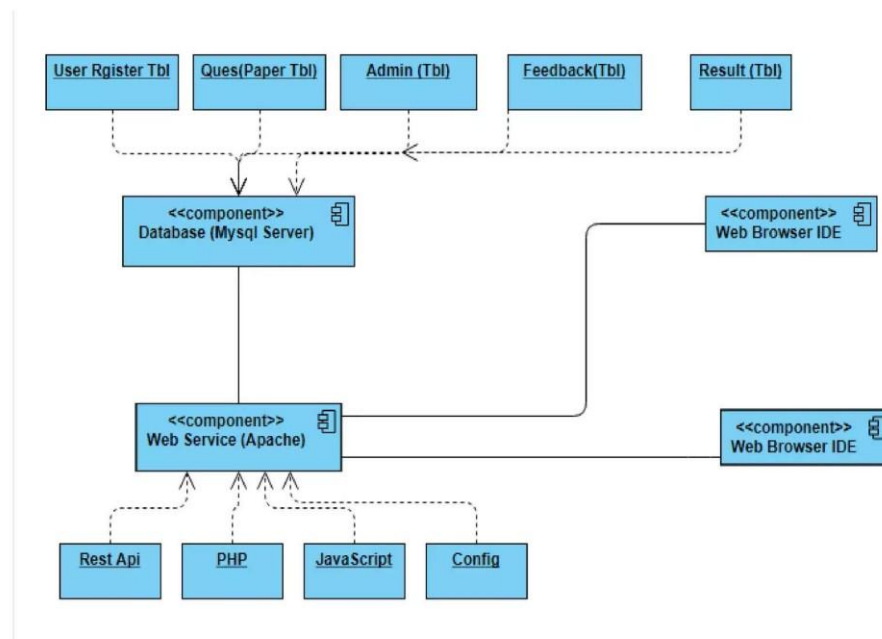


Fig4: Component Diagram



### 3.5 Deployment Diagram

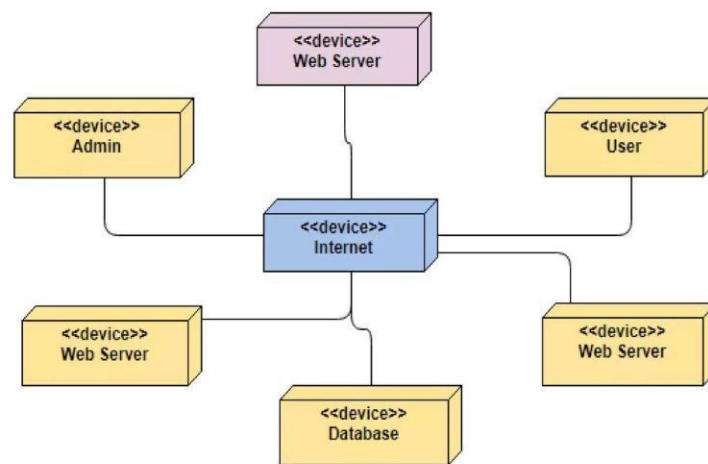


Fig5: Deployment Diagram

### 3.6 Interface Diagram (in case of WAP and Embedded Systems)

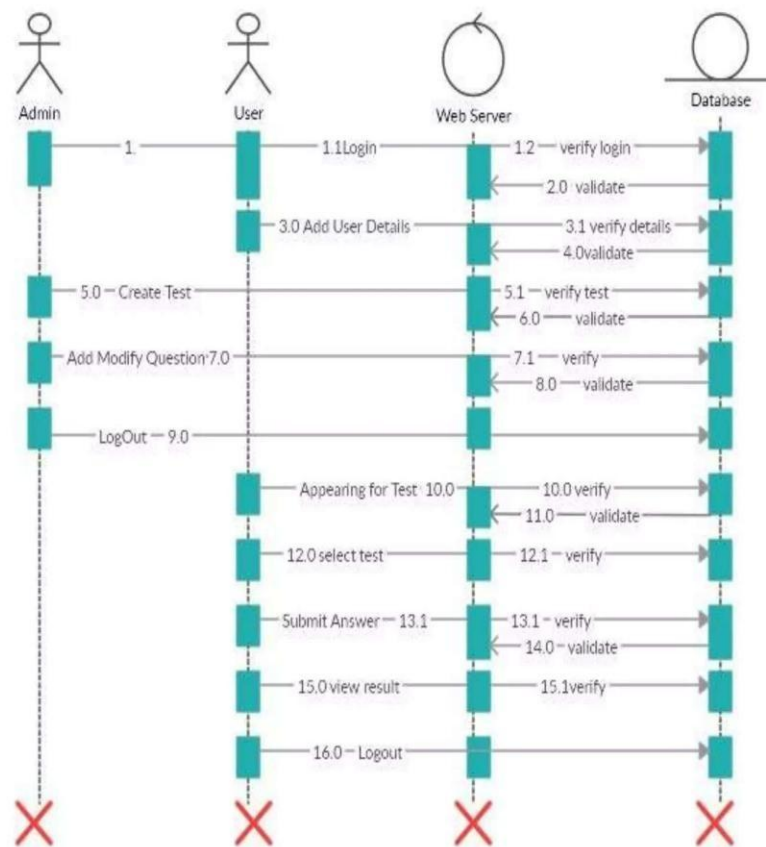


Fig6: Interface Diagram

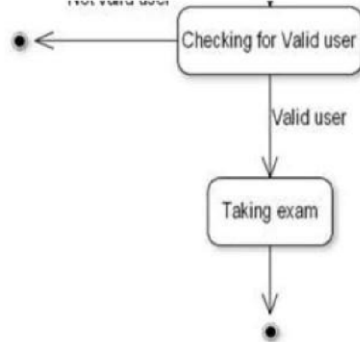


Fig.7 State Chart Diagram

### 3.8 Table specifications

#### 3.7.1 Registration

Table Name	Registration			
Purpose	It stores the information about the users.			
Primary Key	Quid			
Field Name	Data Type	Data Size	Constraint	Description
Id	Int		Auto-Increment	ID of user
FirstName	Varchar	50	Not Null	First name of user
MiddleName	Varchar	50	Allow Null	Middle name of user
LastName	Varchar	50	Allow Null	Last name of user
UserName	Varchar	50	Not Null	User name of user
Email	Varchar	50	Not Null	Email of user
College_Name	varchar	50	Not Null	College name of user
Password	Varchar	50	Not Null	Password of user
C_Password	Varchar	50	Not Null	Confirm Password
DOB	date		Not Null	Date of birth
Contact_No	Varchar	12	Not Null	Contact Number
P_Address	Varchar	Max	Not Null	Permanent Address

### 3.7.2 Quiz

Table Name	Quiz			
Purpose	It stores the information about the users.			
Primary Key	Qid			
Field Name	Data Type	Data Size	Constraint	Description
Q_Id	Int		Auto-Increment	ID of user
Title	Varchar	50	Not Null	Subject information
True_Ans	int	50	Not Null	Right Answer
False_Ans	int	50	Not Null	Wrong Answer
Total	int	50	Not Null	Total no of right Answer
Time	datetime	50	Not Null	Current date and time
Tag	varchar	50	Not Null	Title information
Date	timestamp	50	Not Null	Current date
Ans_id	int	50	Not Null	Right Answer

### 3.7.3 Answer

Table Name	Answer			
Purpose	It stores the information about the users.			
Foreign Key	Ans_id			
Field Name	Data Type	Data Size	Constraint	Description
A_Id	Int		Auto-Increment	Id of Answer
Answer	Varchar	50	Not Null	Option Type Answer
Ans_id	int	50	Not Null	Right Answer

### 3.8 Test Procedures and Implementation

#### 3.8.1 Test Procedure

The project need to be fully tested as it needs to be integrated to an internal existing system. Also the data that it processes and its accuracy as equally important. Since system works on the network it was thoroughly tested internally and can only then he implemented inclemently to the other modules.

#### 3.8.2 Login

Whenever user will open the site & he want to perform any operations, Contract. User must have click on login. User is login with his userid and password then he/she will go to next page that is Home page. For valid user name and password user must register with the system.

**Table11:** Login Test Plan

Test Case Description	Test Data	Expected Result	Actual Result	Pass/Fail Criteria
Enter Valid username and password	User Id: Kishan Password: Kishan@123	Profile page should be displayed	Home page Displayed	Pass
Enter invalid username and password	UserId: KishanMaurya Password:Kish1234	Error message should be displayed.	Error message is displayed.	Pass



Enter Blank username and password	User Id:KishanKumar  Password:Kishan@1234	Error message should be displayed.	Error message is displayed.	Pass
Enter valid username but wrong password	User Id: Rakesh  Password:Rakeshcharuef	Error message should be displayed	Error message is displayed	Pass

## 4 User Manual

This manual will be order to get overall idea about the system this is to be used. This manual will explain the need scope of a user manual as well as outline the suggested organisation and content of user manual.

### Purpose:

A user manual is prepared just before the implementation phase in the system development life cycle. The objective of the user manual is too clearly described and documents the operating of the system for the user department, in specific, non-ambiguous and non-technical terms.

The ultimate test for any system is whether it can be used efficiently and effectively. A system can't implement itself. It needs to people to start, use and maintain it, but they must learn how. Providing documentation that teaches how is the part of responsibility of every individual, as member of the system development team.

The need for user manual arises for the following reasons

- The user manual represents the entry point into the system from the end user angle.
- The manual identifies the task which must be carried out by the user, in using the system, the objectives of these takes and main deliverables which signify successful completion of each task.

- In many cases the manual is the sole means of learning how to the work or how to correct errors.
- A comprehensive user manual describes in details all system inputs processor, outputs and control and provides background reading to supplement training and testing.

**The steps using this portal are as follows:**

1. The very first step for this portal is user-login.
2. The user is checked authentication.
3. Once the user is authenticated user, main screen appear.
4. He/she is able to access the desired page and makes manipulation with data.
5. The user can add in the database.

#### **4.1 User manual for Developers:**

This manual will be order to get overall idea about the system for the developers. This manual will explain how the system has been developed? , which are the technologies are used for development? Which coding architecture is followed by the developers?

➤ **Coding Architecture:**

3-tier architecture is used for the development of cooped.

- Application Layer
- Business Layer
- Database Access Layer

➤ **Technology Used:**

For the Application Layer

-PHP: used to create .php pages and allow for the dynamic web content.

-HTML: used to create the static web content.

-CSS, JavaScript & AJAX: used for the client side validations, to make the user interface attractive.

For the Business Access Layer

-PHP: used to handle the .phppages as well as various namespaces and classes.

For the Database Access Layer

-MS-SQL 2008: used for the data storage and data manipulation.

### **5.Drawbacks and Limitations**

- a. User must be computer literate
- b. If internet is not provided then can't book the dustbin
- c. Limited to Pune and near by city.

### **6. Proposed Enhancements**

- 1.This application avoids the manual work and the problems concern with it. It is an easy way to obtain the information regarding the different scheduled examinations information that are Currently issued.
2. We will make it more user friendly.
- 3.The enhancement that we can add the searching option. We can directly search to the particular student details from this site.

### **7. Conclusion**

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the efficiency
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.

Code submission (Git hub Link) : - <https://github.com/rohitsharma0265/upskillcampus.git>

Report submission (Git hub link) : - <git@github.com:rohitsharma0265/upskillcampus.git>