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Taking People To The Next Level

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Automation of Campus Recruitment Process in Engineering Colleges

Project By:

GITESH JAIN, Institute of Engineering and Management,
UNIVERSITY REGISTRATION NUMBER: 151040110256 of 2015-
2016

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Acknowledgement

I take this opportunity to express my profound gratitude and deep regards to my faculty NARENDRA KUMAR TIWARY for his exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by him/her time to time shall carry me a long way in the journey of life on which I am about to embark.

GITESH JAIN

Project Objective

Automate the entire process of campus Recruitment in engineering colleges. It extends from inviting corporates for campus placement to connecting Students, Hiring Managers, Placement Coordinators and Corporate PR Teams, all onto a single platform.

The primary project goals consist of:

- Build and brand the Campus Portal to promote a healthy, streamlined environment for visiting companies when they access it. The campus portal can be customized to keep users updated about the campus news.
- Automate and integrate the entire campus (On Campus / Off Campus) placement process. It enables recruiters to define various roles and rights of the stakeholders in the institute, after which they can operate the system.
- Easily manage student registration for the jobs being offered at your university. Students can create & edit profiles and upload Resumes for validation, search & apply for jobs, track their application status and more.
- Automate your student assessment process. Create or import a comprehensive online repository of questions for multiple subjects, generate unique questions papers as the system randomly chooses questions, define grades within the system based on the total marks scored.

Project Scope

The broad scope of Automated Campus Recruitment project includes:

- The system will be available on an online platform for 24x7 access to the students, the faculty and the administration
- The college campus recruitment system consists of a student login, recruiter login and college (admin) login.
- The project is beneficial for college students, various companies visiting the campus for recruitment and even the college placement officer.
- The software system allows the students to create their profiles and upload all their details onto the system.
- The admin can check each student details and can remove faulty accounts.
- The system also consists of a company login where various companies visiting the college can view a list of students in that college and also their respective resumes.
- The software system allows students to view a list of companies who have posted for vacancy.
- The recruiter can shortlist the candidates who have given the aptitude test on the basis of a cut-off decided by them.
- The recruiter can make final selection “n” candidates on the basis of final marks (Interview + Aptitude) as per their requirement.
- The system tracks all the information about companies, students, placements, etc.
- The admin has overall rights over the system and can moderate and delete any details not pertaining to college placement rules.

Modules of Automated Campus Recruitment Process:

- Admin Login

- Student Login
- Company Login
- Company can view student data
- Student can view company data
- Admin dashboard has overall functional rights
- Appropriate data processing and handling.

Advantages:

- There will be no need of putting up notice or emailing every student about the company coming in college. The students can keep updated themselves through this software.
- The company can view all students' detail and system can shortlist students according to their criteria instead of doing manually.
- There is admin login that can view and manage both students and company's account and also can put up notifications.
- Student can register online instead of going to placement department for registration.
- This system saves time and efforts.

Disadvantages:

- Student can't edit their application once sent. It would require admin to change the data.
- It requires large database.

REQUIREMENT SPECIFICATION

Domain Description:

The project is intended for the students appearing for placements, for companies who want to recruit freshers and for the college as well. This leads to ease of communication between the recruiter and the students. It greatly reduces all efforts that the HR Department has to perform prior to and after the actual act of selecting the students. This system helps in various ways such as saving time and cost of selecting Students and companies. That set of concepts is used to build a system for easily Communication between students and companies and company can get required eligible students.

Problem Definition:

Automation of Campus Recruitment Process in Engineering colleges. The objective the development of rich web based Campus Selection System for Universities and any Companies. Online Campus Selection System is developed for smooth working of Human Resource Departments. Universities and companies can get benefited through this system. This Software is fully integrated with Student and Company Relationship Management and developed in a manner that is easily manageable, time and cost saving that shows relieving one from manual works. Online Campus Selection provides automated technical screening, intellectual evaluation, etc. These feature helps in many ways like saving cost, time and paper work.

Functional Requirements:

❖ Student as User:

INPUT	PROCESS/FUNCTION	OUTPUT
User id & password	Validation (only allow authorised users and display error for others)	Student can view the list of companies ready for recruitment.
Selects a company	Database is checked. If already applied only application status is shown otherwise a new form for application is shown with application status set as “Not Applied”.	Students gets a form for new application or can see the application status if already applied.
Resume Upload and apply	Validation is done for resume file size and format and other details are verified.	On successful application the aptitude test is enabled with a deadline. Also application status is set as applied.
Aptitude Test answers	Validation of answers given to determine marks obtained.	Marks are updated in the company database and user is redirected to home page.

❖ College (admin) as User:

INPUT	PROCESS/FUNCTION	OUTPUT
User id and Password.	Validation(only allow authorised users and display error for others).	College (admin) can see the entire list of recruiters.
Company name and one of the following: 1. List of Applicants 2. Interviewed Candidates 3. Selected Candidates	Database is checked for details.	Required data is displayed in readable format.
Student Details.	Database is checked for details.	Required data is displayed in readable format.

❖ Recruiter as User:

INPUT	PROCESS/FUNCTION	OUTPUT
Company name, User id and password.	Validation(only allow authorised users and display error for others).	Recruiter can see the following options: 1. List of Applicants 2. Interview Candidates 3. Selected Candidates
List of applicants.	Database is checked for details.	Required data is displayed in readable format.
List of applicants: Enrolment Number.	Database is checked for details Of students who have	Details of the particular student are displayed.

	applied.	
List of applicants: Aptitude Cut-off.	All the student details who have applied and have marks above the cut-off and their application status is set as “Aptitude Cleared” and as “Not Selected” for others.	List of all Students and their details who have cleared aptitude are transferred to another table.
Interview Candidates	Database is checked for details	Required data is displayed in readable format.
Interview Candidates: Enrolment Number.	Database is checked for details Of students who have cleared aptitude.	Details of the particular student are displayed.
Interview Candidates: Interview marks and enrolment number.	Interview marks are updated for the particular student and also final marks is calculated and updated.	.List of all Students who have cleared aptitude are displayed along with their interview marks and final marks.
Interview Candidates: Number of Candidates to be selected.	All the student details who are in the top “n” according to the final marks are and their application status is set as “Selected” and as “Not Selected” for others.	List of all Students and their details who have cleared interview are transferred to another table
Selected Candidates: Enrolment Number.	Database is checked for details Of students who are selected.	Details of the particular student are displayed.

Hardware/Software Requirements:

❖ Server Side:

Hardware Requirements:

- Each operator/dispatcher will need a PC capable of running Microsoft Windows 2000 or higher with at least the Microsoft .NET framework 1.1 installed.
- The database shall be stored in a Windows, Linux or UNIX server using Apache and MySQL.

Software Requirements:

- System shall need Microsoft Windows 2000 or higher with at least the Microsoft .NET framework 1.1 installed.
- Visual Studio 2012 with C#.NET shall be used.
- System shall have either of Chrome, IE or any other browser installed.

❖ Client Side:

Hardware Requirements:

- Each operator/dispatcher will need a PC capable of running Microsoft Windows 2000 or higher with at least the Microsoft .NET framework 1.1 installed.
- The database shall be stored in a Windows, Linux or UNIX server using Apache and MySQL.

Software Requirements:

- System shall have either of Chrome, IE or any other browser installed.

DATABASE DESIGN

List of Tables:

The screenshot shows the MySQL Workbench interface with a tree view of databases on the left and a list of tables on the right.

Left Panel (Database Tree):

- (Recent tables) ...
- couch_potatoes
- exam
- gj
- information_schema
- mysql
- net_check
- performance_schema
- phpmyadmin
- pi_project
- placement_drive
 - New
 - amazon_applied
 - amazon_apti_passed
 - amazon_selected_studen
 - apti_questions
 - apti_question_posted
 - bosch_applied
 - bosch_apti_passed
 - bosch_selected_student
 - college_login
 - employer_login
 - google_applied
 - google_apti_passed
 - google_selected_student
 - student_details
 - student_login

Right Panel (Table List):

- Table ▾
 - amazon_applied
 - amazon_apti_passed
 - amazon_selected_student
 - apti_questions
 - apti_question_posted
 - bosch_applied
 - bosch_apti_passed
 - bosch_selected_student**
 - college_login
 - employer_login
 - google_applied
 - google_apti_passed
 - google_selected_student
 - student_details
 - student_login
- 15 tables

Buttons at the bottom:

- Check All
- With
- Print view
- Data Dictionary
- Create table

ER MODEL:

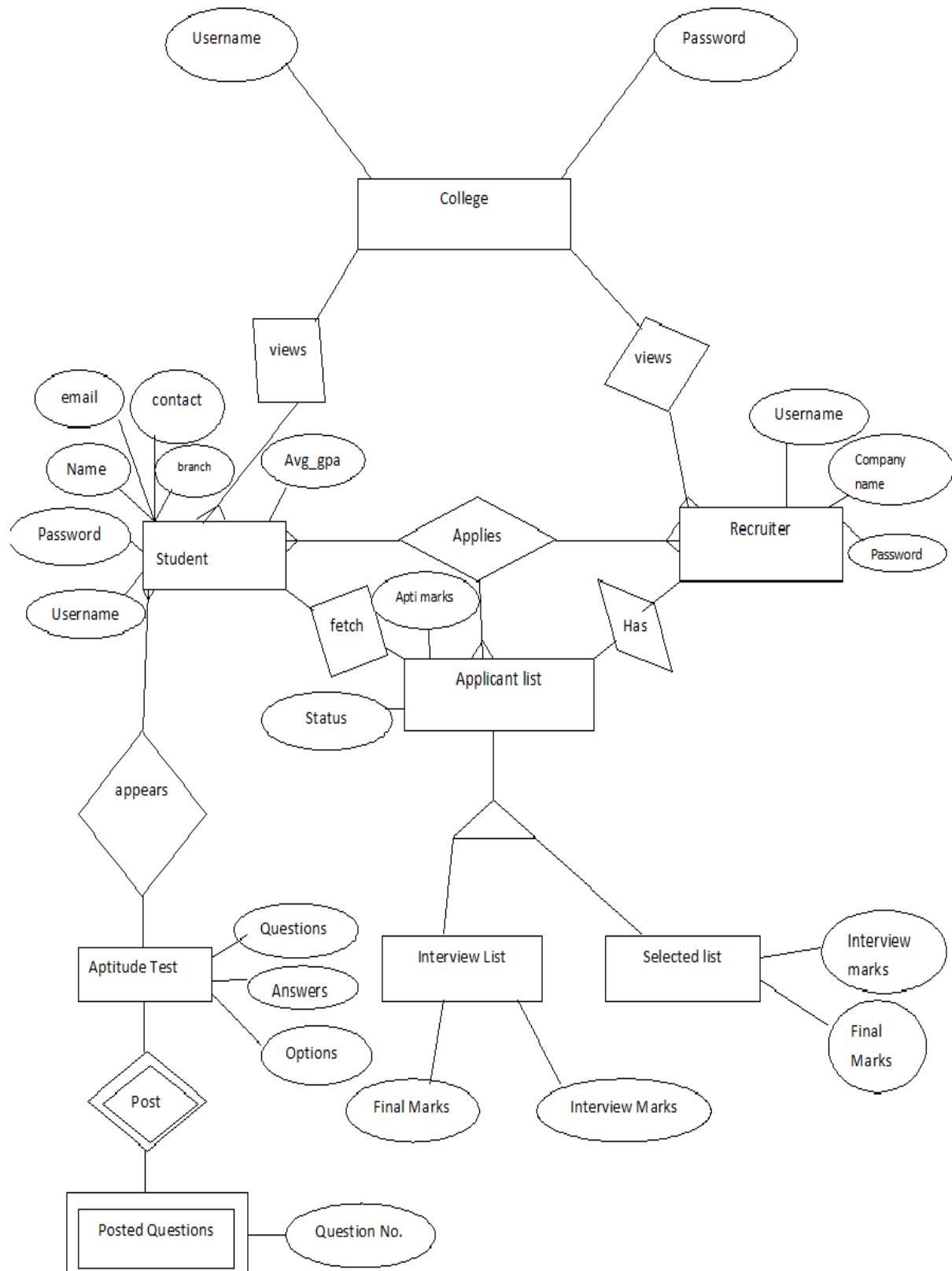


Table Structures:

Table Name: “company”_applied

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action		
1	<u>enroll_number</u>	int(14)			No	None				
2	name	varchar(20)	latin1_swedish_ci		No	None				
3	branch	varchar(3)	latin1_swedish_ci		No	None				
4	contact	int(11)			No	None				
5	email	varchar(20)	latin1_swedish_ci		No	None				
6	avg_gpa	double(10,2)			No	None				
7	resume	varchar(50)	latin1_swedish_ci		No	None				
8	apti_marks	int(3)			No	-1				
9	application_status	varchar(50)	latin1_swedish_ci		Yes	Applied				

Table Name: “company”_apti_passed

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action		
1	<u>enroll_number</u>	int(14)			No	None				
2	name	varchar(20)	latin1_swedish_ci		No	None				
3	branch	varchar(3)	latin1_swedish_ci		No	None				
4	contact	int(11)			No	None				
5	email	varchar(20)	latin1_swedish_ci		No	None				
6	avg_gpa	double(10,2)			No	None				
7	resume	varchar(50)	latin1_swedish_ci		No	None				
8	apti_marks	int(3)			Yes	NULL				
9	interview_marks	int(3)			Yes	NULL				
10	final_marks	int(3)			Yes	NULL				

Table Name: “company”_selected

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action		
1	<u>enroll_number</u>	int(14)			No	None				
2	name	varchar(20)	latin1_swedish_ci		No	None				
3	branch	varchar(3)	latin1_swedish_ci		No	None				
4	contact	int(11)			No	None				
5	email	varchar(20)	latin1_swedish_ci		No	None				
6	avg_gpa	double(10,2)			No	None				
7	resume	varchar(50)	latin1_swedish_ci		No	None				
8	apti_marks	int(3)			Yes	NULL				
9	interview_marks	int(3)			Yes	NULL				
10	final_marks	int(3)			Yes	NULL				

Table Name: apti_questions

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	<u>question_number</u>	int(3)			No	None	AUTO_INCREMENT	Change Drop Primary
2	<u>question</u>	varchar(10000)	latin1_swedish_ci		No	None		Change Drop Primary
3	<u>option_1</u>	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary
4	<u>option_2</u>	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary
5	<u>option_3</u>	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary
6	<u>option_4</u>	varchar(100)	latin1_swedish_ci		No	None		Change Drop Primary
7	<u>answer</u>	int(10)			No	None		Change Drop Primary

Table Name: apti_questions_posted

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	<u>question_number</u>	int(3)			No	None		Change Drop Primary

Table Name: college_login, student_login & employer_login

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	<u>user_id</u>	int(14)			No	None		Change Drop Primary
2	<u>pswd</u>	int(10)			No	None		Change Drop Primary

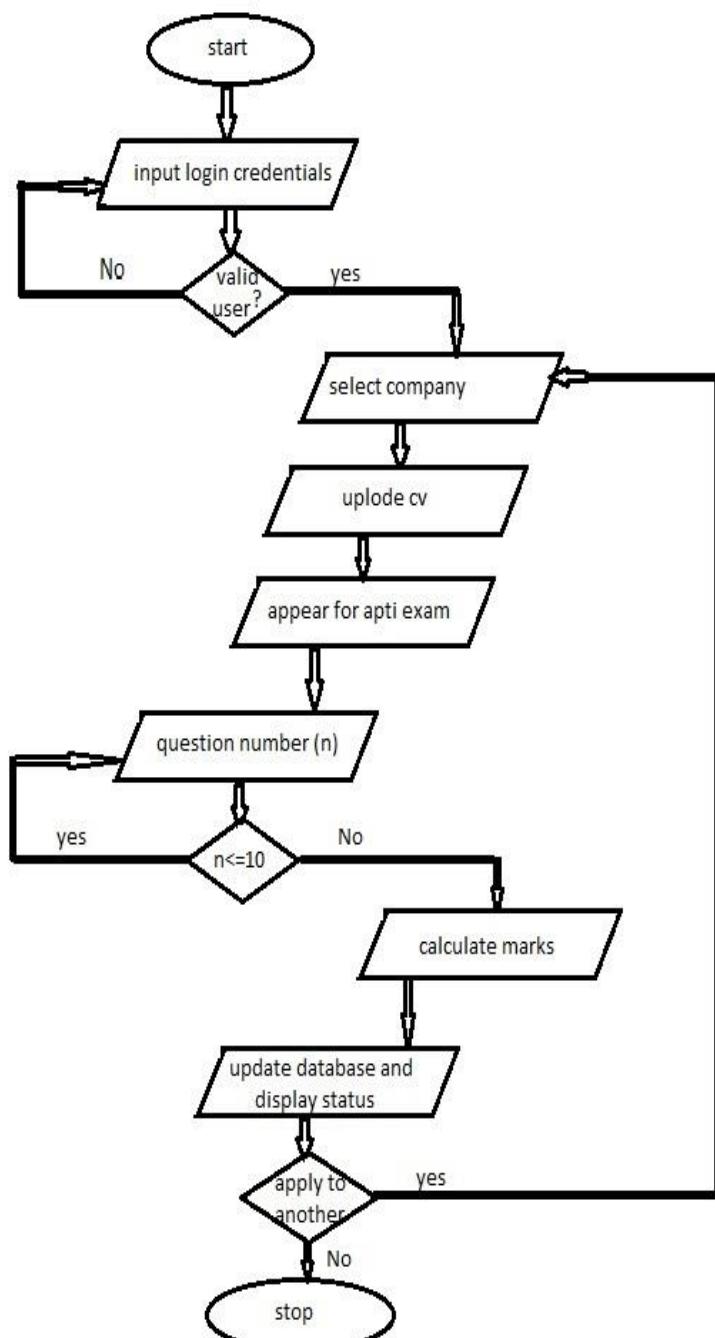
Table Name: student_details

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	<u>enroll_number</u>	int(14)			No	None		Change Drop Primary
2	<u>name</u>	varchar(20)	latin1_swedish_ci		No	None		Change Drop Primary
3	<u>branch</u>	varchar(3)	latin1_swedish_ci		No	None		Change Drop Primary
4	<u>contact</u>	int(11)			No	None		Change Drop Primary
5	<u>email</u>	varchar(20)	latin1_swedish_ci		No	None		Change Drop Primary
6	<u>avg_gpa</u>	double(10,2)			No	None		Change Drop Primary
7	<u>resume</u>	varchar(50)	latin1_swedish_ci		No	None		Change Drop Primary

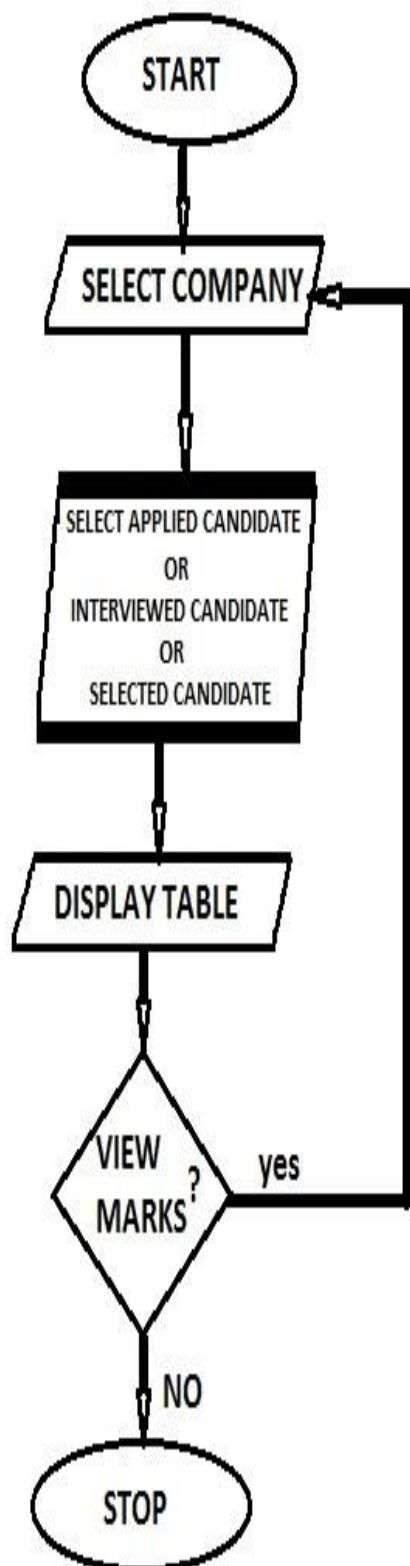
APPLICATION WORK FLOW

The flow of work can be divided into the sections as below:

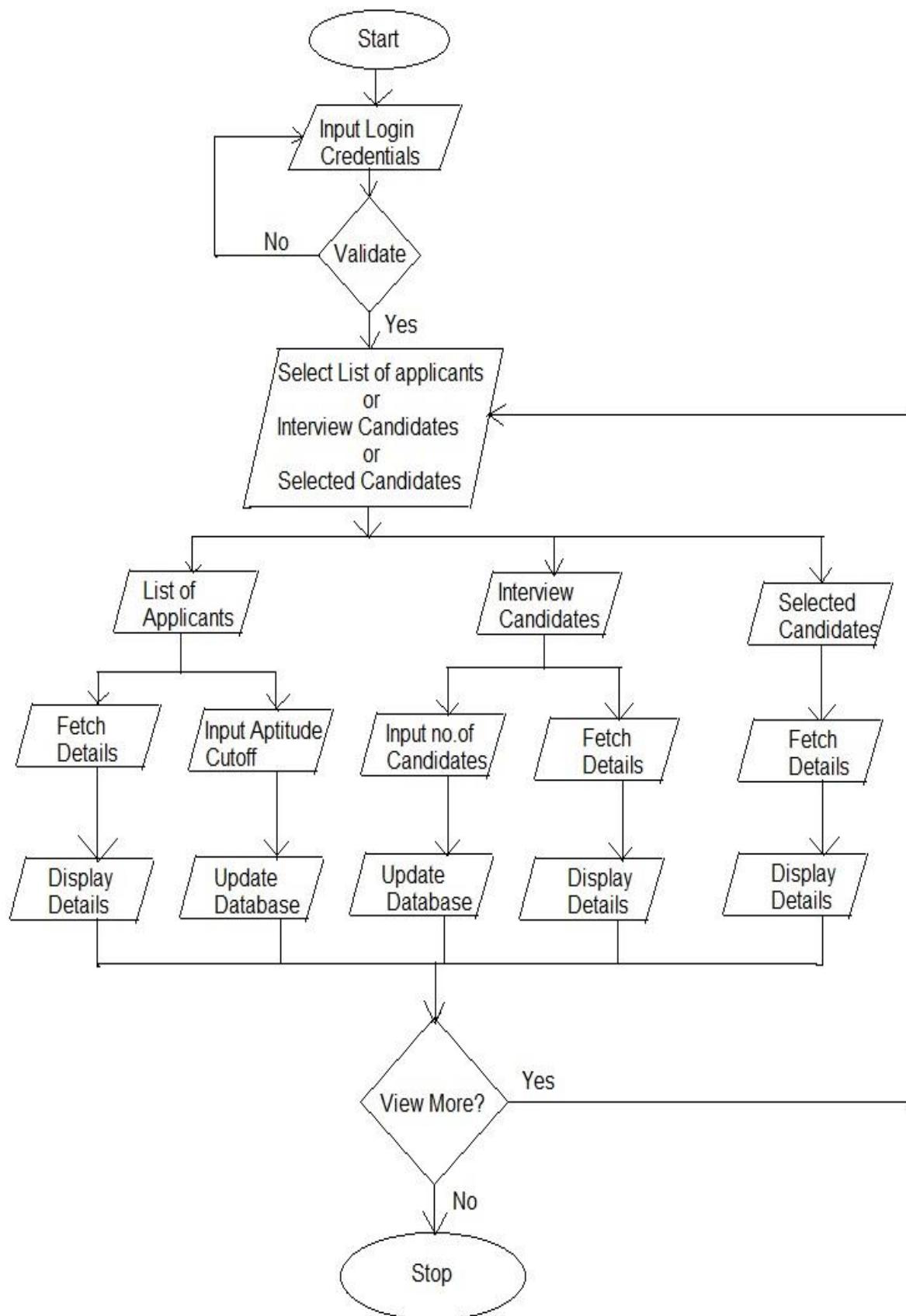
Student as User:



College (admin) as User:



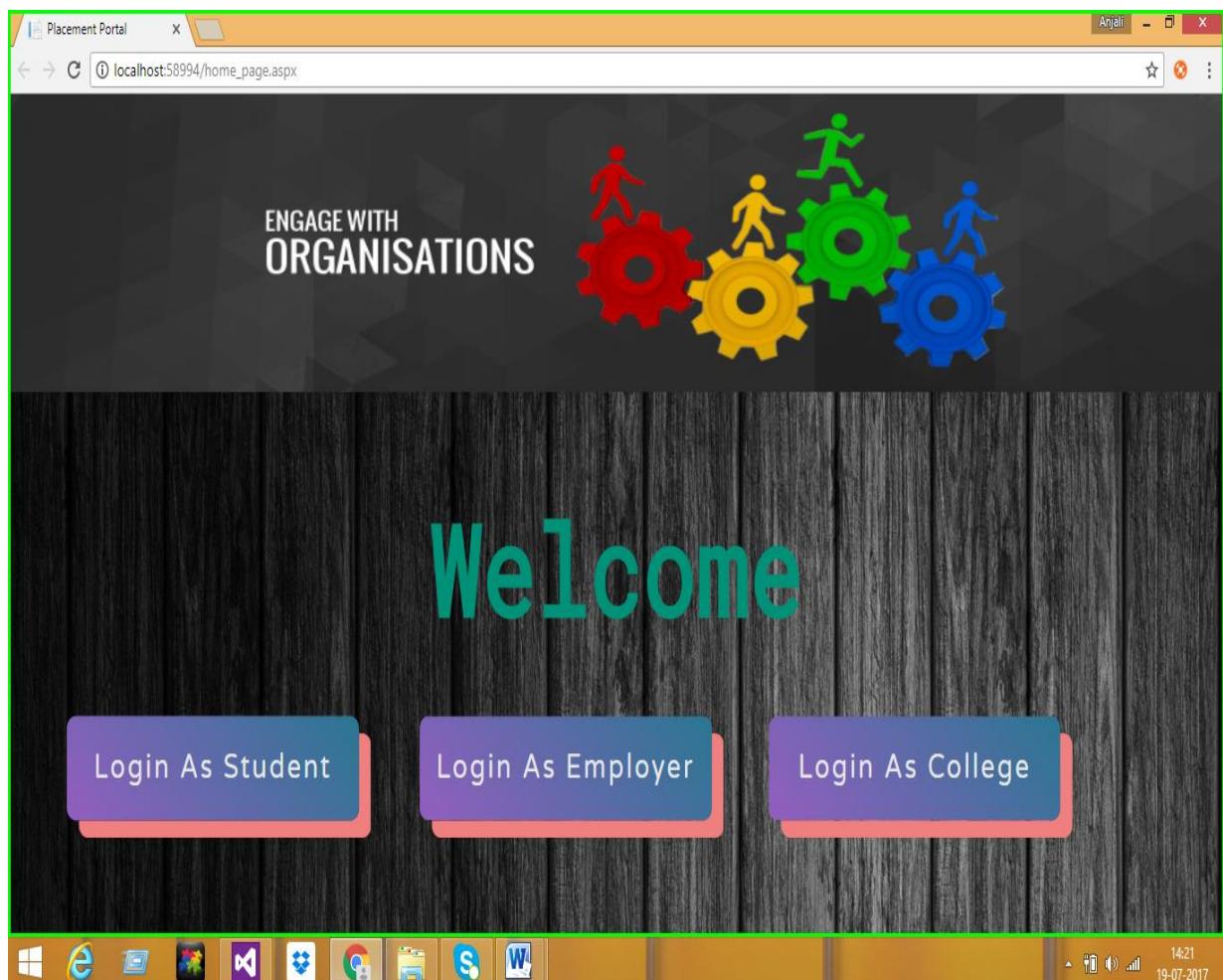
Recruiter as User



APPLICATION USER INTERFACE

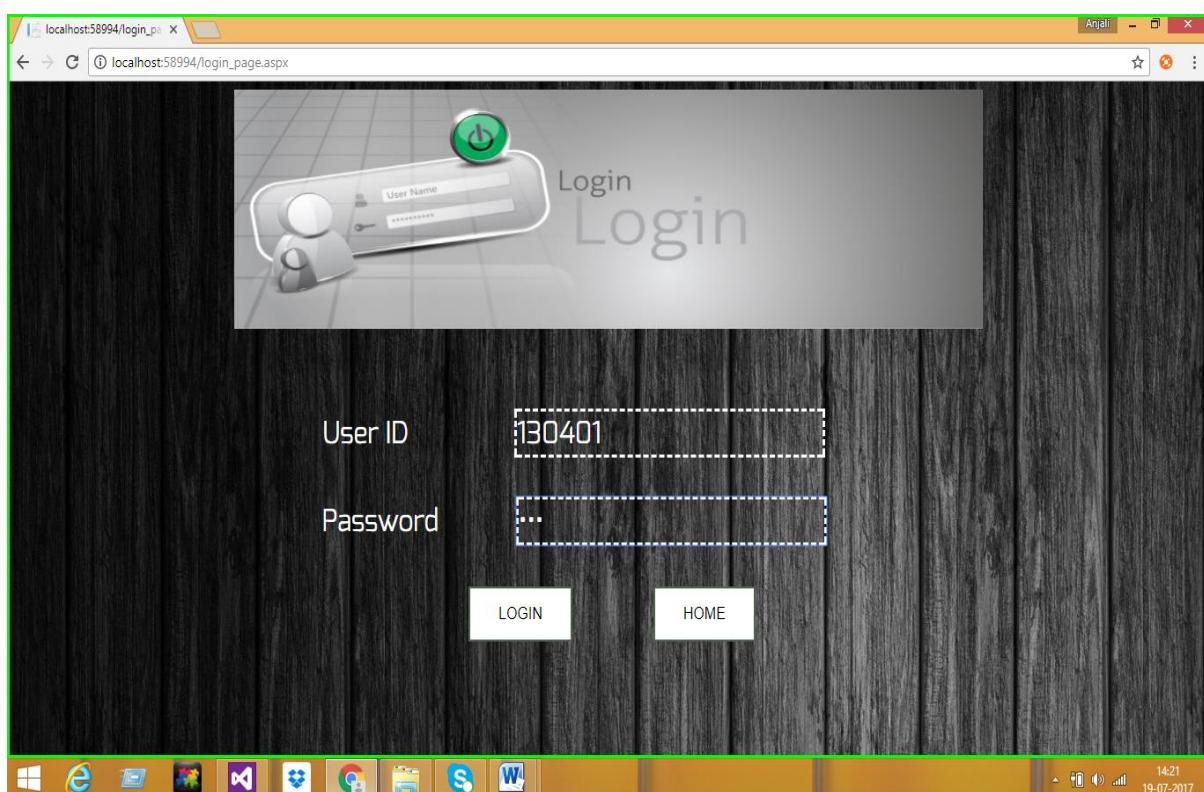
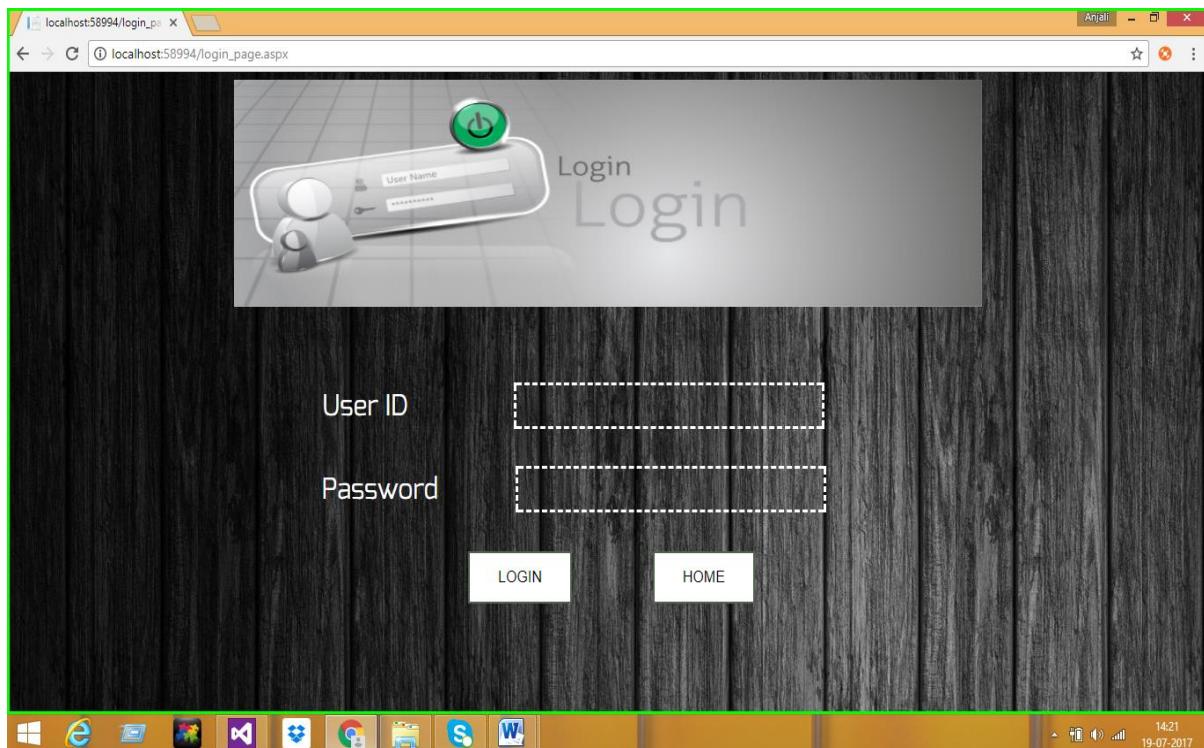
PAGE: home_page.aspx

LAYOUT:



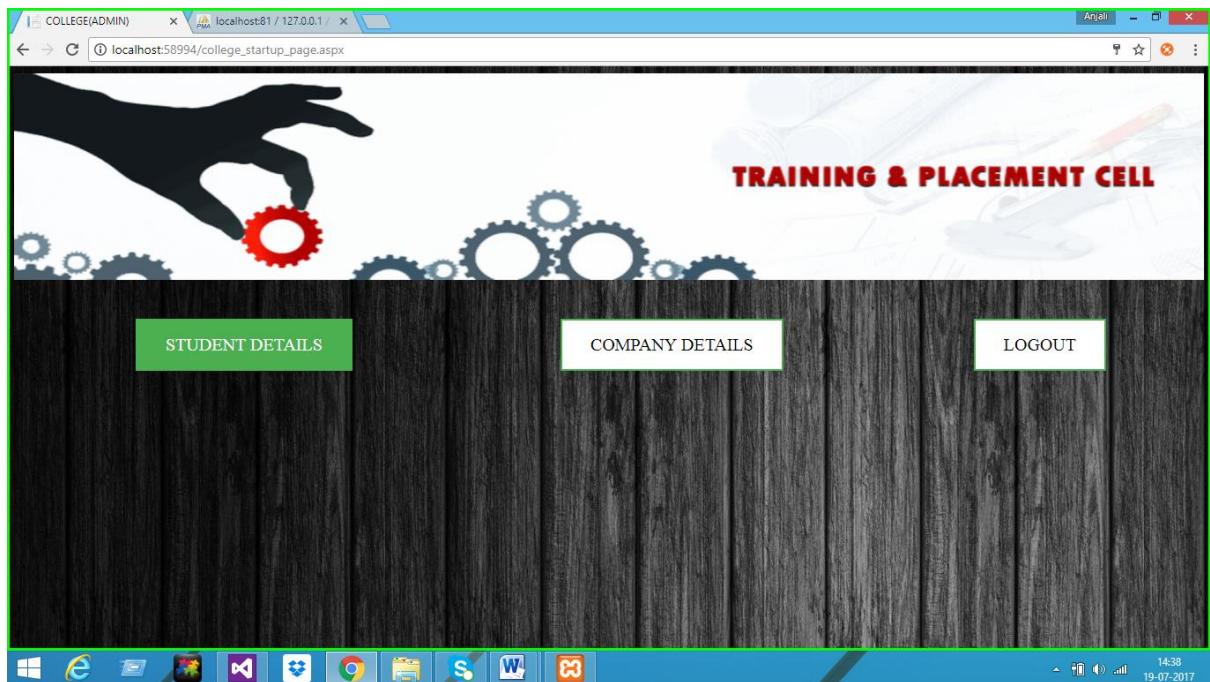
PAGE: login_page.aspx

LAYOUT:

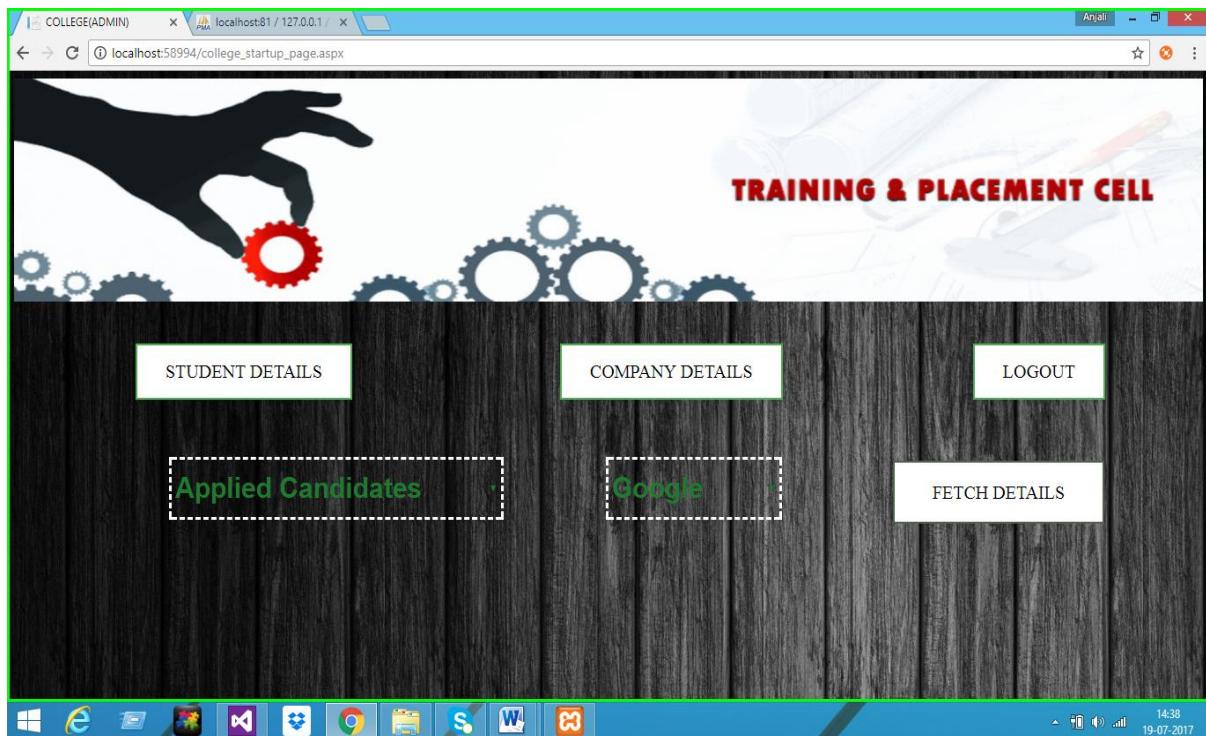


PAGE: college_startup_page.aspx

LAYOUT:

A screenshot of a web browser window titled "COLLEGE(ADMIN)" showing the URL "localhost:58994/college_startup_page.aspx". The page has a header with the text "TRAINING & PLACEMENT CELL" and a background image of a hand interacting with gears. Below the header is a table with the following data:

enroll_number	name	branch	contact	email	avg_gpa
130401	Rishav Roy	CSE	1234567890	r@r.com	9
130402	Summit Arora	IT	1234567890	s@a.com	8
130403	Abhay Sinha	IT	1234567890	a@s.com	7.77
130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93
130405	Manish Lohia	EE	1234567890	a@l.com	8.43



enroll_number	name	branch	contact	email	avg_gpa	apti_marks	application_status
130401	Rishav Roy	CSE	1234567890	r@r.com	9	0	Applied
130402	Summit Arora	IT	1234567890	s@a.com	8	-1	Applied
130403	Abhay Sinha	IT	1234567890	a@s.com	7.77	-1	Applied
130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93	-1	Applied
130405	Manish Lohia	EE	1234567890	a@l.com	8.43	-1	Applied

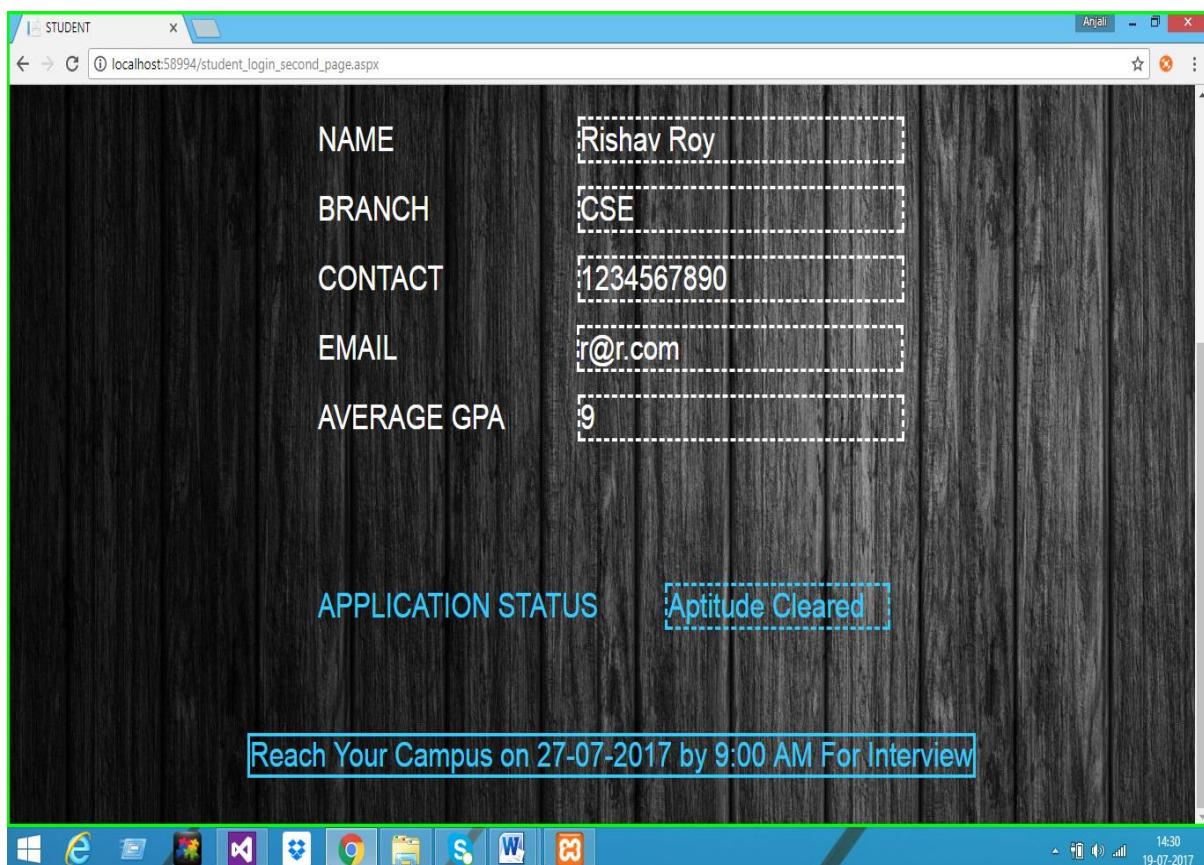
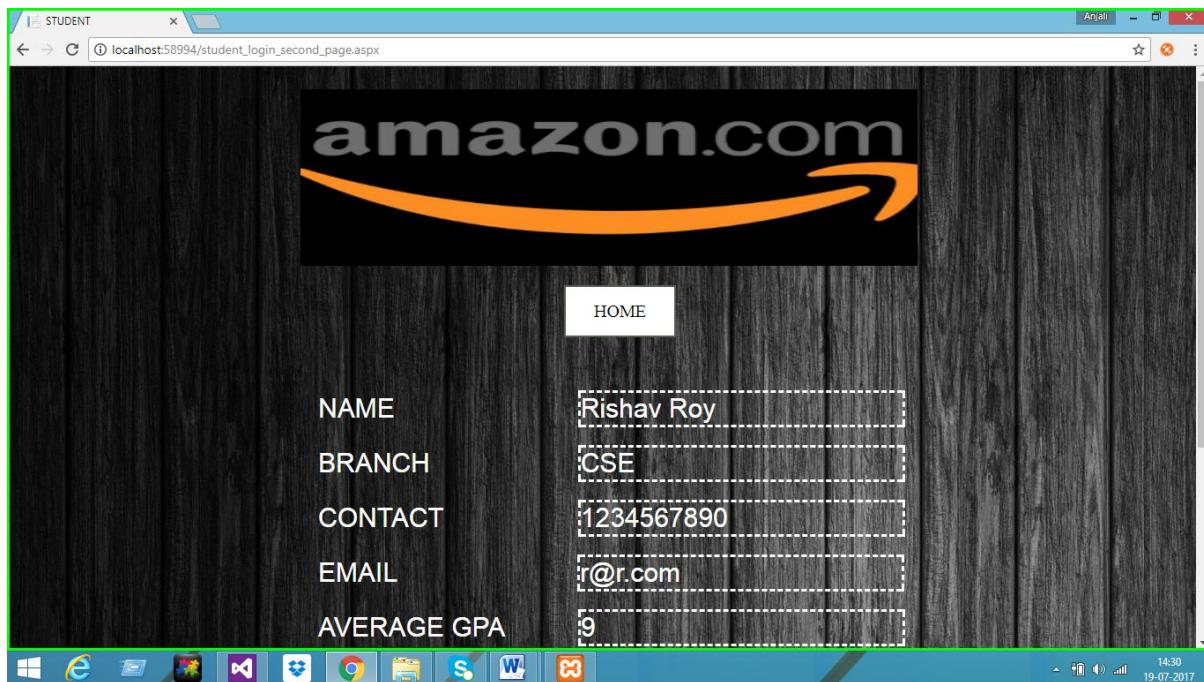
PAGE: student_login_first_page.aspx

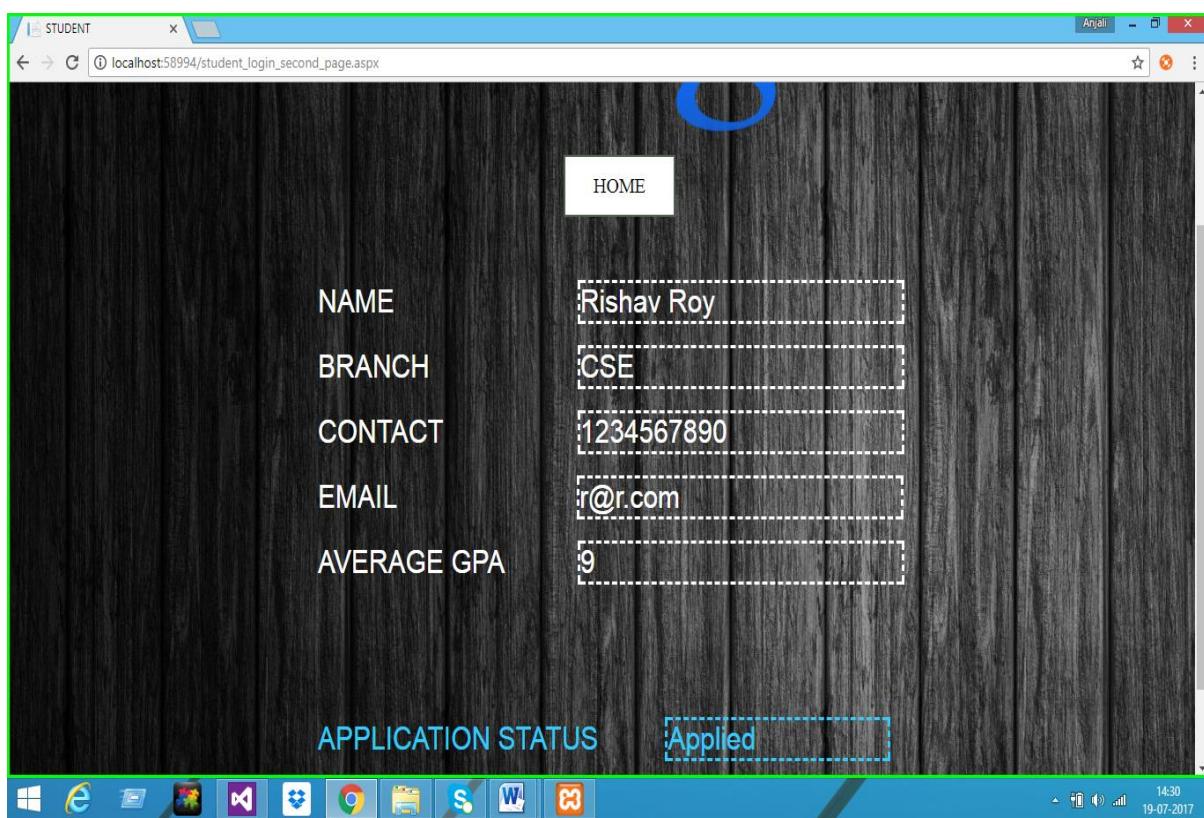
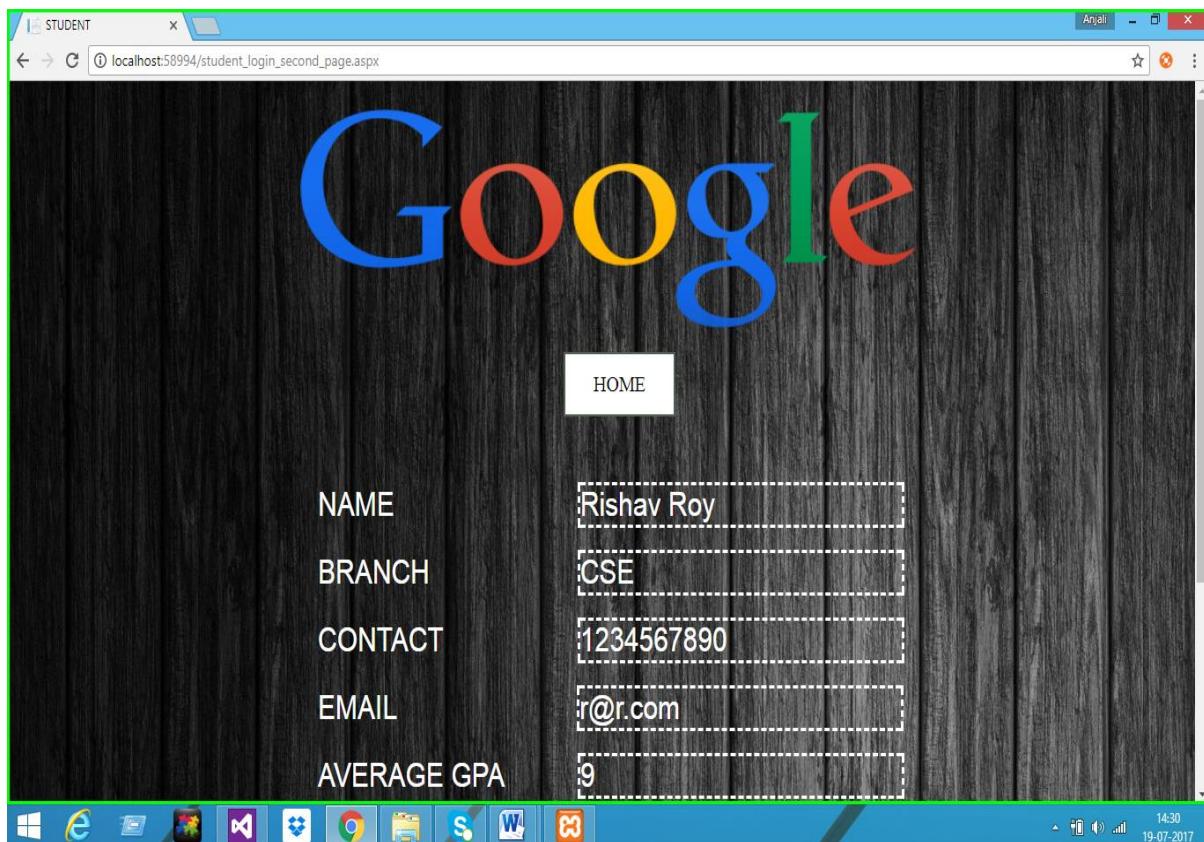
LAYOUT:

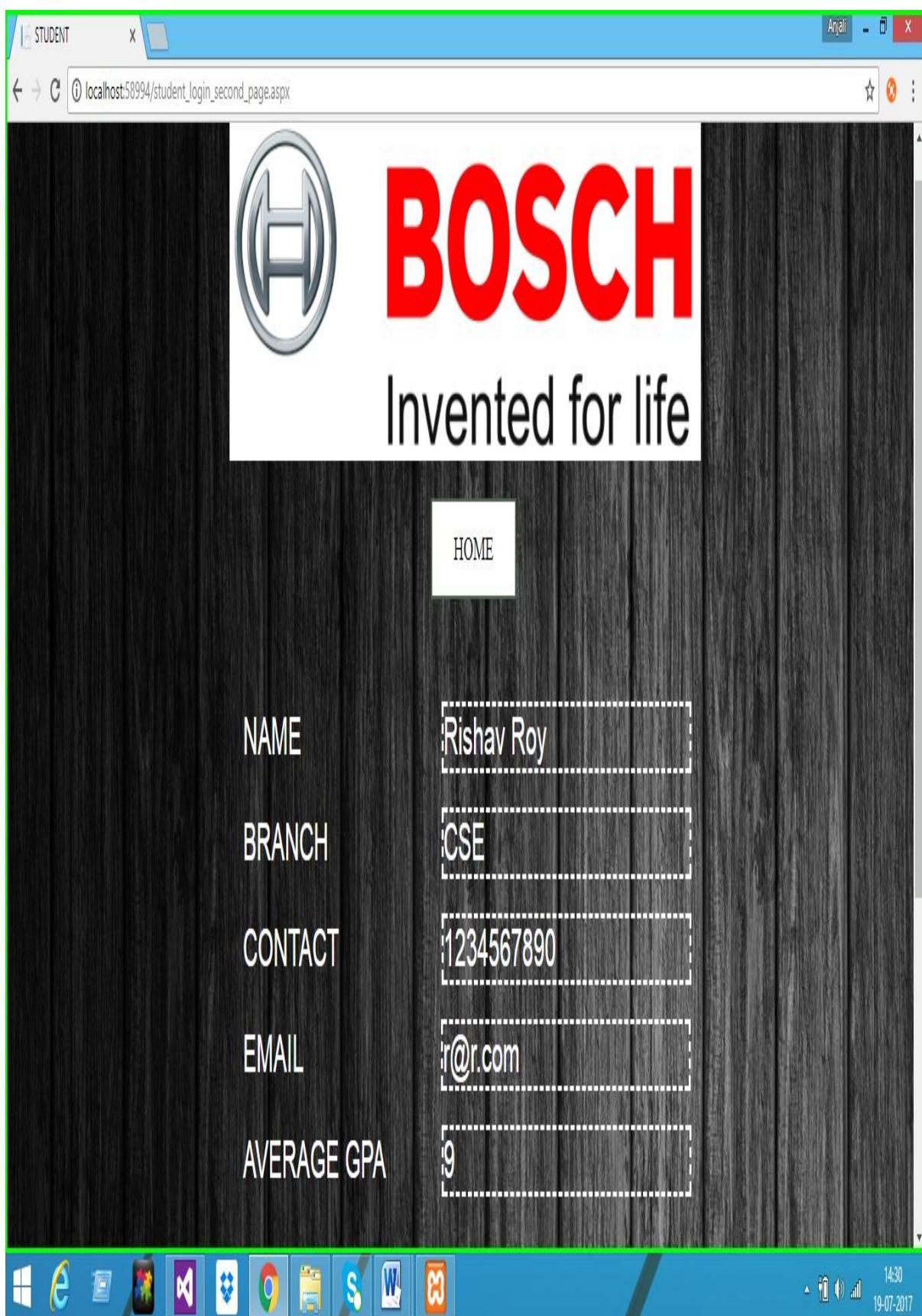


PAGE: student_login_second_page.aspx

LAYOUT:







STUDENT

localhost:58994/student_login_second_page.aspx

Anjali

NAME : Rishav Roy

BRANCH : CSE

CONTACT : 1234567890

EMAIL : r@r.com

AVERAGE GPA : 9

APPLICATION STATUS : Applied

Take Aptitude Test

Last Date For Test : 20-07-2016

STUDENT X Anjali

localhost:58994/student_login_second_page.aspx

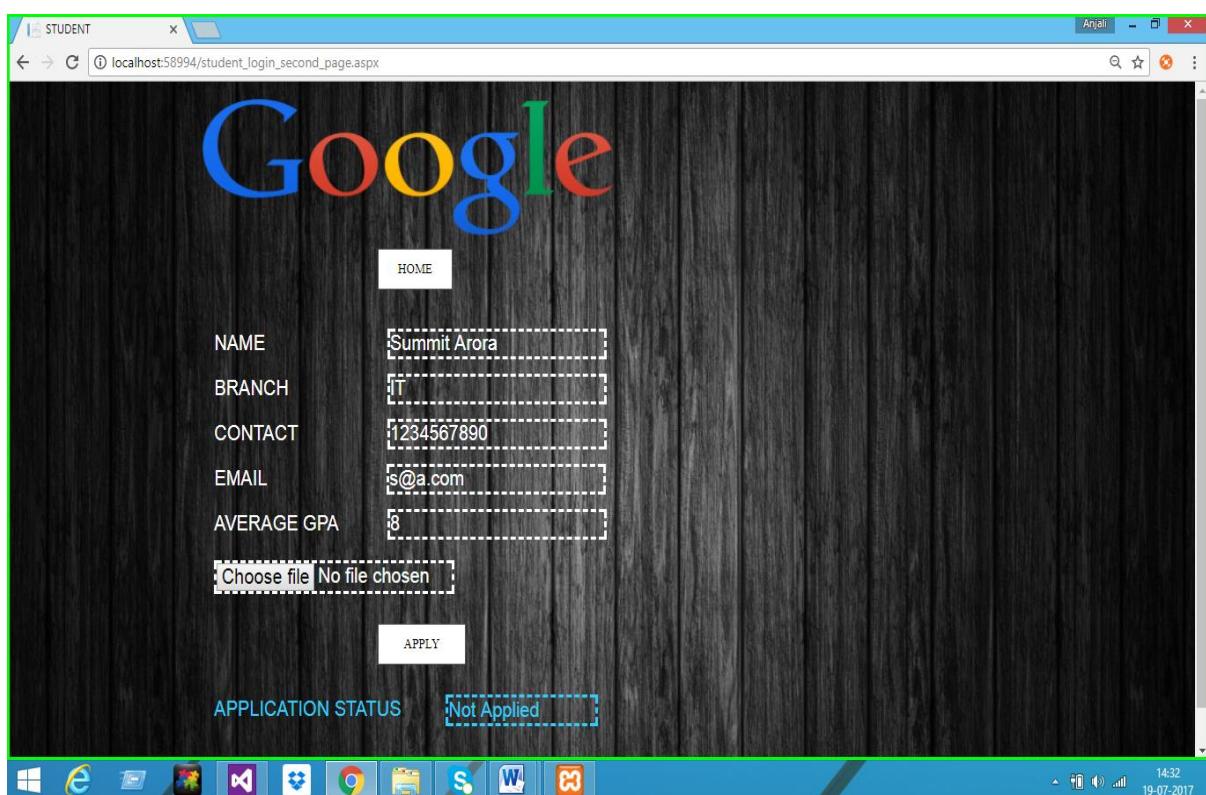
HOME

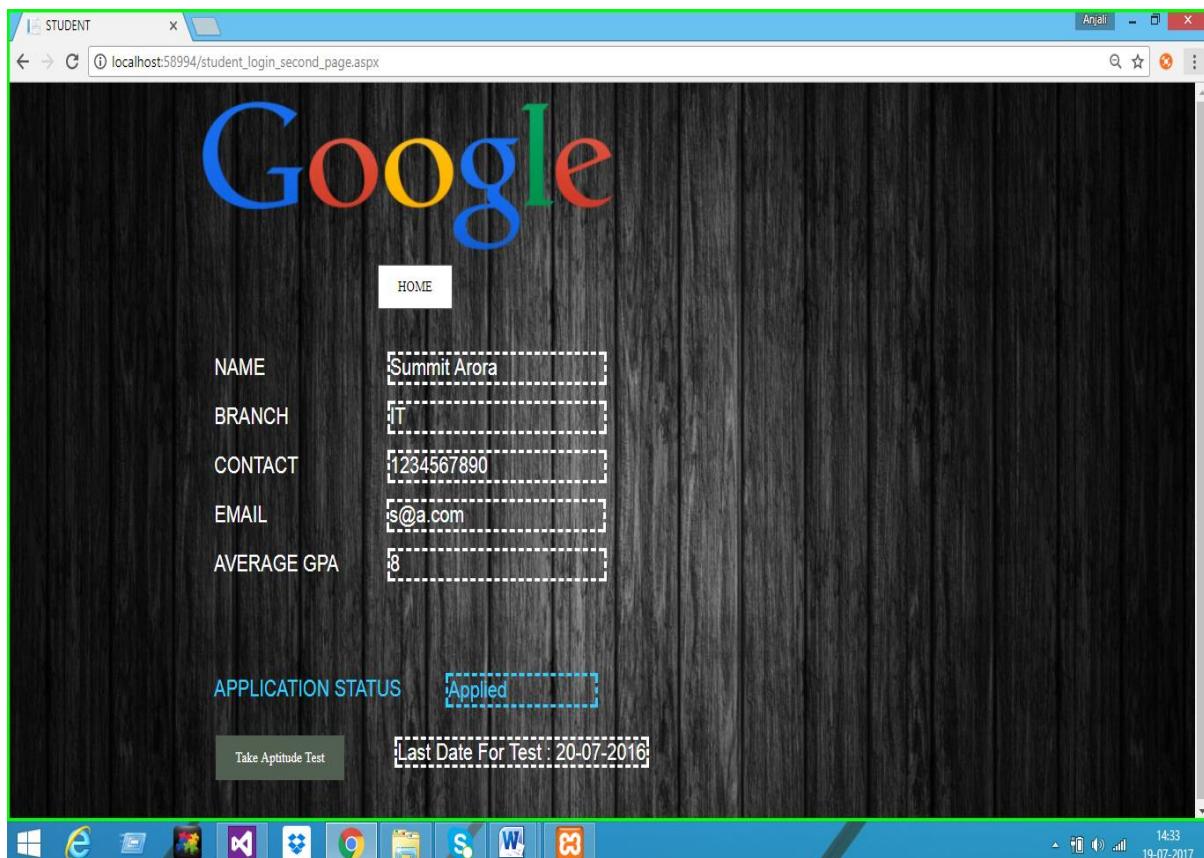
NAME	Summit Arora
BRANCH	IT
CONTACT	1234567890
EMAIL	s@a.com
AVERAGE GPA	8

APPLICATION STATUS Not Selected



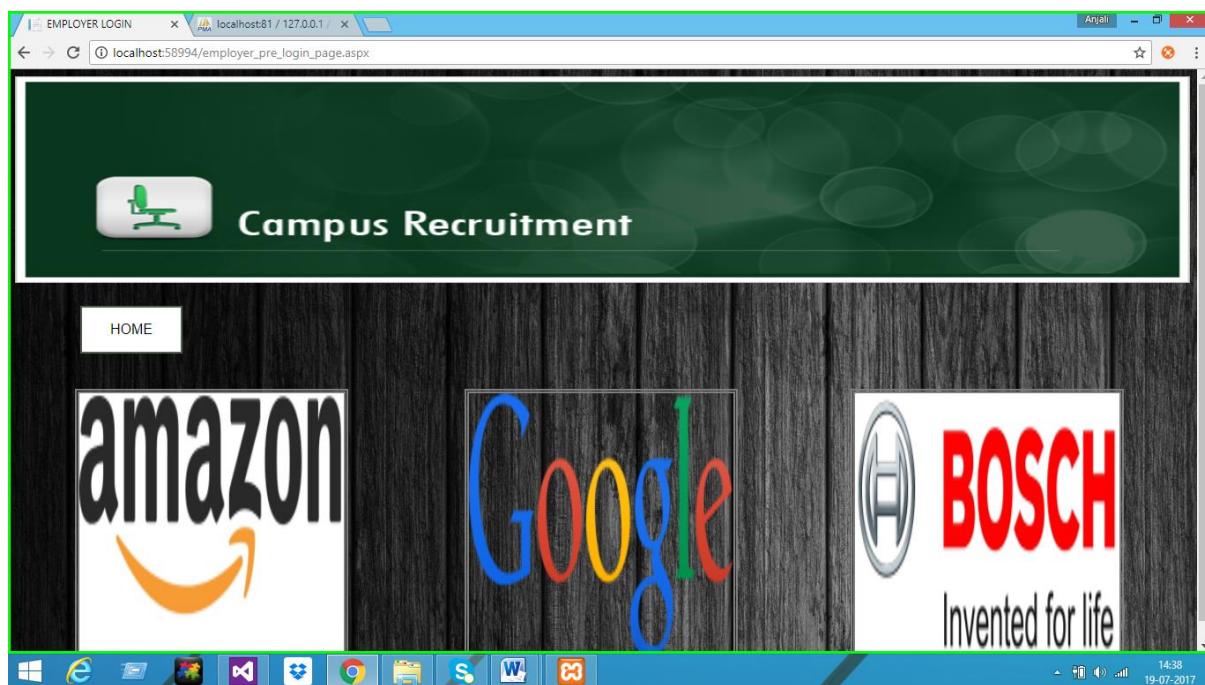
14:31
19-07-2017





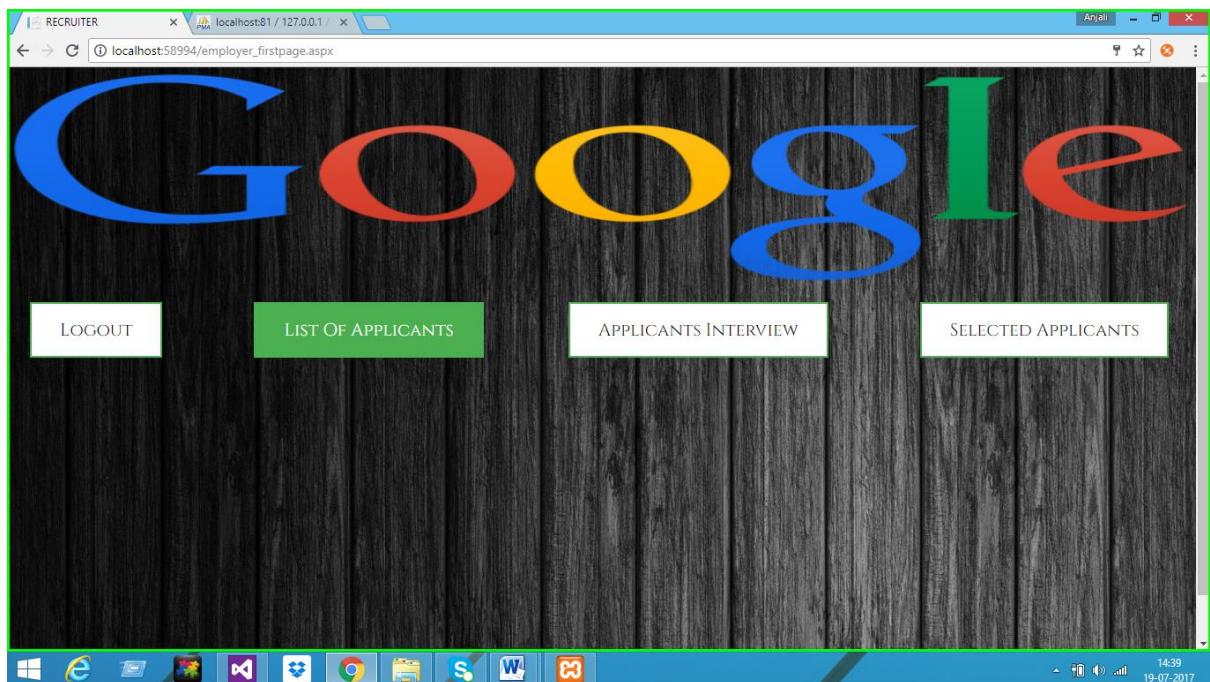
PAGE: employer_pre_login_page.aspx

LAYOUT:



PAGE: employer_firstpage.aspx

LAYOUT:

A screenshot of the same web browser window as above, showing the "LIST OF APPLICANTS" button selected. Below the buttons is a table with the following data:

Resume	enroll_number	name	branch	contact	email	avg_gpa	resume	apti_marks	application_status
Download	130401	Rishav Roy	CSE	1234567890	r@r.com	9	130401.pdf	0	Applied
Download	130402	Summit Arora	IT	1234567890	s@a.com	8	130402.pdf	-1	Applied
Download	130403	Abhay Sinha	IT	1234567890	a@s.com	7.77	130403.pdf	-1	Applied
Download	130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93	130404.pdf	-1	Applied
Download	130405	Manish Lohia	EE	1234567890	a@l.com	8.43	130405.pdf	-1	Applied

Enrollment Number

The browser and taskbar are identical to the first screenshot.

RECRUITER

localhost:58994/employer_firstpage.aspx

NAME	Rishav Roy
BRANCH	CSE
CONTACT	1234567890
EMAIL	r@r.com
AVERAGE GPA	9

Enter Aptitude Test Cutoff

Windows Taskbar: File Explorer, Internet Explorer, Control Panel, Task View, File, Google Chrome, File Manager, System, Word, Paint

System Tray: 14:40, 19-07-2017

RECRUITER

localhost:58994/employer_firstpage.aspx

Google

LOGOUT	LIST OF APPLICANTS	APPLICANTS INTERVIEW	SELECTED APPLICANTS
------------------------	------------------------------------	--------------------------------------	-------------------------------------

Resume	enroll_number	name	branch	contact	email	avg_gpa	resume	apti_marks	interview_marks	final_marks
Download	130401	Rishav Roy	CSE	1234567890	r@r.com	9	130401.pdf	0	-1	-1
Download	130402	Summit Arora	IT	1234567890	s@a.com	8	130402.pdf	-1	-1	-1
Download	130403	Abhay Sinha	IT	1234567890	a@s.com	7.77	130403.pdf	-1	-1	-1
Download	130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93	130404.pdf	-1	-1	-1
Download	130405	Manish Lohia	EE	1234567890	a@l.com	8.43	130405.pdf	-1	-1	-1

Enrollment Number

Windows Taskbar: File Explorer, Internet Explorer, Control Panel, Task View, File, Google Chrome, File Manager, System, Word, Paint

System Tray: 14:40, 19-07-2017

RECRUITER

localhost:58994/employer_firstpage.aspx

Enrollment Number

Enter Enrollment Number

Enter Interview Marks

Enter Number Of Candidates To Be Selected

RECRUITER

localhost:58994/employer_firstpage.aspx

LOGOUT

Resume	enroll number	name	branch	contact	email	avg gpa	resume	apti marks	interview marks	final marks
Download	130401	Rishav Roy	CSE	1234567890	r@r.com	9	130401.pdf	0	50	3000
Download	130402	Summit Arora	IT	1234567890	s@a.com	8	130402.pdf	-1	50	2960
Download	130403	Abhay Sinha	IT	1234567890	a@s.com	7.77	130403.pdf	-1	54	3200
Download	130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93	130404.pdf	-1	88	5240
Download	130405	Manish Lohia	EE	1234567890	a@l.com	8.43	130405.pdf	-1	54	3200

Enrollment Number

RECRUITER

localhost:58994/employer_firstpage.aspx

Google

LOGOUT LIST OF APPLICANTS APPLICANTS INTERVIEW SELECTED APPLICANTS

Resume	enroll_number	name	branch	contact	email	avg_gpa	resume	apti_marks	interview_marks	final_marks
Download	130401	Rishav Roy	CSE	1234567890	r@r.com	9	130401.pdf	0	50	3000
Download	130402	Summit Arora	IT	1234567890	s@a.com	8	130402.pdf	-1	50	2960
Download	130403	Abhay Sinha	IT	1234567890	a@s.com	7.77	130403.pdf	-1	54	3200
Download	130404	Mukesh Kumar	CSE	1234567890	m@k.com	8.93	130404.pdf	-1	88	5240
Download	130405	Manish Lohia	EE	1234567890	a@l.com	8.43	130405.pdf	-1	54	3200

Enrollment Number

14:42 19-07-2017

RECRUITER

localhost:58994/employer_firstpage.aspx

Google

LOGOUT LIST OF APPLICANTS APPLICANTS INTERVIEW SELECTED APPLICANTS

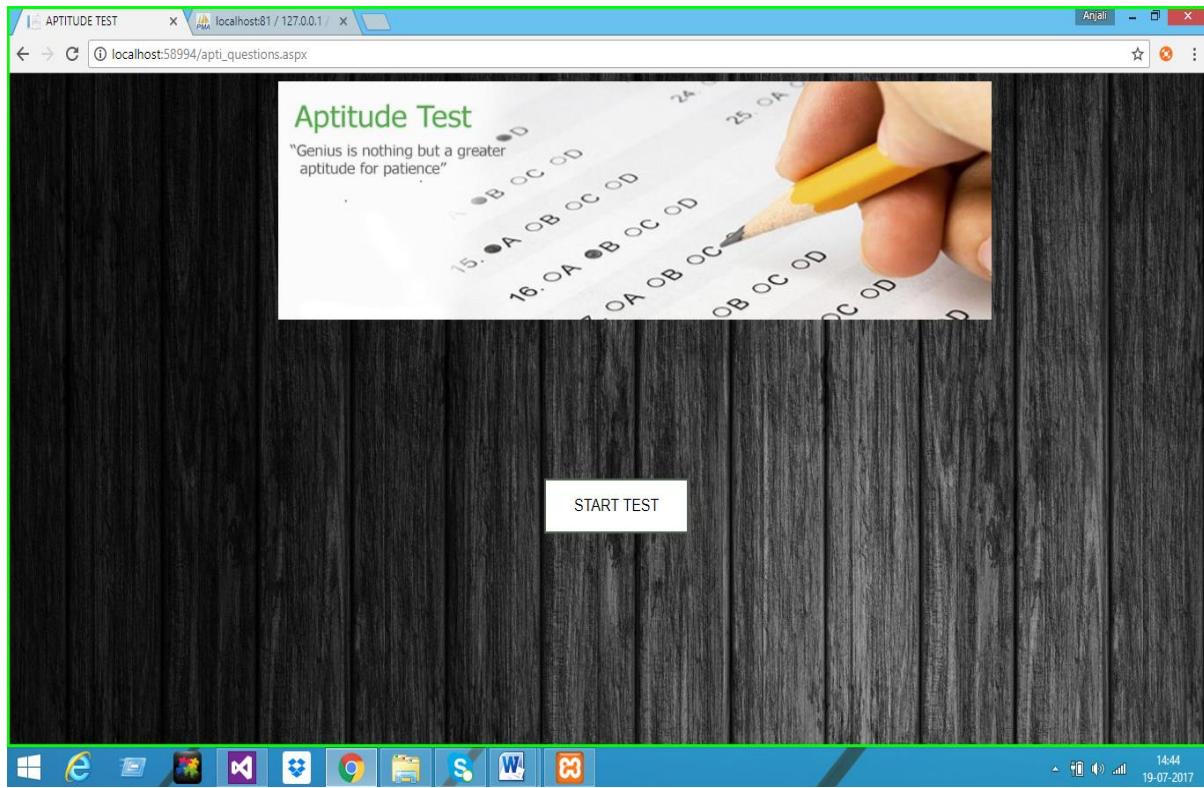
Resume	enroll_number	name	branch	contact	email	avg_gpa	resume	apti_marks	interview_marks	final_marks
Download	130403	Abhay Sinha	IT	1234567890	a@s.com	8	130403.pdf	-1	54	3200
Download	130404	Mukesh Kumar	CSE	1234567890	m@k.com	9	130404.pdf	-1	88	5240
Download	130405	Manish Lohia	EE	1234567890	a@l.com	8	130405.pdf	-1	54	3200

Enrollment Number

14:42 19-07-2017

PAGE: apti_questions_page.aspx

LAYOUT:



A screenshot of the same web browser window from the previous image. The main content now displays a question: "Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ?". Below the question are four answer options: • 4, • 10, • 15, and • 16. At the bottom of the page is a white rectangular button with the text "Click to submit". The taskbar at the bottom shows various application icons.

FUTURE SCOPE OF IMPROVEMENTS:

The future aspects of the application which can be incorporated to improve the functionality and user experience can be listed as below:

- Firstly, we can make the system more advanced in terms of functionalities.
- Secondly, we can introduce online interview process as well. This will require a highly developed Artificial Intelligence capable of analysing voices to interpret the words which will help in analysing how appropriate the answer is. It will include image processing through web cams of user to determine the personality traits. These can be implemented using OpenCV , python, Image Processing Machine Learning and Data Science.
- Thirdly, we can introduce more no of colleges within the same portal.
- Fourthly, we can incorporate other colleges and institutes apart from engineering as well.
- Lastly, we can make this software so advanced that it will be used by all colleges and companies as a common portal for recruitment.

SOURCE CODE:

PAGE: home_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
namespace WebApplication5
{
    public partial class WebForm1 : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void student_login_Click(object sender, EventArgs e)
        {
            Session["authentication"] = "student_login";
            Response.Redirect("login_page.aspx");
        }

        protected void employer_login_Click(object sender, EventArgs e)
        {
            Session["authentication"] = "employer_login";
            Response.Redirect("employer_pre_login_page.aspx");
        }

        protected void college_login_Click(object sender, EventArgs e)
        {
```

```
Session["authentication"] = "college_login";
Response.Redirect("login_page.aspx");
}
}
}
```

PAGE: login_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using MySql.Data.MySqlClient;
namespace WebApplication5
{
    public partial class login_page : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }
        protected void login_btn_Click(object sender, EventArgs e)
        {
            //Checking for valid users //
            string con =
"server=localhost;userid=root;password=root;database=placement_drive";
            string t = "select * from " + Session["authentication"].ToString()
+ " where user_id=@id and pswd=@psd";
            MySqlConnection dbcon = new MySqlConnection(con);
            dbcon.Open();
            MySqlCommand cdb = new MySqlCommand(t, dbcon);
            try
            {
                cdb.Parameters.AddWithValue("@id",
int.Parse(user_id.Text));
                cdb.Parameters.AddWithValue("@psd",
int.Parse(ps_wd.Text));
            }
        }
    }
}
```

```

MySqlDataReader r = cdb.ExecuteReader();
if (r.Read())
{
    if (Session["authentication"].ToString() == "student_login")
    {
        Session["userid"] = user_id.Text;
        Response.Redirect("student_login_first_page.aspx");
    }
    else if
        (Session["authentication"].ToString() == "employer_login")
    {
        Session["userid"] = user_id.Text;
        Response.Redirect("employer_firstpage.aspx");
    }
    else if
        (Session["authentication"].ToString() == "college_login")
    {
        Session["userid"] = user_id.Text;
        Response.Redirect("college_startup_page.aspx");
    }
}
else
{
    error_msg.Visible = true;
    user_id.Text = "";
    ps_wd.Text = "";
}
dbcon.Close();
}
catch (Exception)
{
    user_id.Text = "";
}

```

```
        ScriptManager.RegisterStartupScript(this.Page,
this.Page.GetType(), "err_msg", "alert('PLEASE ENTER VALID
DETAILS!');", true);
    }
}

protected void home_btn_Click(object sender, EventArgs e)
{
    Session["authentication"]="";
    Response.Redirect("home_page.aspx");
}
}
```

PAGE: college_startup_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication5
{
    public partial class college_startup_page : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            fetch_details.Visible = false;
            type_list.Visible = false;
            company_list.Visible = false;
            GridView1.Visible = false;
        }

        protected void student_wise_details_Click(object sender,
EventArgs e)
        {
            // Setting the UI elements //
            fetch_details.Visible = false;
            type_list.Visible = false;
            company_list.Visible = false;
            GridView1.Visible = true;
            GridView1.DataSourceID = "student_details";
            GridView1.DataBind();
        }
    }
}
```

```

protected void comapny_wise_details_Click(object sender,
EventArgs e)
{
    // Setting the UI elements //
    fetch_details.Visible = true;
    type_list.Visible = true;
    company_list.Visible = true;
}

protected void fetch_details_Click(object sender, EventArgs e)
{
    if (type_list.SelectedValue == "1")
    {
        if (company_list.SelectedValue == "3")
        {
            // Setting the UI elements //
            fetch_details.Visible = true;
            type_list.Visible = true;
            company_list.Visible = true;
            GridView1.Visible = true;
            GridView1.DataSourceID = "amazon_applied";
            GridView1.DataBind();
        }
        if (company_list.SelectedValue == "2")
        {
            // Setting the UI elements //
            fetch_details.Visible = true;
            type_list.Visible = true;
            company_list.Visible = true;
            GridView1.Visible = true;
            GridView1.DataSourceID = "bosch_applied";
            GridView1.DataBind();
        }
        if (company_list.SelectedValue == "1")
    }
}

```

```

    {
        // Setting the UI elements //
        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "google_applied";
        GridView1.DataBind();
    }
}

if (type_list.SelectedValue == "2")
{
    if (company_list.SelectedValue == "3")
    {
        // Setting the UI elements //
        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "amazon_apti_cleared";
        GridView1.DataBind();
    }
    if (company_list.SelectedValue == "2")
    {
        // Setting the UI elements //
        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "bosch_apti_cleared";
        GridView1.DataBind();
    }
    if (company_list.SelectedValue == "1")
    {

```

```

// Setting the UI elements //
fetch_details.Visible = true;
type_list.Visible = true;
company_list.Visible = true;
GridView1.Visible = true;
GridView1.DataSourceID = "google_apti_cleared";
GridView1.DataBind();
}
}

if (type_list.SelectedValue == "3")
{
    if (company_list.SelectedValue == "3")
    {
        // Setting the UI elements //
        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "amazon_selected";
        GridView1.DataBind();
    }
    if (company_list.SelectedValue == "2")
    {
        // Setting the UI elements //
        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "bosch_selected";
        GridView1.DataBind();
    }
    if (company_list.SelectedValue == "1")
    {
        // Setting the UI elements //

```

```

        fetch_details.Visible = true;
        type_list.Visible = true;
        company_list.Visible = true;
        GridView1.Visible = true;
        GridView1.DataSourceID = "google_selected";
        GridView1.DataBind();
    }

}

protected void logout_Click(object sender, EventArgs e)
{
    // Setting the Session Elements //
    Session["userid"] = "";
    Session["company"] = "";
    Session["company_apti_cleared"] = "";
    Session["company_selected"] = "";
    Session["authentication"] = "";
    Response.Redirect("home_page.aspx");
}
}
}

```

PAGE: student_login_first_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication5
{
    public partial class student_login_first_page : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void amazon_Click(object sender, ImageClickEventArgs e)
        {
            // Setting the Session Elements //
            Session["company"] = "amazon_applied";
            Session["company_apti_cleared"] = "amazon_apti_passed";
            Session["company_selected"] = "amazon_selected_student";
            Response.Redirect("student_login_second_page.aspx");
        }

        protected void google_Click(object sender, ImageClickEventArgs e)
        {
            // Setting the Session Elements //
            Session["company"] = "google_applied";
            Session["company_apti_cleared"] = "google_apti_passed";
        }
    }
}
```

```

Session["company_selected"] = "google_selected_student";
Response.Redirect("student_login_second_page.aspx");
}

protected void bosch_Click(object sender, ImageClickEventArgs e)
{
    // Setting the Session Elements //
    Session["company"] = "bosch_applied";
    Session["company_apti_cleared"] = "bosch_apti_passed";
    Session["company_selected"] = "bosch_selected_student";
    Response.Redirect("student_login_second_page.aspx");
}

protected void logout_btn_Click(object sender, EventArgs e)
{
    // Setting the Session Elements //
    Session["userid"]="";
    Session["company"] = "";
    Session["company_apti_cleared"] = "";
    Session["company_selected"] = "";
    Session["authentication"]="";
    Response.Redirect("home_page.aspx");
}

}
}

```

PAGE: student_login_second_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using MySql.Data.MySqlClient;
using System.IO;

namespace WebApplication5
{
    public partial class student_login_second_page : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            Session["lastdate"] = "Last Date For Test : 20-07-2016";
            Session["interviewdate"] = "Reach Your Campus on 27-07-2017
by 9:00 AM For Interview";
            if (Session["company"] == null)
            {
                Response.Redirect("home_page.aspx");
            }
            if (Session["company"].ToString() == "amazon_applied")
            {
                Image1.ImageUrl = "~/Images/amazon-logo2-1920.png";
            }
            else if (Session["company"].ToString() == "google_applied")
            {
                Image1.ImageUrl = "~/Images/Google.png";
            }
            else
        }
```

```

{
    Image1.ImageUrl = "~/Images/bosch-tools-logo.jpg";
}
// Setting the UI Elements //
Name.Visible = true;

na_me.Visible = true;
Branch.Visible = true;
b_ranch.Visible = true;
Email.Visible = true;
e_mail.Visible = true;
contact.Visible = true;
c_ontact.Visible = true;
avg_gpa.Visible = true;
Avg_gpa.Visible = true;
// Fetching the details of the candidate and accordingly setting
the application status and hiding or showing the aptitude test button //
string con = "server=localhost;user
id=root;password=root;database=placement_drive";
string t = "select * from student_details where
enroll_number=@id";
string t1 = "select * from "+Session["company"].ToString()+""
where enroll_number=@id";
MySqlConnection dbcon = new MySqlConnection(con);
dbcon.Open();
MySqlCommand cdb1 = new MySqlCommand(t1, dbcon);
cdb1.Parameters.AddWithValue("@id", Session["userid"]);
MySqlDataReader r1 = cdb1.ExecuteReader();
if (r1.Read())
{
    apply.Visible = false;
    FileUpload1.Visible = false;
    application_status.Text = r1.GetValue(8).ToString();
    int marks = int.Parse(r1.GetValue(7).ToString());
}

```

```

if (marks == -1)
{
    test_btn.Visible = true;
    last_date.Visible = true;
    last_date.Text = Session["lastdate"].ToString();
}
else if (r1.GetValue(8).ToString() == "Aptitude Cleared")
{
    interview_date.Visible = true;
    interview_date.Text= Session["interviewdate"].ToString();
}
else
{
    application_status.Text = "Not Applied";
}
dbcon.Close();
dbcon.Open();
MySqlCommand cdb = new MySqlCommand(t, dbcon);
cdb.Parameters.AddWithValue("@id", (Session["userid"]));
MySqlDataReader r = cdb.ExecuteReader();
if (r.Read())
{
    na_me.Text = r.GetValue(1).ToString();
    b_ranch.Text = r.GetValue(2).ToString();
    c_ontact.Text = r.GetValue(3).ToString();
    e_mail.Text = r.GetValue(4).ToString();
    avg_gpa.Text = r.GetValue(5).ToString();
}
else
{
}
dbcon.Close();

```

```

        }
    protected void apply_Click(object sender, EventArgs e)
    {
        if (FileUpload1.HasFile)
        {
            // Resume upload file checking for type and size //
            string fileExtension =
System.IO.Path.GetExtension(FileUpload1.FileName);
            if (fileExtension.ToLower() != ".pdf")
            {
                file_upload_error.Visible = true;
                file_upload_error.Text = "Only pdf files allowed";
            }
            else
            {
                int fileSize = FileUpload1.PostedFile.ContentLength;
                if (fileSize > 1048576)
                {
                    file_upload_error.Visible = true;
                    file_upload_error.Text = "file size max 1MB";
                }
                else
                {
                    // Storing the details to the table of the company to
                    // which the form is submitted //
                    string fil = Convert.ToString(Session["userid"]);
                    string ext = ".pdf";
                    fil = string.Concat(fil, ext);
                    FileUpload1.SaveAs(Server.MapPath("~/amazon/" +
fil));
                    file_upload_error.Text = "file uploaded";
                    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
                }
            }
        }
    }
}

```

```

        string t = "insert into " + Session["company"].ToString()
+ " (enroll_number, name, branch, contact, email, avg_gpa) SELECT
enroll_number, name, branch, contact, email, avg_gpa FROM
student_details WHERE enroll_number=@id ";
        MySqlConnection dbcon = new MySqlConnection(con);
        dbcon.Open();
        MySqlCommand cdb = new MySqlCommand(t, dbcon);
        cdb.Parameters.AddWithValue("@id",
(Session["userid"]));
        int r = cdb.ExecuteNonQuery();
        if (r != 0)
        {
            apply.Visible = false;
            FileUpload1.Visible = false;
            application_status.Text = "Applied";
            test_btn.Visible = true;
            last_date.Visible = true;
            last_date.Text = Session["lastdate"].ToString();
        }
        else
        {
            application_status.Text = "Not Applied";
        }
        dbcon.Close();
        dbcon.Open();
        string t1 = "update " + Session["company"].ToString() +
" set resume=@resume where enroll_number=@id";
        MySqlCommand cdb1 = new MySqlCommand(t1,
dbcon);
        cdb1.Parameters.AddWithValue("@id",
(Session["userid"]));
        cdb1.Parameters.AddWithValue("@resume", fil);
        int r1 = cdb1.ExecuteNonQuery();
        if (r1 != 0)

```

```

        {
            apply.Visible = false;
            FileUpload1.Visible = false;
            application_status.Text = "Applied";
        }
        else
        {
            application_status.Text = "Not Applied";
        }
        dbcon.Close();
        file_upload_error.Visible=false;
    }
}
else
{
    file_upload_error.Visible = true;
    file_upload_error.Text = "select a file to upload";
}
}
protected void home_btn_Click(object sender, EventArgs e)
{
    // Setting the Session Elements //
    Session["company"] = "";
    Session["company_apti_cleared"] = "";
    Session["company_selected"] = "";
    Response.Redirect("student_login_first_page.aspx");
}
protected void test_btn_Click(object sender, EventArgs e)
{
    Response.Redirect("apti_questions.aspx");
}
}
}

```

PAGE: employer_pre_login_page.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

namespace WebApplication5
{
    public partial class employer_pre_login_page : System.Web.UI.Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        protected void home_btn_Click(object sender, EventArgs e)
        {
            Session["authentication"] = "";
            Response.Redirect("home_page.aspx");
        }

        protected void amazon_Click(object sender, ImageClickEventArgs e)
        {
            // Setting the Session Elements //
            Session["company"] = "amazon_applied";
            Session["company_apti_cleared"] = "amazon_apti_passed";
            Session["company_selected"] = "amazon_selected_student";
        }
    }
}
```

```
        Response.Redirect("login_page.aspx");
    }

protected void google_Click(object sender, ImageClickEventArgs e)
{
    // Setting the Session Elements //
    Session["company"] = "google_applied";
    Session["company_apti_cleared"] = "google_apti_passed";
    Session["company_selected"] = "google_selected_student";
    Response.Redirect("login_page.aspx");
}

protected void bosch_Click(object sender, ImageClickEventArgs e)
{
    // Setting the Session Elements //
    Session["company"] = "bosch_applied";
    Session["company_apti_cleared"] = "bosch_apti_passed";
    Session["company_selected"] = "bosch_selected_student";
    Response.Redirect("login_page.aspx");
}
}
```

PAGE: employer_firstpage.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using MySql.Data.MySqlClient;
using System.IO;
using System.Data;
namespace WebApplication5
{
    public partial class employer_firstpage : System.Web.UI.Page
    {
        public static int flag = 0;
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                // Setting the UI Elements //
                GridView1.Visible = false;
                cut_off.Visible = false;
                cutoff.Visible = false;
                generate_btn.Visible = false;
                interview_id.Visible = false;
                interview_mark.Visible = false;
                update_btn.Visible = false;
                interviewmark.Visible = false;
                intervieid.Visible = false;
                Name.Visible = false;
                na_me.Visible = false;
            }
        }
    }
}
```

```

Branch.Visible = false;
reset_selection.Visible = false;
b_ranch.Visible = false;
Email.Visible = false;
e_mail.Visible = false;
contact.Visible = false;
c_ontact.Visible = false;
avg_gpa.Visible = false;
Avg_gpa.Visible = false;
if (Session["company"]== null)
{
    Response.Redirect("home_page.aspx");
}
if (Session["company"].ToString() == "amazon_applied")
{
    Image1.ImageUrl = "~/Images/amazon-logo2-1920.png";
}
else if (Session["company"].ToString() == "google_applied")
{
    Image1.ImageUrl = "~/Images/Google.png";
}
else if (Session["company"].ToString() == "bosch_applied")
{
    Image1.ImageUrl = "~/Images/bosch-tools-logo.jpg";
}
if (flag == 0)
{
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
    string t = "select * from " +
Session["company_apti_cleared"].ToString() + " ";

```

```

MySqlCommand cdb = new MySqlCommand(t, dbcon);
MySqlDataReader r = cdb.ExecuteReader();
if (r.Read())
{
}

else
{
}

}
dbcon.Close();

}

else if (flag == 1)
{
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
    string t = "select * from " +
Session["company_selected"].ToString() + " ";
    MySqlCommand cdb = new MySqlCommand(t, dbcon);
    MySqlDataReader r = cdb.ExecuteReader();
    if (r.Read())
    {
}

else
{
}

}
dbcon.Close();
}
}

```

```

protected void generate_btn_Click(object sender, EventArgs e)
{
    try
    {
        if (flag == 1)
        {
            // Setting the Interview cleared candidates list //
            string con = "server=localhost;user
id=root;password=root;database=placement_drive";
            MySqlConnection dbcon = new MySqlConnection(con);
            dbcon.Open();
            string transfer = "INSERT INTO " +
Session["company_selected"].ToString() + " (enroll_number, name,
branch, contact, email, avg_gpa, resume, apti_marks ,interview_marks,
final_marks) (select * from " +
Session["company_apti_cleared"].ToString() + " order by final_marks
desc limit @limit) ";
            MySqlCommand cdb = new MySqlCommand(transfer,
dbcon);
            cdb.Parameters.AddWithValue("@limit",
int.Parse(cut_off.Text));
            string status_update1 = "update " +
Session["company"].ToString() + " set application_status='Selected'
where enroll_number in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";
            MySqlCommand cdb1 = new
MySqlCommand(status_update1, dbcon);
            string status_update2 = "update " +
Session["company"].ToString() + " set application_status='Not selected'
where enroll_number not in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";
            MySqlCommand cdb2 = new
MySqlCommand(status_update2, dbcon);
    }
}

```

```

int r = cdb.ExecuteNonQuery();
int r1 = cdb1.ExecuteNonQuery();
int r2 = cdb2.ExecuteNonQuery();
if (r != 0)
{
}

else
{

}

dbcon.Close();
flag = 1;
GridView1.Visible = true;
if (Session["company"].ToString() == "amazon_applied")
{
    GridView1.DataSourceID = "applicant_interview_list";
}
else if (Session["company"].ToString() ==
"google_applied")
{
    GridView1.DataSourceID = "google_interview";
}

else
{
    GridView1.DataSourceID = "bosch_interview";
}

// Setting the UI Elements //
GridView1.DataBind();
cut_off.Visible = true;
cut_off.Text = "";
cutoff.Visible = true;

```

```

        cutoff.Text = "Enter Number Of Candidates To Be
Selected";
        generate_btn.Visible = true;
        enrollment_number.Visible = true;
        enrollmentnumber.Visible = true;
        interview_id.Visible = true;
        interview_id.Text = "";
        interview_mark.Text = "";
        interview_mark.Visible = true;
        update_btn.Visible = true;
        interviewmark.Visible = true;
        details_btn.Visible = true;
        intervieid.Visible = true;
        Name.Visible = false;

        na_me.Visible = false;
        Branch.Visible = false;

        b_ranch.Visible = false;
        Email.Visible = false;
        e_mail.Visible = false;
        contact.Visible = false;
        c_ontact.Visible = false;
        avg_gpa.Visible = false;
        Avg_gpa.Visible = false;

    }

else
{
    // Setting the Aptitude cleared candidates list //
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
}

```

```

        string transfer = "INSERT INTO " +
Session["company_apti_cleared"].ToString() + " (enroll_number, name,
branch, contact, email, avg_gpa, resume, apti_marks) (SELECT
enroll_number, name, branch, contact, email, avg_gpa, resume,
apti_marks FROM " + Session["company"].ToString() + " where
apti_marks>=@marks order by apti_marks desc) ";
        MySqlCommand cdb = new MySqlCommand(transfer,
dbcon);
        cdb.Parameters.AddWithValue("@marks",
int.Parse(cut_off.Text));
        string status_update1 = "update " +
Session["company"].ToString() + " set application_status='Aptitude
Cleared' where enroll_number in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";
        MySqlCommand cdb1 = new
MySqlCommand(status_update1, dbcon);
        string status_update2 = "update " +
Session["company"].ToString() + " set application_status='Not
Selected' where enroll_number not in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";
        MySqlCommand cdb2 = new
MySqlCommand(status_update2, dbcon);
        int r = cdb.ExecuteNonQuery();
        int r1 = cdb1.ExecuteNonQuery();
        int r2 = cdb2.ExecuteNonQuery();
        if (r != 0)
        {
        }
        else
        {
        }
    }
    dbcon.Close();
}

```

```

flag = 0;
enrollment_number.Visible = true;
enrollmentnumber.Visible = true;
GridView1.Visible = true;
if (Session["company"].ToString() == "amazon_applied")
{
    GridView1.DataSourceID = "SqlDataSource2";
}
else if (Session["company"].ToString() ==
"google_applied")
{
    GridView1.DataSourceID = "google_applicant";
}

else
{
    GridView1.DataSourceID = "bosch_applicant";
}

// Setting the UI Elements //
cut_off.Visible = true;
cutoff.Visible = true;
cutoff.Text = "Enter Aptitude Test Cutoff";
generate_btn.Visible = true;
cut_off.Text = "";
details_btn.Visible = true;
Name.Visible = false;

na_me.Visible = false;
Branch.Visible = false;

b_ranch.Visible = false;
Email.Visible = false;
e_mail.Visible = false;
contact.Visible = false;

```

```

        c_contact.Visible = false;
        avg_gpa.Visible = false;
        Avg_gpa.Visible = false;
    }
}
catch (Exception)
{
    cut_off.Text = "";
    ScriptManager.RegisterStartupScript(this.Page,
this.Page.GetType(), "err_msg", "alert('PLEASE ENTER VALID
DATA OR TRY RE-SETTING LAST SELECTION');", true);
}
}

```

```

protected void list_applicant_Click(object sender, EventArgs e)
{
    flag = 0;
    GridView1.Visible = true;
    enrollment_number.Visible = true;
    enrollmentnumber.Visible = true;
    details_btn.Visible = true;
    if (Session["company"].ToString() == "amazon_applied")
    {
        GridView1.DataSourceID = "SqlDataSource2";
    }
    else if (Session["company"].ToString() == "google_applied")
    {
        GridView1.DataSourceID = "google_applicant";
    }
    else
    {
        GridView1.DataSourceID = "bosch_applicant";
    }
}

```

```

// Setting the UI Elements //
cut_off.Visible = true;
cutoff.Visible = true;
cutoff.Text = "Enter Aptitude Test Cutoff";
generate_btn.Visible = true;
cut_off.Text = "";
Name.Visible = false;
enrollment_number.Text = "";
na_me.Visible = false;
Branch.Visible = false;
reset_selection.Visible = true;
b_ranch.Visible = false;
Email.Visible = false;
e_mail.Visible = false;
contact.Visible = false;
c_ontact.Visible = false;
avg_gpa.Visible = false;
Avg_gpa.Visible = false;
intervieid.Visible = false;
interview_id.Visible = false;
interview_mark.Visible = false;
interviewmark.Visible = false;
update_btn.Visible = false;
}

```

```

protected void applicant_interview_Click(object sender, EventArgs
e)
{
    flag = 1;
    enrollment_number.Visible = true;
    enrollmentnumber.Visible = true;
    GridView1.Visible = true;
    if (Session["company"].ToString() == "amazon_applied")
    {

```

```

        GridView1.DataSourceID = "applicant_interview_list";
    }
    else if (Session["company"].ToString() == "google_applied")
    {
        GridView1.DataSourceID = "google_interview";
    }
    else
    {
        GridView1.DataSourceID = "bosch_interview";
    }
// Setting the UI Elements //
GridView1.DataBind();
cut_off.Visible = true;
cut_off.Text = "";
cutoff.Visible = true;
cutoff.Text = "Enter Number Of Candidates To Be Selected";
generate_btn.Visible = true;
details_btn.Visible = true;
interview_id.Visible = true;
interview_id.Text = "";
interview_mark.Text = "";
interview_mark.Visible = true;
update_btn.Visible = true;
interviewmark.Visible = true;
intervieid.Visible = true;
Name.Visible = false;
reset_selection.Visible = true;
na_me.Visible = false;
Branch.Visible = false;
enrollment_number.Text = "";
b_ranch.Visible = false;
Email.Visible = false;
e_mail.Visible = false;

```

```

        contact.Visible = false;
        c_ontact.Visible = false;
        avg_gpa.Visible = false;
        Avg_gpa.Visible = false;
    }

protected void update_btn_Click(object sender, EventArgs e)
{
    try
    {
        string con = "server=localhost;user
id=root;password=root;database=placement_drive";
        MySqlConnection dbcon = new MySqlConnection(con);
        dbcon.Open();
        string transfer = "update " +
Session["company_apti_cleared"].ToString() + " set
interview_marks=@marks, final_marks=(40*apti_marks+60*@marks)
where enroll_number=@id ";
        MySqlCommand cdb = new MySqlCommand(transfer,
dbcon);
        cdb.Parameters.AddWithValue("@id",
int.Parse(interview_id.Text));
        cdb.Parameters.AddWithValue("@marks",
int.Parse(interview_mark.Text));
        int r = cdb.ExecuteNonQuery();
        if (r != 0)
        {
            }
        else
        {
            }
    }
    dbcon.Close();
}

```

```

flag = 1;
// Setting the UI Elements //
GridView1.Visible = true;
if (Session["company"].ToString() == "amazon_applied")
{
    GridView1.DataSourceID = "applicant_interview_list";
}
else if (Session["company"].ToString() == "google_applied")
{
    GridView1.DataSourceID = "google_interview";
}

else
{
    GridView1.DataSourceID = "bosch_interview";
}
GridView1.DataBind();
cut_off.Visible = true;
cut_off.Text = "";
cutoff.Visible = true;
cutoff.Text = "Enter Number Of Candidates To Be Selected";
generate_btn.Visible = true;
enrollment_number.Visible = true;
enrollmentnumber.Visible = true;
interview_id.Visible = true;
interview_id.Text = "";
interview_mark.Text = "";
interview_mark.Visible = true;
update_btn.Visible = true;
interviewmark.Visible = true;
intervieid.Visible = true;
details_btn.Visible = true;
Name.Visible = false;
na_me.Visible = false;

```

```

        Branch.Visible = false;
        b_ranch.Visible = false;
        Email.Visible = false;
        e_mail.Visible = false;
        contact.Visible = false;
        c_ontact.Visible = false;
        avg_gpa.Visible = false;
        Avg_gpa.Visible = false;
    }
    catch (Exception)
    {
        interview_id.Text = "";
        interview_mark.Text = "";
        ScriptManager.RegisterStartupScript(this.Page,
this.Page.GetType(), "err_msg", "alert('PLEASE ENTER VALID
DETAILS!');", true);
    }
}

protected void selected_applicant_list_Click(object sender,
EventArgs e)
{
    flag = 2;
    enrollment_number.Visible = true;
    enrollmentnumber.Visible = true;
    details_btn.Visible = true;
    GridView1.Visible = true;
    if (Session["company"].ToString() == "amazon_applied")
    {
        GridView1.DataSourceID = "selected_list";
    }
    else if (Session["company"].ToString() == "google_applied")
    {
        GridView1.DataSourceID = "google_select";
    }
}

```

```

        }
    else
    {
        GridView1.DataSourceID = "bosch_select";
    }
    // Setting the UI Elements //
    GridView1.DataBind();
    Name.Visible = false;
    enrollment_number.Text = "";
    na_me.Visible = false;
    Branch.Visible = false;
    reset_selection.Visible = false;
    b_ranch.Visible = false;
    Email.Visible = false;
    e_mail.Visible = false;
    contact.Visible = false;
    c_ontact.Visible = false;
    avg_gpa.Visible = false;
    Avg_gpa.Visible = false;
    intervieid.Visible = false;
    interview_id.Visible = false;
    interview_mark.Visible = false;
    interviewmark.Visible = false;
    update_btn.Visible = false;
    cut_off.Visible = false;
    cutoff.Visible = false;
    generate_btn.Visible = false;
}

```

```

protected void GridView1_RowCommand(object sender,
GridViewCommandEventArgs e)
{
    if (e.CommandName == "download")
    {

```

```

        int index = Convert.ToInt32(e.CommandArgument);
        string url = GridView1.Rows[index].Cells[1].Text;
        string ext = ".pdf";
        url = string.Concat(url, ext);
        Response.Clear();
        Response.ContentType = "application/octect-Stream";
        Response.AppendHeader("content-disposition", "filename=" +
+ url);
        Response.TransmitFile(Server.MapPath("~/amazon/") + url);
        Response.End();
    }
}

protected void details_btn_Click(object sender, EventArgs e)
{
    try
    {
        // Selects data accordingly to be displayed if either of the three
        buttons are displayed //
        string con = "server=localhost;user
id=root;password=root;database=placement_drive";
        string t = "select * from " + Session["company"].ToString() +
" where enroll_number=@id";
        MySqlConnection dbcon = new MySqlConnection(con);
        MySqlCommand cdb = new MySqlCommand(t, dbcon);
        dbcon.Open();
        if (flag == 0)
        {
            t = "select * from " + Session["company"].ToString() +
where enroll_number=@id";
            cdb = new MySqlCommand(t, dbcon);
        }
        else if (flag == 1)
        {
    
```

```

        t = "select * from " +
Session["company_apti_cleared"].ToString() + " where
enroll_number=@id";
        cdb = new MySqlCommand(t, dbcon);
    }

else if (flag == 2)
{
    t = "select * from " +
Session["company_selected"].ToString() + " where
enroll_number=@id";
    cdb = new MySqlCommand(t, dbcon);
}
    cdb.Parameters.AddWithValue("@id",
int.Parse(enrollment_number.Text));
    MySqlDataReader r = cdb.ExecuteReader();
if (r.Read())
{
    // Setting the UI Elements //
    Name.Visible = true;
    na_me.Visible = true;
    Branch.Visible = true;
    b_ranch.Visible = true;
    Email.Visible = true;
    e_mail.Visible = true;
    contact.Visible = true;
    c_ontact.Visible = true;
    avg_gpa.Visible = true;
    Avg_gpa.Visible = true;
    na_me.Text = r.GetValue(1).ToString();
    b_ranch.Text = r.GetValue(2).ToString();
    c_ontact.Text = r.GetValue(3).ToString();
    e_mail.Text = r.GetValue(4).ToString();
    avg_gpa.Text = r.GetValue(5).ToString();
}

```

```

        }
    else
    {
        // Setting the UI Elements //
        ScriptManager.RegisterStartupScript(this.Page,
this.Page.GetType(), "err_msg", "alert('PLEASE ENTER VALID
ENROLLMENT NUMBER');", true);
        Name.Visible = false;
        na_me.Visible = false;
        Branch.Visible =false;
        b_ranch.Visible = false;
        Email.Visible = false;
        e_mail.Visible = false;
        contact.Visible = false;
        c_ontact.Visible = false;
        avg_gpa.Visible = false;
        Avg_gpa.Visible = false;
    }
    dbcon.Close();
}
catch (Exception)
{
    enrollment_number.Text = "";
    ScriptManager.RegisterStartupScript(this.Page,
this.Page.GetType(), "err_msg", "alert('PLEASE ENTER VALID
ENROLLMENT NUMBER');", true);
}

}

protected void reset_selection_Click(object sender, EventArgs e)
{
    if (flag == 0)

```

```

{
    // ReSetting the Aptitude cleared candidates list //
    string con = "server=localhost;user
    id=root;password=root;database=placement_drive";
    string status_update1 = "update " +
Session["company"].ToString() + " set application_status='Applied'
where enroll_number in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";

    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();

    MySqlCommand cdb1 = new
MySqlCommand(status_update1, dbcon);

    string status_update2 = "update " +
Session["company"].ToString() + " set application_status='Applied'
where enroll_number not in (Select enroll_number from " +
Session["company_apti_cleared"].ToString() + ")";

    MySqlCommand cdb2 = new
MySqlCommand(status_update2, dbcon);

    int r1 = cdb1.ExecuteNonQuery();
    int r2 = cdb2.ExecuteNonQuery();
    if (r1 != 0)
    {
        }

    else
    {
        }

    dbcon.Close();
    string t = "delete from " +
Session["company_apti_cleared"].ToString() + " ";
    dbcon.Open();

    MySqlCommand cdb = new MySqlCommand(t, dbcon);
    int r = cdb.ExecuteNonQuery();
}

```

```

if (r != 0)
{
}

}
else
{

}

dbcon.Close();
GridView1.Visible = true;
if (Session["company"].ToString() == "amazon_applied")
{
    GridView1.DataSourceID = "SqlDataSource2";
}
else if (Session["company"].ToString() == "google_applied")
{
    GridView1.DataSourceID = "google_applicant";

}
else
{
    GridView1.DataSourceID = "bosch_applicant";
}
else
{
    // ReSetting the Interview cleared candidates list //
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
    string status_update1 = "update " +
Session["company"].ToString() + " set application_status='Aptitude"

```

```

Cleared' where enroll_number in (Select enroll_number from " +
Session["company_appti_cleared"].ToString() + ")";
    MySqlCommand cdb1 = new
MySqlCommand(status_update1, dbcon);
    int r1 = cdb1.ExecuteNonQuery();
    if (r1 != 0)
    {
    }

    else
    {

    }
    dbcon.Close();
    string t = "delete from " +
Session["company_selected"].ToString() + " ";
    dbcon.Open();
    MySqlCommand cdb = new MySqlCommand(t, dbcon);
    int r = cdb.ExecuteNonQuery();
    if (r != 0)
    {
    }

    else
    {

    }
    dbcon.Close();
    GridView1.Visible = true;
    if (Session["company"].ToString() == "amazon_applied")
    {
        GridView1.DataSourceID = "applicant_interview_list";
    }
    else if (Session["company"].ToString() == "google_applied")

```

```

    {
        GridView1.DataSourceID = "google_interview";

    }
    else
    {
        GridView1.DataSourceID = "bosch_interview";
    }
}

}

protected void logout_Click(object sender, EventArgs e)
{
    // Setting the Session Elements //
    Session["userid"] = "";
    Session["company"] = "";
    Session["company_apti_cleared"] = "";
    Session["company_selected"] = "";
    Session["authentication"]="";
    Response.Redirect("home_page.aspx");

}
}
}

```

PAGE: apti_questions.aspx

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using MySql.Data.MySqlClient;
namespace WebApplication5
{
    public partial class apti_questions : System.Web.UI.Page
    {
        public static int marks;
        public static int question_count;
        public static string correct_answer;
        public static string given_answer;
        public static string qn;
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                question_box.Visible = false;
                option_list.Visible = false;
                question_no_indicator.Visible = false;
                start_submit_btn.Text = "START TEST";
                marks = 0;
                question_count = -1;
            }
        }
        protected void start_submit_btn_Click(object sender, EventArgs e)
```

```

start_submit_btn.Text = "Click to submit";
if (question_count == -1)
{
    question_count += 2 ;
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    string t = "select * from apti_questions order by rand() limit
1";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
    MySqlCommand cdb = new MySqlCommand(t, dbcon);
    MySqlDataReader r = cdb.ExecuteReader();
    if (r.Read())
    {
        // Setting the UI of the question paper according to the
        // question selected to be displayed //
        question_box.Visible = true;
        option_list.Visible = true;
        question_no_indicator.Visible = true;
        question_box.Text = r.GetValue(1).ToString();
        string qc = (question_count).ToString();
        string qci = string.Concat("Question ",qc, " of 5");
        question_no_indicator.Text = qci;
        option_list.Items.Add(new
ListItem(r.GetValue(2).ToString(), "1"));
        option_list.Items.Add(new
ListItem(r.GetValue(3).ToString(), "2"));
        option_list.Items.Add(new
ListItem(r.GetValue(4).ToString(), "3"));
        option_list.Items.Add(new
ListItem(r.GetValue(5).ToString(), "4"));
        correct_answer =(r.GetValue(6).ToString());
        qn = r.GetValue(0).ToString();
    }
}

```

```

        else
        {
            }

        dbcon.Close();
        string t1 = "insert into apti_question_posted
(question_number) select question_number from apti_questions where
question_number=@qn";
        dbcon.Open();
        MySqlCommand cdb1 = new MySqlCommand(t1, dbcon);
        cdb1.Parameters.AddWithValue("@qn", int.Parse(qn));
        int r1 = cdb1.ExecuteNonQuery();
        if (r1 != 0)
        {

        }
        else
        {

        }
        dbcon.Close();
    }
    else if (question_count >= 5)
    {
        // Submit button stored data in database and the test is
completed //
        string con = "server=localhost;user
id=root;password=root;database=placement_drive";
        string t = "update " + Session["company"].ToString() + " set
apti_marks=@marks where enroll_number=@id";
        MySqlConnection dbcon = new MySqlConnection(con);
        dbcon.Open();
        MySqlCommand cdb = new MySqlCommand(t, dbcon);
        cdb.Parameters.AddWithValue("@id", (Session["userid"]));
    }
}

```

```

        cdb.Parameters.AddWithValue("@marks", marks);
        int r = cdb.ExecuteNonQuery();
        if (r != 0)
        {
            }
        else
        {
            }
        string t1 = "delete from apti_question_posted";
        MySqlCommand cdb1 = new MySqlCommand(t1, dbcon);
        int r1 = cdb1.ExecuteNonQuery();
        if (r1 != 0)
        {
            }
        else
        {
            }
        dbcon.Close();
        Response.Redirect("student_login_first_page.aspx");
    }
    else
    {
        // Continue to send question unless required no. of them are
        displayed //
        if (option_list.SelectedValue != null)
        {
            given_answer = option_list.SelectedValue;
            if (given_answer == correct_answer)
            {
                marks += 1;

```

```

        }
    }

    question_count += 1;
    string con = "server=localhost;user
id=root;password=root;database=placement_drive";
    string t = "select * from apti_questions where
question_number not in (select question_number from
apti_question_posted) order by rand() limit 1";
    MySqlConnection dbcon = new MySqlConnection(con);
    dbcon.Open();
    MySqlCommand cdb = new MySqlCommand(t, dbcon);
    MySqlDataReader r = cdb.ExecuteReader();
    if (r.Read())
    {
        // Setting the Session Elements //
        question_box.Visible = true;
        option_list.Visible = true;
        question_no_indicator.Visible = true;
        question_box.Text = r.GetValue(1).ToString();
        string qc = (question_count).ToString();
        string qci = string.Concat("Question ", qc, " of 5");
        question_no_indicator.Text = qci;
        option_list.Items.Clear();
        option_list.Items.Add(new
ListItem(r.GetValue(2).ToString(), "1"));
        option_list.Items.Add(new
ListItem(r.GetValue(3).ToString(), "2"));
        option_list.Items.Add(new
ListItem(r.GetValue(4).ToString(), "3"));
        option_list.Items.Add(new
ListItem(r.GetValue(5).ToString(), "4"));
        correct_answer = (r.GetValue(6).ToString());
        qn = r.GetValue(0).ToString();
    }
}

```

```
        else
        {
            }
            dbcon.Close();
            string t1 = "insert into apti_question_posted
(question_number) select question_number from apti_questions where
question_number=@qn";
            dbcon.Open();
            MySqlCommand cdb1 = new MySqlCommand(t1, dbcon);
            cdb1.Parameters.AddWithValue("@qn", int.Parse(qn));
            int r1 = cdb1.ExecuteNonQuery();
            if (r1 != 0)
            {
                }
                else
                {
                    }
                    dbcon.Close();
                }
            }
        }
    }
```

Certificate

This is to certify that Mr GITESH JAIN of INSTITUTE OF ENGINEERING AND MANAGEMENT, registration number: 151040110256 of 2015-2016, has successfully completed a project on AUTOMATION OF CAMPUS RECRUITMENT PROCESS IN ENGINEERING COLLEGES using .NET Framework under the guidance of Mr NARENDRA KUMAR TIWARY.

NARENDRA KUMAR TIWARY
Globsyn Finishing School