

# **Project Report on Online Individual Assessment System**

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## INRODUCTION

### 1.1 Purpose

- This Web Application provides the facility to conduct online assessment globally.
- It saves time as it allows number of students to give the exam at the same time and displays the results as the test gets over, so no need to wait for the result. wait for the result. It is automatically generated by the server.
- Administrator has a privilege to create, modify and delete the test papers and its particular questions.
- User can register, login and give the test with their specific id, and can see the results as well.

### 1.2 Scope

- This system allows student to give their exam at any place. It saves paper, is cost efficient, reduces Human Resource requirement and gives result very fast.

### 1.3 Overview

- This system provides an easy solution for the students to give exam online.

## 2.1General Description

This Web Application provides facility to conduct online examination globally. It saves time as it allows number of students to give the exam at the same time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server.

Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the results as well

## 2.1 User Manual

This system has HELP option which explains us how to operate the system.

## 3.1 Functional Requirements –

1. The System aims to provides an efficient interface to students to appear for an exam online.
2. The System asks the users to register before they can give any test. The registration form asks for the details of the user and lets them set a user name and password for their account.
3. The System provides login interface to the students through which only authorized users can pass by. The login form asks the user to enter a valid user name and password.
4. The home screen provides the user with options of various tests to choose from.
5. The System provides a page consisting of set of rules and regulations for the users before entering the exam.
6. The System provides timer facility once the user appears in the exam.
7. The System allows the students to navigate between the questions while attempting the exam.
8. The System should handle multiple exams at the same time.

## Project Profile

<b>Project Name</b>	Online Individual Assessment System
<b>Developed For</b>	Student Assessment
<b>Objective</b>	The Online Examination System is developed for handling the activities for various users such as students, staff, exam staff. Every individual should have a system with internet connection.
<b>Front End Tool</b>	HTML, CSS
<b>Back End Tool</b>	MYSQL, JAVASCRIPT

<b>Developed By:</b>	Subham Kumar Gupta (12000216007) Sneha Rastogi (12000216012) Shubhang Sharma (12000216015) Ravi Kumar (12000216020)
<b>Time Duration:</b>	95 Days

## Hardware and Software Requirement

### ❖ Server-Side Requirement:

#### Hardware:

<b>Processor</b>	2.0 GHz
<b>RAM</b>	2 GB
<b>Hard Disk</b>	20 GB FREE SPACE

#### Software:

<b>Front end</b>	<b>MOZILLA FIRE FOX 45 OR LATER</b>
<b>Operating System</b>	<b>WINDOWS OR LINUX</b>
<b>Web Server</b>	<b>LINUX SERVER</b>

**❖ Client-Side Requirement:****Hardware:**

<b>Processor</b>	1.0 GHz
<b>RAM</b>	2 GB
<b>Hard Disk</b>	2 GB FREE SPACE

**Software:**

<b>Operating System</b>	Windows 10
<b>Browser</b>	Firefox 45 or later or Chrome 60 or later

## 3.2 Non-Functional Requirement

### • 3.2.1 Utility

- i) The system must be easy to use by both admin and student such that they do not need to read an extensive number of manuals.
- ii) The system must be quickly accessible by both admin and students.
- iii) The system must be intuitive and simple in the way it displays all relevant data and relationships.

### • 3.2.2 Reliability

- i) The system must give accurate inventory status to the user continuously. Any inaccuracies are taken care by the regular confirming of the actual levels with the levels displayed in the system.
- ii) The system must provide a password enabled login to the user to avoid any foreign entity changing the data in the system.
- iii) The system should provide the user updates on completion of requested processes and if the requested processes fail, it should provide the users the reasons for the failure.
- iv) The system should not update the data in any database for any failed processes.
- v) The system must not lag, because the workers using it don't have down time to wait for it to complete an action.
- vi) All the functions of the system must be available to the user every time the system is turned on.
- vii) The calculations performed by the system must comply according to the norms set by the user and should not vary unless explicitly changed by the user.

### • 3.2.3 Supportability

- i) The software is designed such that it works even on systems having the minimum configuration.
- ii) The system is adaptable even if additional plugins or modules are added at a later point.
- iii) The data can be exported to the admin so as to make the system more portable.

### • 3.2.4 Implementation

- i) The system user interface is built using HTML and CSS.
- ii) The programming is done in PHP.
- iii) The database is implemented in phpMyAdmin and the database engine is MySQL.
- iv) The connection between database and the system is achieved using PDO (PHP Data Objects).

### • 3.2.5 Interfacing

- i) The system must offer an easy and simple way of viewing the current inventory.
- ii) The system must be able to display the relationship between user's answer and its corresponding exam question.

### • 3.2.6 Legal

- i) The software must be licensed on an individual basis for smaller companies, as well as

through a multi-license deal for larger corporations.

- ii) The client should agree to END-USER-LICENSE -AGREEMENT before using our software.

- **3.2.7 Maintenance**

- i) The application is password protected and also any update of new product entries and order processing is done by only privileged users.

- **3.2.8 Standards**

- i) The coding standards and naming conventions will be as per the American standards.

- **3.2.9 Design Constraint**

- i) The design constraints are that the browser at each place may not follow similar screen resolutions. This can lead to the website not having the impact it is planned to have.

- **3.3.0 Standard Development Tools**

- i) The System shall be built using a standard web page development tool that confirms to either IBM's CUA standards or Microsoft's GUI standards.

- **3.3.1 Software Language Used**

- i) The language that shall be used for coding the Online Individual Assessment System are HTML, CSS, JAVASCRIPT, PHP, JSP, AJAX, jQuery, JSON, GIT. For working on the coding phase of the Online Individual Assessment System, PHP STORM is used.

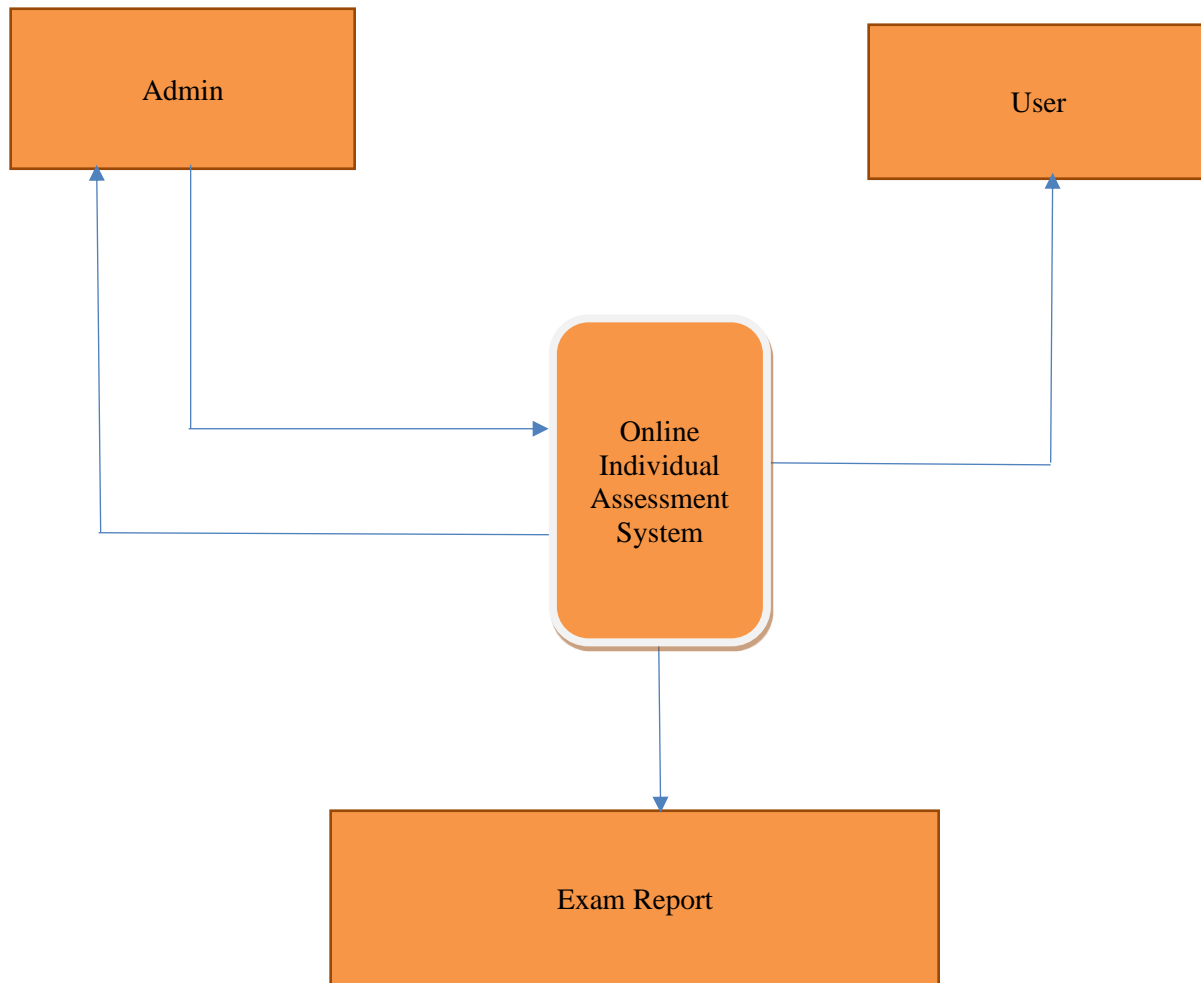
- **3.3.2 Development Tools**

- i) We will make use of MySQL server and Linux web servers for the implementation of the Online Individual Assessment System. Also, we will make use of the online references available for developing programs in HTML, PHP, and scripting language like JavaScript.

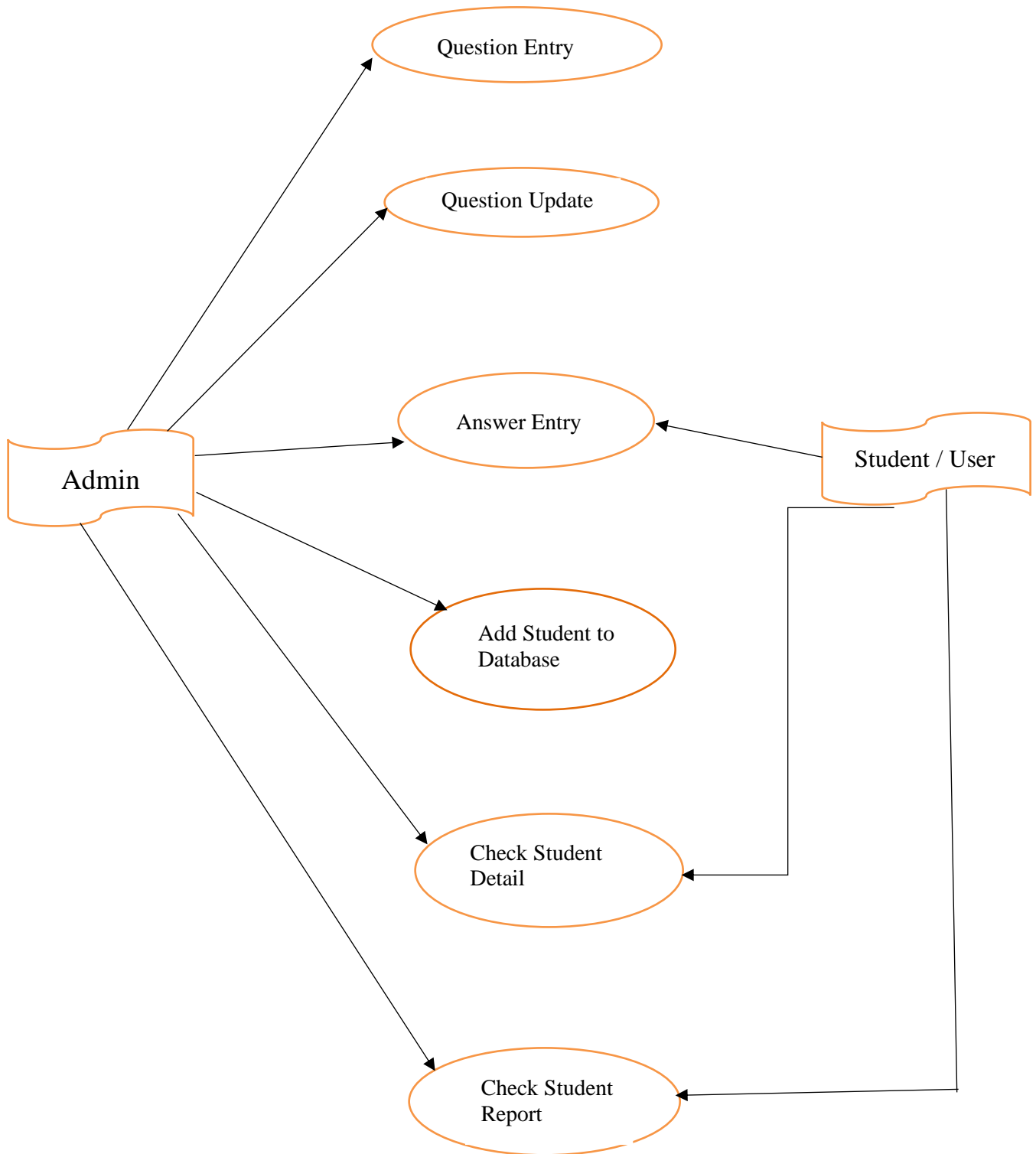
- **3.3.3 Probability**

- i) The application should be portable on any windows-based system.

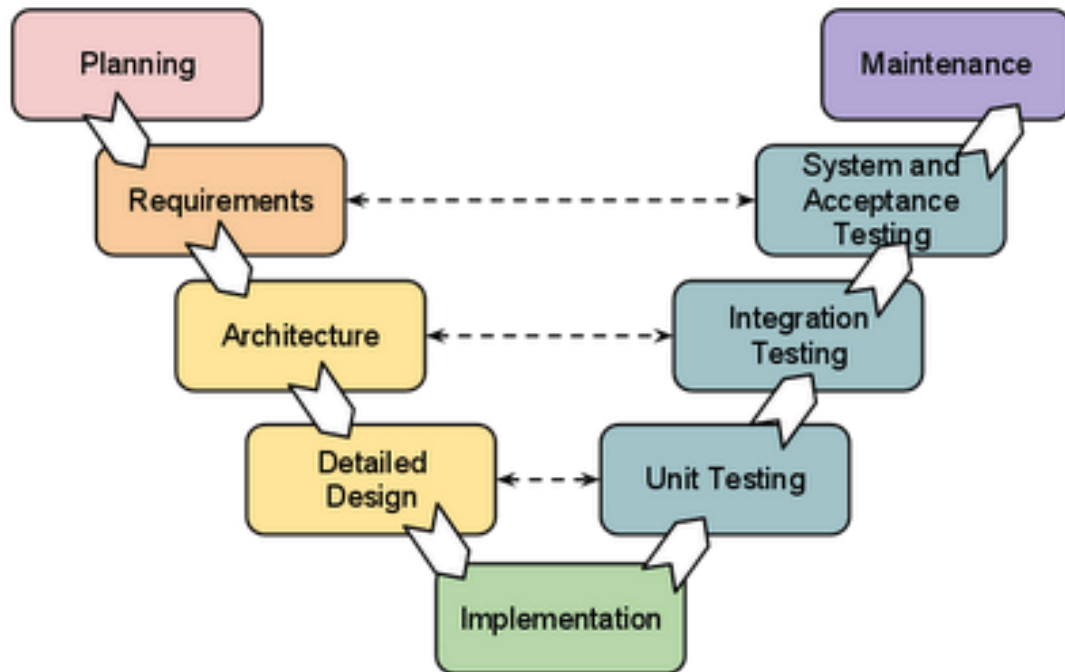


**4.0 Level 0 data flow diagram**

## 4.1 Use Case Model



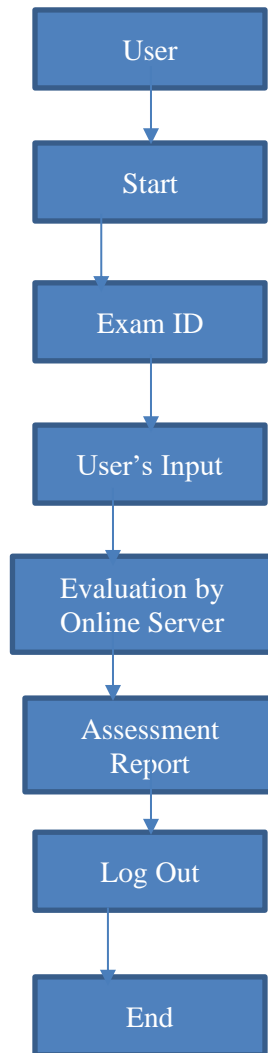
## 4.2 Model for Software Development



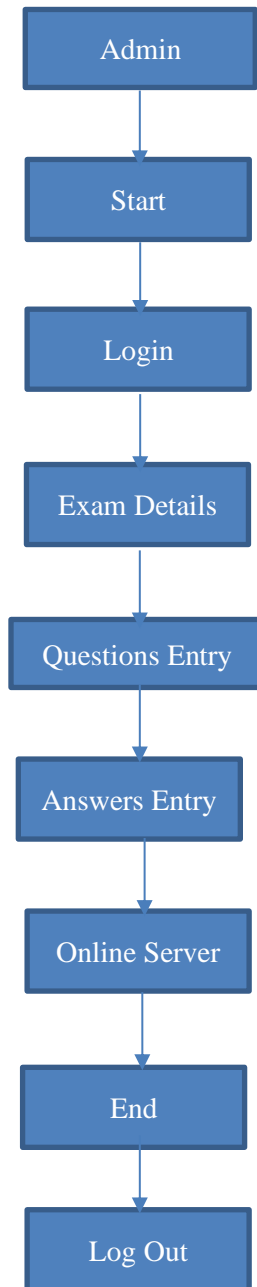
### Why?

- Simple and easy to use.
- Testing activities like planning, test designing happens well before coding. This saves a lot of time. Hence higher chance of success over the waterfall model.
- Proactive defect tracking – that is defects are found at early stage.
- Avoids the downward flow of the defects.
- Works well for small projects where requirements are easily understood.

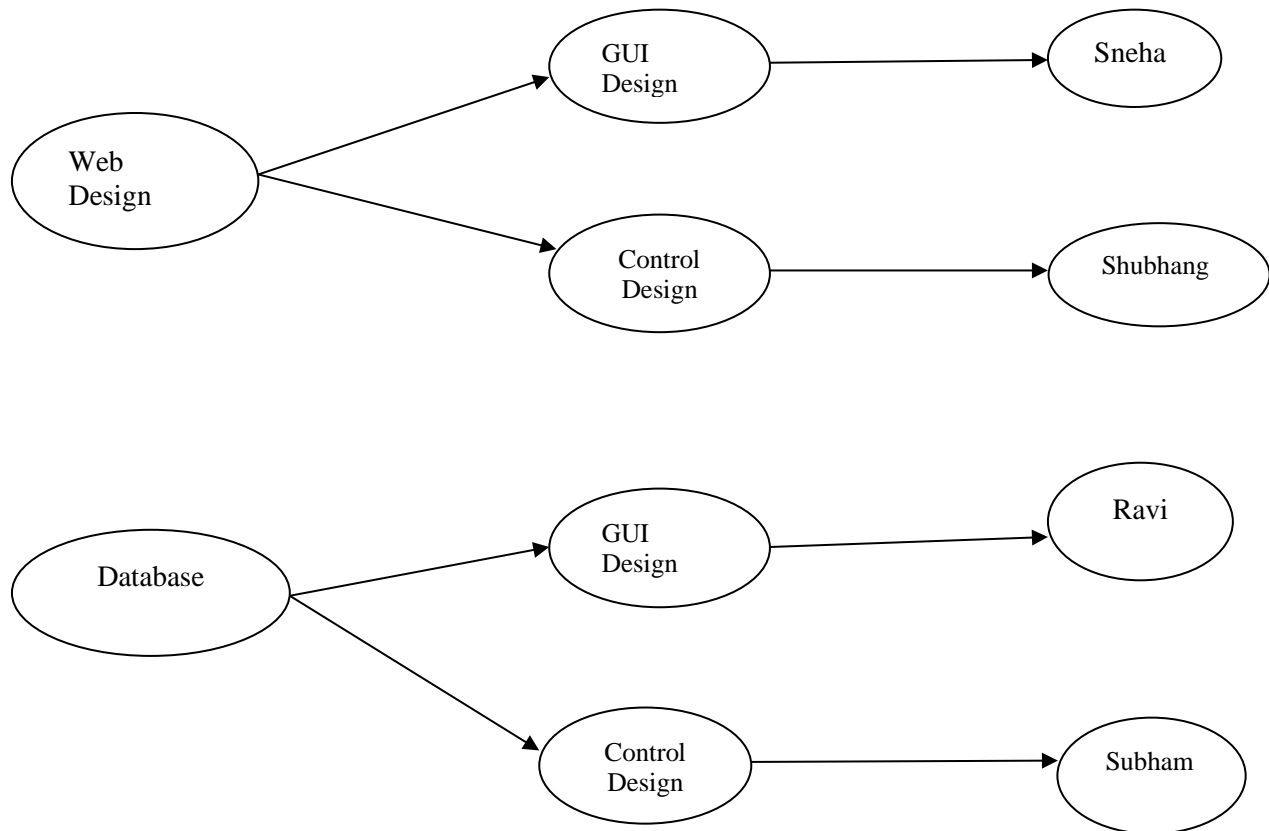
### **4.3 User Side Process Flow Diagram**



#### **4.4 Admin Side Process Flow Diagram**



## **5.0 ASSIGNMENT OF RESPONSIBILITIES**

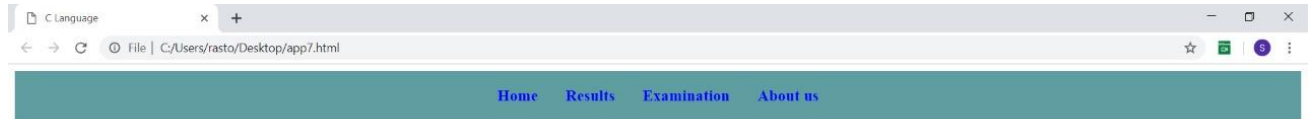


## **6.0 Cost Estimation**

	COST ESTIMATION				
	PRODUCT	PURPOSE	UNIT COST(₹)	NUMBER OF UNITS	TOTAL COST(₹)
SOFTWARE	WINDOWS 10	OPERATING SYSTEM	14799	4	59196
	OFFICE 365	OFFICE TOOLS	7799	1	7799
	Project Professional	PROJECT MANAGEMENT TOOL	77549	4	310196
	Linux Hosting	SERVER	16,164	1	16164
	Website Backup	BACKUP	3,924.00	1	3924
	Website Security Essential	SECURITY	13,975.20	1	13975.2
	PHP STORM	IDE	45,022.75	4	180091
HARDWARE	Lenovo ThinkPad E480	SYSTEM	60,290.00	4	241160
EMPLOYEE WAGE	WAGE FOR 4 MONTHS	SALARY	72000	4	288000
	TOTAL AMOUNT				1120505.2

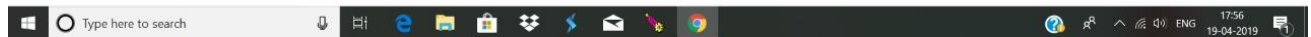
## 7.0 GUI

### Reports Page

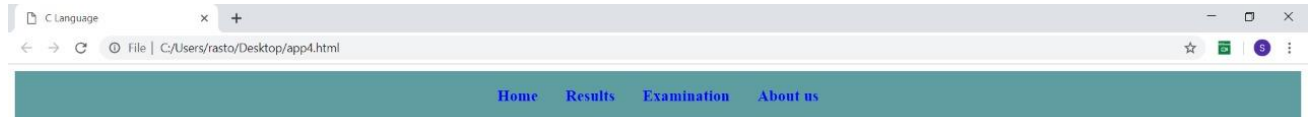


#### REPORTS

[Checking The Result](#)  
[List of Passed Students](#)  
[List of Students Pass with Merit](#)  
[List of Failed Students](#)



### Home Page -



Welcome Shubhang

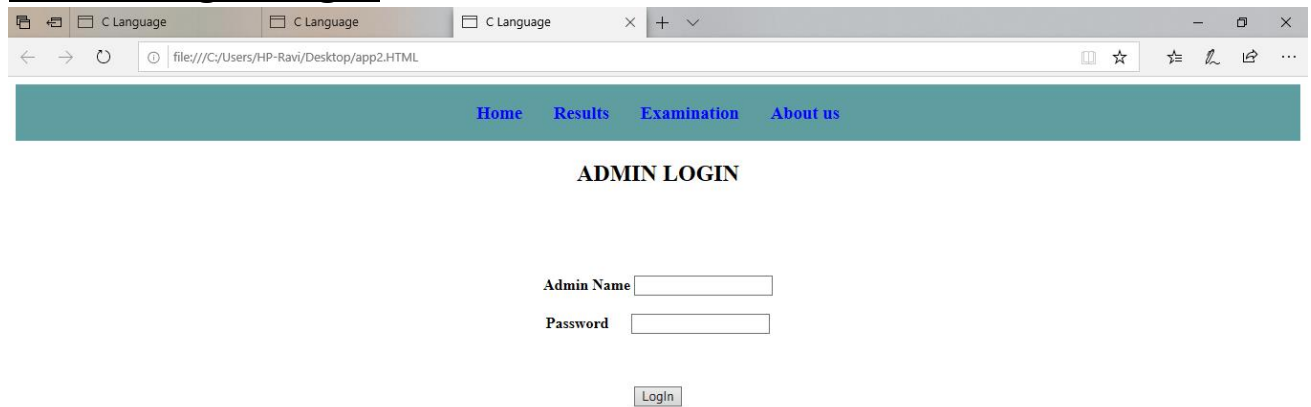
[Log out](#)

[C Language Test](#)  
[C++ Language Test](#)  
[Operating System Test](#)  
[DBMS Test](#)





## Admin Login Page-



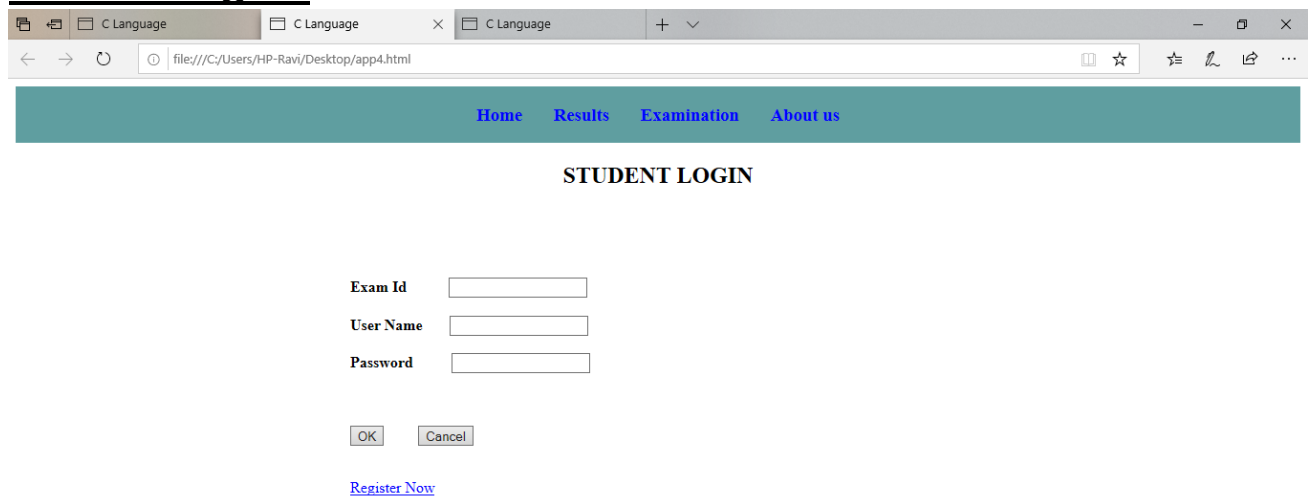
The screenshot shows a web browser window with the address bar displaying 'file:///C:/Users/HP-Ravi/Desktop/app2.HTML'. The browser has three tabs, all titled 'C Language'. Below the address bar is a teal navigation bar with links: Home, Results, Examination, and About us. The main content area is white and contains the heading 'ADMIN LOGIN' in bold. Below the heading are two input fields: 'Admin Name' and 'Password'. A 'Login' button is positioned below the 'Password' field.

Admin Name

Password

Login

## Student Login -



The screenshot shows a web browser window with the address bar displaying 'file:///C:/Users/HP-Ravi/Desktop/app4.html'. The browser has three tabs, all titled 'C Language'. Below the address bar is a teal navigation bar with links: Home, Results, Examination, and About us. The main content area is white and contains the heading 'STUDENT LOGIN' in bold. Below the heading are three input fields: 'Exam Id', 'User Name', and 'Password'. Below these fields are 'OK' and 'Cancel' buttons. A blue link labeled 'Register Now' is located below the buttons.

Exam Id

User Name

Password

OK Cancel

[Register Now](#)

## C Language Question Paper-

Home Results Examination About us

TIME 32:19

### C Language

- The operator & is used for
  - ☐ Bitwise AND
  - ☐ Bitwise OR
  - ☐ Logical AND
  - ☐ Logical OR
- The operator / can be applied to
  - ☐ integer values
  - ☐ float values
  - ☐ double values
  - ☐ All of these
- The equality operator is represented by
  - ☐ =
  - ☐ EQ
  - ☐ =
  - ☐ ==
- Operators have hierarchy. It is used to know which operator
  - ☐ is most important
  - ☐ is used first
  - ☐ is faster
  - ☐ operates on large number
- The bitwise AND operator is used for
  - ☐ Masking
  - ☐ Comparison
  - ☐ Division
  - ☐ Shifting bits

## Registration Form-

Home Results Examination About us

### Registration Form

First Name

Last Name

Date Of Birth  Day:  Month:  Year:

Email ID

Mobile Number

Gender ☐ Male ☐ Female

Address

City

State

PIN Code

Country

User Name

Password

## **8.0 SOFTWARE DEVELOPMENT LIFE CYCLE**