

PROJECT

Placement Management System (Company Module)

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for the degree of 5 years Integrated MCA

Shrimad Rajchandra Institute of

Management and Computer Application

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CERTIFICATE

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Constitute College of
UKA TARSADIA
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1. Introduction of Project

1.1 System Outline

The primary motive of the placement management system is to ensure that the company gets a candidate who fits in their eligibility criteria and also to reduce the manual workload of the placement committee.

The users(i.e. Company, Student, Placement Committee) of this system are the students that need to be placed, the companies recruiting the students and an administrator (Placement Committee) to manage all the various tasks.

The companies will be invited for the recruitment process and the schedule of the interview rounds will be generated by the system. The results of the interviews will be displayed on the company's individual dashboard. The Administrator will be able to manage company details, interview schedules and monitor statistical reports(For e.g.:

Current Year Statistics of Each Company, Total Recruited Students by each company up till now, Previous Year Statistics of Each Company etc.) that are generated by the system.

Placement Management System (Company Module)

1.2 Purpose

The proposed system shall provide an interface for smooth and professional communication between company and student for the placement process.

1.3 Scope

The scope of the proposed system is limited to the company module which will assist the student and the feedback analysis module accordingly. The system shall be able to manage company details, generate schedules and attendance of the interview as well as generate statistical reports for analysis.

1.4 Tools and Technology

1.4.1 Front End

- HTML5
- Jquery-3.4.1
- JavaScript-5.1
- Bootstrap-4.0
- CSS3
- ASP.NET-4.6.1

1.4.2 Back End

- MySQL 5.7 and above

1.5 Functionalities

1.5.1 Expected Functionalities

❖ Admin:

- Maintain the company's profile.
- Maintain the company repository (It includes Company Basic Details, Company Offering Details).
- Configure the invitation for the companies.
- Categorize companies based on parameters matching with companies with student's parameters.
- Manage companies' short-listing criteria.
- Generating schedules.
- Maintain Interview Attendance.
- View feedback.
- Generating short-lists of company.
- Manage student round mark details.
- Manage company's visit

❖ Company:

- Registration.
- Login.
- Update profile.
- Request shortlisted students according to criteria.
- View shortlist student details.
- Post Results.

1.5.2 Exciting Functionalities

- Maintaining N-years records of the company's details.
- Generating Schedule of the interview while prioritizing companies according to higher stipend and package amount.

1.6 User Characteristics

1.6.1 Administrator:

Responsible for inviting companies, registering companies, managing company details, and their short-listing criteria, managing interview attendance, generating short-lists and schedules of the interviews and configuring various alerts.

- ***Managing Company Details:*** - Procuring all the details of the company and updating/deleting according to the requirement.
- ***Managing Companies Short-listing Criteria:*** -Various short-listing criteria provided by the company regarding the student's eligibility to appear for the interview.
- ***Configuring Invites:*** -Sending invitations to the companies to visit the campus for placement of the students.
- ***Categorizing Companies:*** - Bifurcating the companies according to their market reputation and earlier relationship with the institute.
- ***Generating Short-list:***-Listing of the companies according to their stipend, package, tenure, technology, and locality, etc.
- ***Generating Schedules:***- Deciding the venue and date/timing for the interview to be held between the company and the students in a systematic manner.
- ***Managing Interview Attendance:***- Attendance of each student attending the interview of particular company.
- ***Configure Alerts:***- Notifying the companies regarding the schedule of the interview to be held.
- ***Procuring Feedbacks:***-Gathering feedback from the companies regarding the hospitality provided to them and also feedbacks regarding the student's performance and skill level.
- ***Managing Student Rounds Details:***-Admin can manage interview round mark details.

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- **Managing Company Visit:** - Admin can manage company's institute visit details.

1.6.2 Company:

Responsible for inviting companies, registering companies, managing company details, and their short-listing criteria, generating short-lists and schedules of the interviews and configuring various alerts.

- **Registration:-** Company needs to provide all its basic details and also various eligibility criteria for the students. For e.g.: Company Name, Company Email ID, Selection Mode, Stipend, Package, Tenure etc.
- **Login:-** Company needs to provide their valid authentication credentials to access their account.
- **Updating Profile:-** Company can update their account details according to their needs (Mainly their Stipend and Package amount details).
- **Request shortlisted students according to criteria:-** Company can request the administrator for the list of shortlisted students that are fitting eligible in criteria.
- **Short-list Students:** - Sending the finalized list of students to the administrator, who are selected for the placement.
- **View Student Details:** - Displaying the details of the student, requested by the company.
- **Post Result:** - Status (Selected/Rejected) of the student should be displayed on the individual student's profile.

Placement Management System (Company Module)

1.7 Data Dictionary, integrity constraints

1.7.1 Table Name: - tbl_Company_Basic_Details

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|-----------|------|---------------------------------------|----------------------|---|---------------------------|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, AUTO_INCREMENT | 101 | Represents the unique id of Company | |
| <u>Email_Id</u> | varchar | 320 | PRIMARY KEY, NOT NULL, AUTO_INCREMENT | microsoft@g mail.com | Represents company's Email Id | |
| Company_Name | varchar | 50 | NOT NULL | Microsoft | Represents the company name | |
| Contact_Number | varchar | 14 | NOT NULL | +918140048 489 | Represents Company Contact Number | |
| Company_State | varchar | 15 | NOT NULL | Gujarat | Represents company's location situated in which State | |
| Company_City | varchar | 25 | NOT NULL | Surat | Represents company's location situated in which City | |

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|------------------------------|---------|-----|----------|---|---|--|
| Company_Address | varchar | 150 | NOT NULL | Rami Park, Adajan, Surat | Represents location of the company | |
| Company_Representative1_Name | varchar | 50 | NOT NULL | Mr. Siddharth Bhatt | Represents Company's Representative (HR) | |
| Company_Representative2_Name | varchar | 50 | | Mr. Meet Shah | Represents Company's Representative (HR Assistant) | |
| Password | varchar | 16 | NOT NULL | Abc@123 | Company password must contain Alphanumeric & Special character | |
| Company_Website | varchar | 30 | | http://suratinfotech.com | Company website link | |
| Company_Logo | image | | | - | Display company logo | |

1.7.2 Table Name:- tbl_Company_Offerings

| Field Name | Data Type | Size | Constrai nts | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|--------------|------|--|-----------------------------|---|---|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Compa ny_Basic_ Details(Co mpany_Id) |
| Selection_Mode | tinyin t | | NOT NULL | 1=On Compus 0=Off Compus | Represents the mode of placement company provides | |

Placement Management System (Company Module)

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|----------------------------|---------|--|----------|------------|--|--|
| Stipend | float | | NOT NULL | 10000.00 | Represents how much stipend the company will provide | |
| Package | float | | NOT NULL | 1000000.00 | Represents how many packages the company will provide | |
| Tenure | tinyint | | | 2 | Represents how much Tenure duration the company will provide | |
| Estimate_Arrival_Date_From | date | | NOT NULL | 2019-09-17 | Estimate Arrival Date of Company From | |
| Estimate_Arrival_Date_To | date | | NOT NULL | 2019-09-17 | Estimate Arrival Date of Company To | |
| Estimate_Required_Student | tinyint | | NOT NULL | | Represent how many Student required (Approx) | |
| Company_Total_Rounds | int | | NOT NULL | - | Represents Company's Total Rounds | |
| Last_Updated_Year | int | | NOT NULL | 2020 | Represents Company Last Updated year | |

Placement Management System (Company Module)

1.7.3 Table Name:- tbl_Technology

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|----------------------|------------------|-------------|---------------------------------------|---------------------------|---|----------------------------------|
| <u>Technology_Id</u> | int | | PRIMARY KEY, NOT NULL, AUTO_INCREMENT | 101 | Represents the unique id for Technology | |
| Technology_Name | varchar | 50 | NOT NULL | ASP.NET | Represents the Technology Name | |

1.7.4 Table Name :- tbl_Company_Required_Technology

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|----------------------|------------------|-------------|---------------------------------------|---------------------------|---|--|
| <u>Technology_Id</u> | int | | PRIMARY KEY, NOT NULL, AUTO_INCREMENT | 101 | Represents the unique id for Technology | tbl_Company_Basic_Details(Technology_Id) |
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details(Company_Id) |
| Updation_Time | datetime | | NOT NULL | 19/02/2019 | Represents Updation Time | |

Placement Management System (Company Module)

1.7.5 Table Name :- tbl_Admin_Login

| Field Name | Data Type | Size | Constraint s | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|------------------|-------------|------------------------|---------------------------|--|----------------------------------|
| <u>Admin_Id</u> | int | | PRIMARY KEY, NOT NULL, | 101 | Represents the unique id of Admin | |
| Admin_Name | varchar | 50 | NOT NULL | Ms. Poonam Godhwani | Represents the Name of Admin | |
| Email_Id | varchar | 320 | NOT NULL | Poonam.godhwani@utu.ac.in | Represents the Admin Email Id | |
| Password | varchar | 16 | NOT NULL | Abc@123 | Admin password must contain Alphanumeric & Special character | |

1.7.6 Table Name :- tbl_Interview_Attendance

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|------------------|-------------|-----------------------------------|---------------------------|--------------------------------------|---------------------------------------|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details(Company_Id) |
| <u>Student_Id</u> | bigint | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 201706100610037 | Represents the unique id for Student | tbl_Student_Basic_Details(Student_Id) |
| Status | varchar | 8 | NOT NULL | Present | Represents whether the | |

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|--|--|--|--|--|---|--|
| | | | | | student is present for interview or not | |
|--|--|--|--|--|---|--|

1.7.7 Table Name:- tbl_Shortlist_Criteria

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|------------------------------|-----------|------|------------------------------------|--------------------|--|---------------------------------------|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 101 | Represents the unique id of the Company | tbl_Company_Basic_Details(Company Id) |
| Under_Graduation_Degree_Type | varchar | 50 | NOT NULL | BCA | Represents the Under-Graduation degree type | |
| Post_Graduation_Degree_Type | varchar | 50 | NOT NULL | MCA | Represents the Post-Graduation degree type | |
| SSC_Percentage | float | | NOT NULL | 95.00 | Represents SSC Percentage of Student required | |
| HSC_Percentage | float | | NOT NULL | 95.00 | Represents HSC Percentage of Student required | |
| SGPA | float | | NOT NULL | 9.65 | Represent Cummulative SGPA of Student required | |
| CGPA | float | | NOT NULL | 9.65 | Represent OverAll Cummulative | |

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|-----------------------|---------|----|----------|---------|---|--|
| | | | | | CGPA of Student required | |
| Additional_Technology | varchar | 50 | | ASP.NET | Represents Additional Technology | |
| Allow_KT | tinyint | | NOT NULL | 1 | Represents Allow KT Accept by the Company | |

1.7.8 Table Name:- **tbl_Generate_Schedule**

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|--------------------|-----------|------|---------------------------------------|----------------------|--|---------------------------------------|
| <u>Schedule_Id</u> | int | | PRIMARY KEY, NOT NULL, AUTO_INCREMENT | 501 | Represent 's the unique id for schedule | |
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details(Company_Id) |
| <u>Student_Id</u> | bigint | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 201706100610037 | Represents the unique id for Student | tbl_Student_Basic_Details(Student_Id) |
| Interview_Mode | varchar | 20 | NOT NULL | On-Campus/Off-Campus | Represents the mode of the interview to be conducted | |

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|-------------------|----------|-----|----------|---------------------------------|--|--|
| Interview_Venue | varchar | max | NOT NULL | Shrimad Hall, SRIMCA, UTU | Represents the venue for the interview to be conducted | |
| Arrival_Time | datetime | | NOT NULL | 2019-08-12 08:30:00 | Represents Arrival timing of the company | |
| Interview_Details | varchar | max | | - | Represents Interview Details | |

1.7.9 Table Name :- **tbl_Interview_Results**

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|-----------|------|--------------------------------------|-------------------------|--|---------------------------------------|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details(Company_Id) |
| <u>Student_Id</u> | bigint | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 20170 61006 10037 | Represents the unique id for Student | tbl_Student_Basic_Details(Student_Id) |
| Status | varchar | 8 | NOT NULL | Select | Represents whether the student is selected or rejected | |

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|---------------|---------|--|--|------------|--|--|
| Final_Stipend | float | | | 10000 | Represents how much final stipend the company will provide | |
| Final_Package | float | | | 80000 0 | Represents how much final package the company will provide | |
| Final_Tenure | tinyint | | | 10000 | Represents how much final tenure duration the company will provide | |

1.7.10 Table Name :- tbl_Invitation

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------------|-----------|------|-----------------------|------------------------------|--|---------------------------|
| <u>Company_Email_Id</u> | varchar | 320 | PRIMARY KEY, NOT NULL | katariayash 007@gmail.com | Represents the unique Email id for Company | |
| Company_Name | varchar | 50 | NOT NULL | Microsoft | Represents the Company Name | |
| Status | tinyint | | NOT NULL | 1=Accepted, 2=Denied | Represents Company's Interest | |
| | | | | | | |

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1.7.11 Table Name :- tbl_Company_Past_Records

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------------|------------------|-------------|------------------------------------|---------------------------|--|--|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL, FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details (Company_Id) |
| <u>Updation_Year</u> | int | | PRIMARY KEY, NOT NULL | 2020 | Represents the CompanyRecord's Updation Year | |
| Highest_Stipend | float | | NOT NULL | 10000.00 | Represents how much stipend the company provided | |
| Highest_Package | float | | NOT NULL | 1000000.00 | Represents how much package amount the company provided | |
| Lowest_Tenure | tinyint | | NOT NULL | 1=Accepted, 2=Denied | Represents how much Tenure duration the company provided | |
| No_Of_Recruited_Stuents | int | | NOT NULL | 20 | Represents how many students were recruited | |

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1.7.12 Table Name:- tbl_Company_BlackList_Status

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|--------------------------|------------------|-------------|--|---------------------------|---|---|
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 101 | Represents the unique id of Company | Company_ Basic_Details (Company_Id) |
| Company_BlackList_Status | varchar | 3 | NOT NULL | No | Represents the Company Blacklist Status | |

1.7.13 Table Name:- tbl_Student_Round_Details

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|------------------|-------------|--|---------------------------|---|---|
| <u>Round_Id</u> | int | | PRIMARY KEY, NOT NULL | 101 | Represents the unique id of Round | |
| <u>Student_Id</u> | bigint | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 201706100610037 | Represents the unique id for Student | tbl_Student _Basic_Details (Student_Id) |
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Ba sic_Details (Company_Id) |
| Round1_Marks | float | | | 60.00 | Represents Round 1 Mark | |

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| | | | | | | |
|---------------|---------|----|--|-----------|--------------------------------|--|
| Round1_Status | varchar | 20 | | Completed | Represents Round 1 Mark Status | |
| Round2_Marks | float | | | 60.00 | Represents Round 2 Mark | |
| Round2_Status | varchar | 20 | | Completed | Represents Round 2 Mark Status | |
| Round3_Marks | float | | | 60.00 | Represents Round 3 Mark | |
| Round3_Status | varchar | 20 | | Completed | Represents Round 3 Mark Status | |
| Round4_Marks | float | | | 60.00 | Represents Round 4 Mark | |
| Round4_Status | varchar | 20 | | Completed | Represents Round 4 Mark Status | |

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1.7.14 Table Name :- tbl_Company_Alerts

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|-------------------|------------------|-------------|--|--|--|--|
| <u>Alert_Id</u> | int | | PRIMARY KEY, NOT NULL | 101 | Represents the unique id of alert | |
| <u>Company_Id</u> | int | | PRIMARY KEY, NOT NULL,FOREIGN KEY | 101 | Represents the unique id of Company | tbl_Company_Basic_Details (Company_Id) |
| Company_Email_Id | varchar | 320 | PRIMARY KEY, NOT NULL | katariayash 007@gmail.com | Represents the unique Email id for Company | |
| Subject | varchar | 100 | NOT NULL | Placement Management System Alert | Represents Subject of Alert | |
| Message | varchar | MAX | NOT NULL | Hello Alert for confirmation of Registration in the Placement Management System of Srimca. | Represents Message of Alert | |
| Alert_Time | datetime | | NOT NULL | 2/6/2020 10:49:26 AM | Represents Alert Time of Alert | |

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1.7.15 tbl_Student_Basic_Details

| Field Name | Data Type | Size | Constraints | Valid input values | Description of the field |
|----------------------|------------------|-------------|-----------------------|---------------------------|---|
| Student_Id | bigint | - | PRIMARY KEY, NOT NULL | 201706100610037 | This field represents the unique ID of an Student |
| Student_Name | varchar | 50 | NOT NULL | Yash Himmat Kataria | This field represents student full name |
| Student_Pincode | int | - | NOT NULL | 394325 | This field represents pincode of student |
| Student_House_Number | varchar | 15 | NOT NULL | A-104 | This field represents House Number of student |
| Student_Society_Name | varchar | 50 | NOT NULL | Omsai Society | This field represents Society name of student |
| Student_Street_Name | varchar | 50 | NOT NULL | Kamrej Road | This field represents Street Name of student |
| Student_Locality | varchar | 30 | NOT NULL | kamrej | This field |

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| | | | | | |
|-------------------|---------|-----|----------|--|---|
| | | | | | represents Student of student |
| Student_city | varchar | 25 | NOT NULL | Surat | This field represent city of student |
| Student_State | varchar | 15 | NOT NULL | Gujrat | This field represent state of student |
| Student_BirthDate | date | - | NOT NULL | 25-11-1999 | This field represent of birthday of student |
| Student_Gender | varchar | 6 | NOT NULL | Male | This field represent of gender of student |
| Student_Phone_No | varchar | 14 | NOT NULL | +91 9727885713 | This field represent the student phone number |
| Student_Email_Id | varchar | 320 | | kataraiyash007@gmail.com | This firld represent the email id of a student |
| Student_UG_Course | varchar | 9 | NOT NULL | UG Course | This field represent course of student |

Placement Management System (Company Module)

| | | | | | |
|-------------------|---------|----|----------|-----------|---|
| Student_PG_Course | varchar | 9 | NOT NULL | PG Course | This field represent course of student |
| Student_Password | varchar | 16 | NOT NULL | Kunj@2511 | This field represent student password |
| Student_Photo | image | - | Not null | - | This field represents the photo of the student. |
| Year | varchar | 5 | NOT NULL | 2020 | This field represents Year of Register of student |

1.7.16tbl_Company_Visit

| Field Name | Data Type | Size | Constraints | Valid input values | Description Of the field | Linkage with other tables |
|--------------|--------------|------|-----------------------|---|-----------------------------------|---------------------------|
| Visit_Id | int | | PRIMARY KEY, NOT NULL | 101 | Represents the unique id of visit | |
| Visit_Team | varchar(max) | | NOT NULL | Ms. Poonam Godhwani, Ms. Jenisha Tailor | Represents the team name | |
| Company_Name | varchar | 50 | NOT NULL | Pixelation | Represents Company | |

Placement Management System (Company Module)

| | | | | | Name | |
|---------------------|----------|-----|----------|----------------------------|---|--|
| Date_Of_Visit | datetime | | NOT NULL | 17-09-2020 | Represents Date of Visit | |
| Person_Interacted | varchar | 50 | NOT NULL | Mr. Jayesh Kumar | Representative Name | |
| Contact_No | varchar | 13 | NOT NULL | 9512136000 | Represents the unique contact no | |
| Email_Id | varchar | 320 | NOT NULL | katariayash 007@gmail.com | Represents the unique Email id for Company | |
| Experience | varchar | MAX | NOT NULL | Good Experience | Represents experience of visit | |
| Findings | varchar | MAX | NOT NULL | Recommended for placement. | Represents findings of visit | |
| Remarks | varchar | MAX | NOT NULL | GOOD | Represents the remarks for the company | |
| Next_Year_Recommend | varchar | 5 | NOT NULL | YES/NO | Represents that company is recommended for placement or not | |

Placement Management System (Company Module)

1.8 Summary

| No. | Expected Functionalities | No | Exciting Functionalities |
|------------------------------|------------------------------|----|---|
| 1. | Log in with User Credentials | 1. | Maintaining N-years records |
| 2. | Forgot Password | 2. | Attendance management of students per interview |
| 3. | Company Registration | 3. | Generating Schedule of the interview. |
| 4. | Invitation Template | | |
| 5. | Profile Management | | |
| 6. | Configure Alert | | |
| 7. | BlackList Configuration | | |
| 8. | Interview Rounds Marks | | |
| 9. | Statistical Reports | | |
| 10. | Shortlisting Companies | | |
| 11. | Company Update Profile | | |
| 12. | Change Password | | |
| 13. | Display Interested Students | | |
| 14. | View Schedule Date & Venue | | |
| 15. | Post Results | | |
| 16. | Selected Students | | |
| 17. | Email Alerts | | |
| 18 | Company Visit | | |
| Count | 18 | | 3 |
| Total Functionalities | 21 | | |

Placement Management System (Company Module)

2. GUI Design

2.1 Traversals

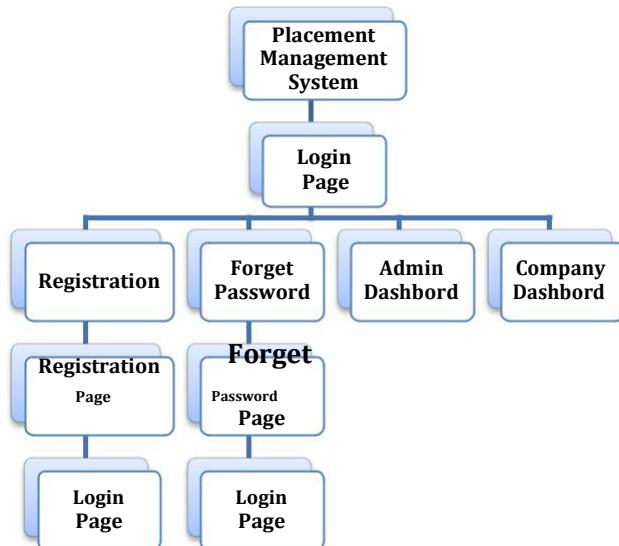


Figure 2.1.1: Placement Management System

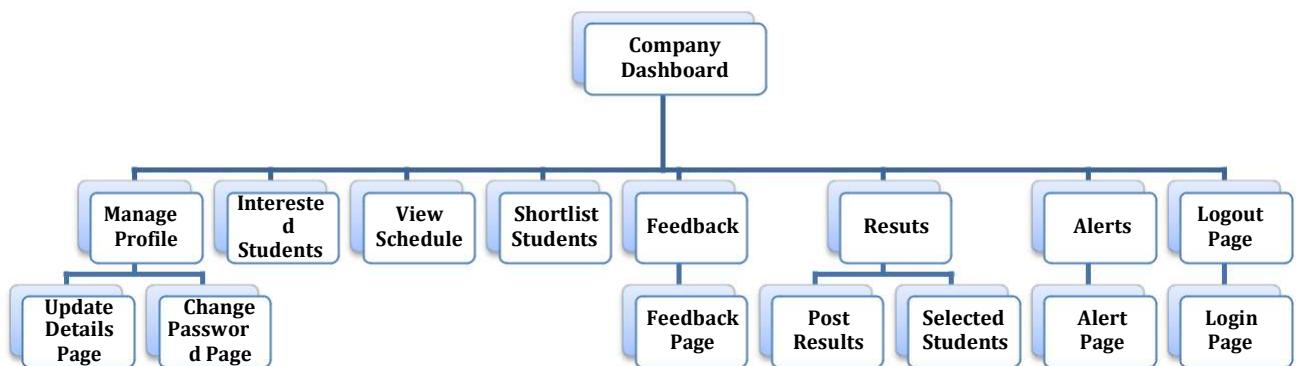


Figure 2.1.2: Company Dashboard

Placement Management System (Company Module)

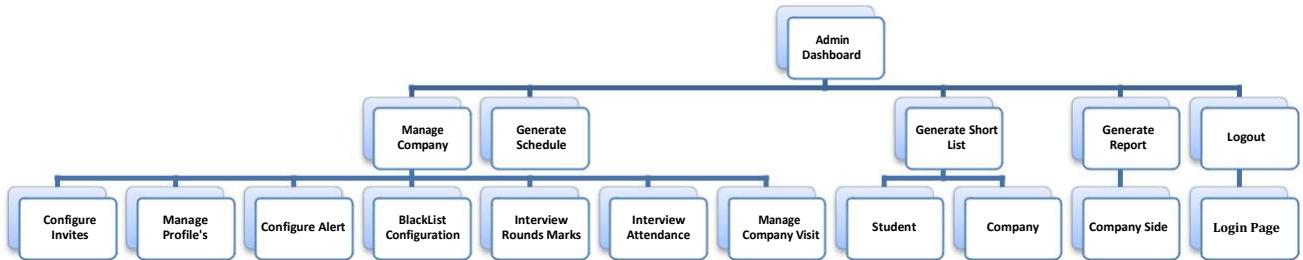


Figure 2.1.3: Admin Dashboard

Placement Management System (Company Module)

2.2 Screenshots

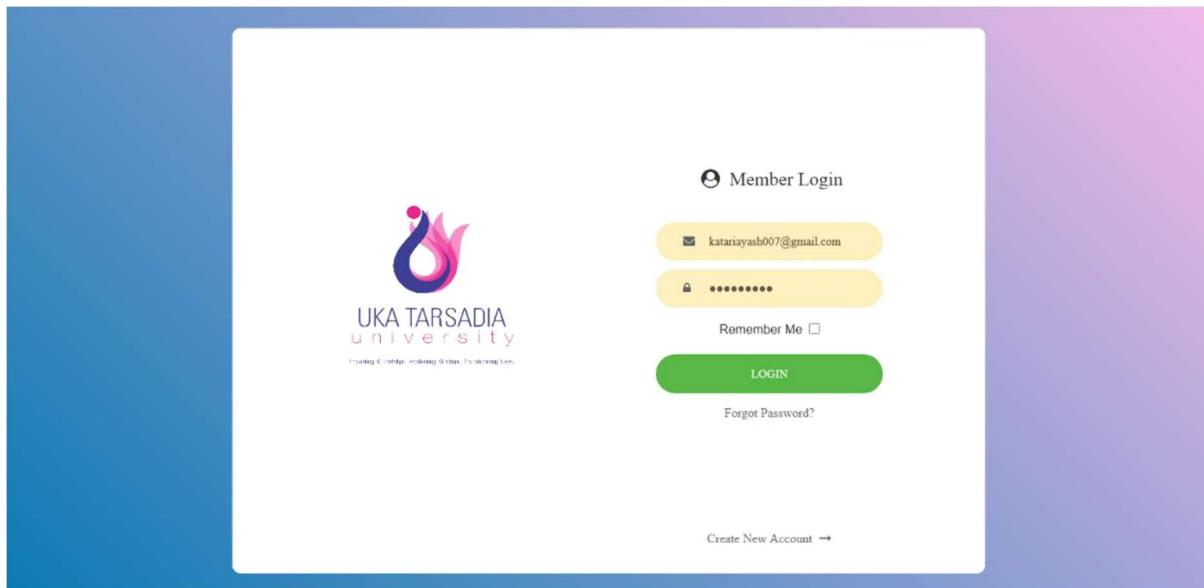


Figure 2.2.1: Login Page

| | |
|-----------------------------|--|
| Description | Login Page for the companies, Students and Admin to enter the required authentication credentials and access their respective profiles. |
| Data From | tbl_Company_Offerings, tbl_Company_Basic_Details, tbl_Admin_Login |
| Data To | Admin, Company, Students. |
| Critical Validations | <p>I. Email_RegularExpression="[^a-zA-Z0-9!#\$%^&*+=?^`{ }~-]+(?:\.[a-zA-Z0-9!#\$%^&*+=?^`{ }~-]+)*@(?:[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?\.)+[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?"</p> <p>II. The password should be 8-16 characters long with at least 1 special character, 1 numeric character, 1 uppercase letter. RegularExpression="^(?=.*[a-zA-Z])(?=.*[0-9])(?=.*[\$@!%*?&])[A-Za-z\d@\$!%*?&]{8,16}\$"</p> |

Placement Management System (Company Module)

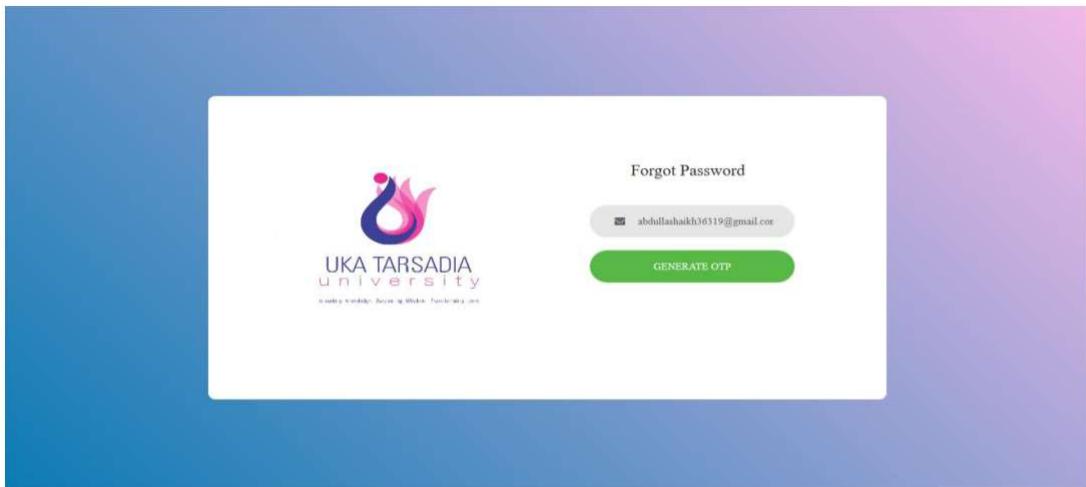


Figure 2.2.2: Password Page

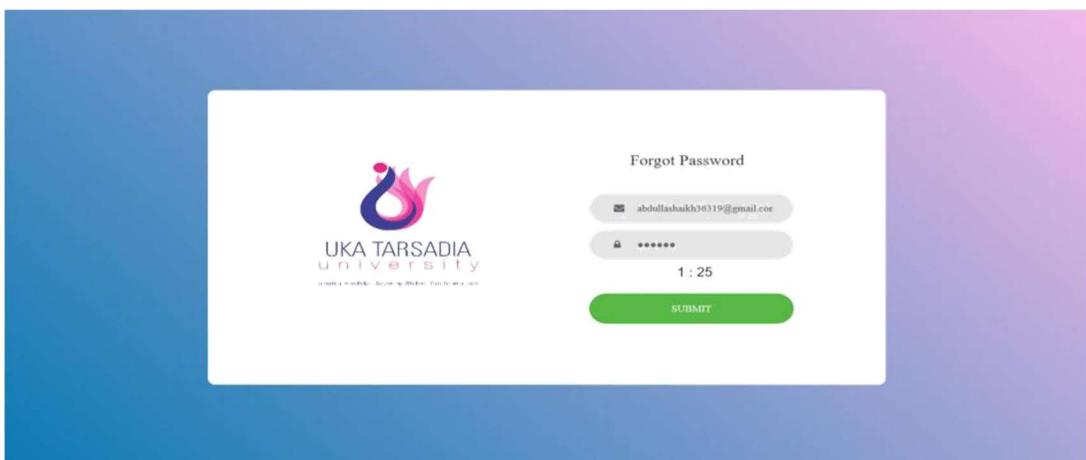


Figure 2.2.3: Verify OTP Page

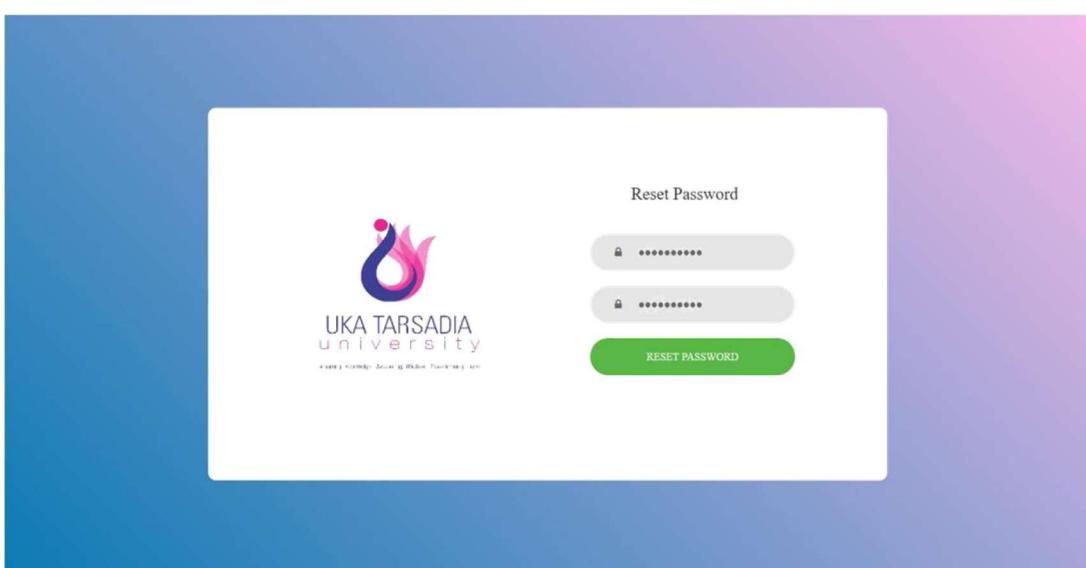


Figure 2.2.4: Reset Password Page

Placement Management System (Company Module)

| | |
|-----------------------------|---|
| Description | Forgot Password for Company as well as Admin. |
| Data From | tbl_Admin_login,tbl_Company_Basic_Details, |
| Data To | Admin,Company. |
| Critical Validations | <p>I. Email_ReguralExpression=" [a-zA-Z0-9]!#%&'^+/?^`{ }~-]+(?:\.[a-zA-Z0-9]!#%&'^+/?^`{ }~-]+)*@[?:[a-zA-Z](!?:[a-zA-Z0-9-]*[a-zA-Z0-9])?\.\.)+[a-zA-Z](!?:[a-zA-Z0-9-]*[a-zA-Z0-9])?"</p> <p>II. The password should be 8-16 characters long with at least 1 special character, 1 numeric character, 1 uppercase letter. ReguralExpression="^(?=.*[a-zA-Z])(?=.*[A-Z])(?=.*\d)(?=.*[@\$!%*?&])[A-Za-z\d@\$!%*?&]{8,16}\$"</p> |

Placement Management System (Company Module)



Registration Form

PicsArt

pics@gmail.com

8200828540

State : Gujarat

City : Surat

Maliwad

Pulkit

Yash

www.picsart.in

Website Logo a.jpeg

SUBMIT

Figure 2.2.5: Company Registration Page

| | |
|-----------------------------|--|
| Description | Company can Register itself by providing their basic details. |
| Data From | tbl_Company_Basic_Details |
| Data To | Company |
| Critical Validations | <ol style="list-style-type: none"> Email_RegularExpression="[^a-zA-Z0-9!#\$%&'*+/?^`{ }~-]+(?:\.[a-zA-Z0-9!#\$%&'*+/?^`{ }~-]+)*@[?:[a-zA-Z0-9](?:[a-zA-Z0-9-][a-zA-Z0-9])?\.\.)+[a-zA-Z0-9](?:[a-zA-Z0-9-][a-zA-Z0-9])?" The format of Mobile Number must be of Indian.^[0-9]{10}] URL_RegularExpression="^(http:// https:// http:// https://)[a-zA-Z0-9]+([-.][a-zA-Z0-9]{1}[a-zA-Z0-9]+)*\.[a-zA-Z]{2,5}(:[0-9]{1,5})?(\\.*?)" |

Placement Management System (Company Module)

The screenshot shows a web-based application interface for managing company placements. On the left, a dark sidebar menu lists navigation options: Dashboard, Manage Company (selected), Manage Student, Generate Schedule, Generate Shortlist, Report Analysis, About Us, Contact Us, and Logout. The main content area has a yellow background and displays a welcome message from the administrator, details about the MCA programme, and information about the placement drive. It includes fields for 'Enter Batches Count' and 'Enter Passed Students'. A 'SEND INVITE' button is visible at the bottom right of the main content area.

Dear Sir/Ma'am,
Greetings from Shrimad Rajchandra Institute of Management and Computer Applications(SRIMCA),UTU. We would like to take this opportunity to invite your esteemed organization for being empanelled for our campus placement activities.

Invitation for Campus Placement Process

MCA programme is running since 2002 at SRIMCA. More than students from batches have successfully completed their Post Graduation. Our institute is a constitute institute of Uka Tarsadia University.

Our college has an active Placement Cell which looks into the placement for its students. The objective of the college Placement Cell is to help students identify their career goals and provide an edge into the present day competitive job market. The scope of work of Placement Cell extends from organizing workshops to providing internships to students in various organizations during summer break and preparing students for the final placements In the past, the placement cell has conducted similar events in which several companies participated and recruited bright talents. We will be extremely obliged if you could be a part of our Endeavour of making the untapped talent shine.

The M.C.A Course covers Web Development, Mobile Application Development, Internet Of Things, Big Data Analytics, Game Development, Database Management, Software Engineering and Testing, Open Source Technologies etc. Students are well acquaintance will tools/ platforms like Android, ASP.NET, C Language, C#, C++, DBMS, JAVA, JSP, PHP, Python, RDBMS, Servlet.

We invite you for a Campus Placement Drive for final year students. We are keen to organize a Campus Placement Drive during June to October at our institute for the Final Year students. These students will be appearing in final year examination in . We will be providing you the supporting infrastructure facilities for conducting Tests, Interview, Presentation, and Group Discussion.

Looking forward to your participation in the recruitment drive. We would appreciate your kind consent to participate.

Thank You
Shrimad Rajchandra Institute of Management and Computer Application
Maliba Campus,Gopal Vidyanagar,
Bardoli-Mahuva Road, TARSADI,
Dist: Surat - 394350,
Gujarat (INDIA)
Contact Us : 91-2625-255389
Email : director.srimca@utu.ac.in

SEND INVITE

Figure 2.2.6: Admin Configure Invites

| | |
|-----------------------------|---|
| Description | Sending Invitation to the Company for Placement of Students. |
| Data From | tbl_Technology, tbl_Invitation |
| Data To | Admin |
| Critical Validations | <p>1.Batches count should be only in number.</p> <pre>[int.TryParse(txt_Batches_Count.Text, out result1) &&int.TryParse(txt_Batches_Count.Text, out result2)]</pre> |

Placement Management System (Company Module)

The screenshot shows the Company Module of the Placement Management System. On the left is a dark sidebar with a user icon labeled 'ADMINISTRATOR'. Below it are navigation links: Dashboard, Manage Company (highlighted in blue), Manage Student, Generate Schedule, Generate Shortlist, Report Analysis, About Us, Contact Us, and Logout.

The main area displays five company profiles in cards:

- Bhagwate Incorp**: Company Name: Bhagwate Incorp, Email Id: pulkit.bhagwate02@gmail.com, Contact No: 9898826290. Buttons: Update Profile, Delete Profile.
- Abdulla Incorp**: Company Name: Abdulla Incorp, Email Id: abdullahshaikh36319@gmail.com, Contact No: 8140048489. Buttons: Update Profile, Delete Profile.
- Praneet Infotech**: Company Name: Praneet Infotech, Email Id: kaisarepraneet@gmail.com, Contact No: 9265055523. Buttons: Update Profile, Delete Profile.
- Pixelation**: Company Name: Pixelation, Email Id: katariayash007@gmail.com, Contact No: 9512136600. Buttons: Update Profile, Delete Profile.
- Megh Infotech**: Company Name: Megh Infotech, Email Id: meghlath09@gmail.com, Contact No: 7359707855. Buttons: Update Profile, Delete Profile.
- Kunj Infotech**: Company Name: Kunj Infotech, Email Id: patelkunj512@gmail.com, Contact No: 9898100471. Buttons: Update Profile, Delete Profile.

Figure 1.2.7: Manage Company Record

| | |
|-----------------------------|--|
| Description | Admin can update and delete particular company profile |
| Data From | tbl_Company_Basic_Details |
| Data To | - |
| Critical Validations | - |

Placement Management System (Company Module)



Company Basic Details
Company Offering Details

Company Name
Bhagwate Incorp

Company Email Id
pulkit.bhagwate02@gmail.com

Contact No.
9898826290

State : Maharashtra

City : Mumbai

Address
Kadodara

1st Representative Name
Pulkit Bhagwate

2nd Representative Name
Yash Kataria

Website Name
www.google.com

Website Logo
 No file selected.

Is Company In Blacklist? YES NO

Update Details
Delete Details

Figure 2.2.8: Manage Profile

| | |
|-----------------------------|---|
| Description | Admin can update and delete company profile. |
| Data From | tbl_Company_Basic_Details |
| Data To | Admin |
| Critical Validations | <p>1. Email_ReguralExpression="^([a-zA-Z0-9!#%&'*/=?^`{ }~-]+(?:\.[a-zA-Z0-9!#%&'*/=?^`{ }~-]+)*)@(?:[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?\.)+[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?"</p> <p>2. The format of Mobile Number must be of Indian.^[0-9]{10}]</p> <p>3. URL_ReguralExpression="^(http:// https:// http:// https://)[a-zA-Z0-9+([.-\.\!]{1}[a-zA-Z0-9]+)*\.[a-zA-Z]{2,5}(:[0-9]{1,5})?(\\.*))?\$"</p> |

Placement Management System (Company Module)

Required Technologies

Android ASP.NET C Language C#
C++ DBMS JAVA JSP
PHP Python RDBMS Servlet

Estimate Required Students
150

Total Number of Rounds To Conduct :

Under Graduation Dergee Type :

Post Graduation Dergee Type :

SSC Percentage
95

HSC Percentage
90

4th Semester SCPA
8

Current CGPA
9

Allow ATKT Upto

Additional Technology

Update Details Delete Details

Figure 2.2.9: Manage Profile

| | |
|-----------------------------|--|
| Description | Admin can update and delete company profile. |
| Data From | tbl_Company_Basic_Details, tbl_Company_Basic_Details, tbl_Company_Offerings, tbl_Company_Blacklist_Status, tbl_Shortlist_Criteria, tbl_Technology |
| Data To | Admin |
| Critical Validations | <ol style="list-style-type: none"> The range between Estimated Arrival Date From and Estimated Arrival Date To must be of 14 days The SGPA and CGPA must be in proper format. Regular Expression = "^(?:[1-9] 0[1-9] 10)((\.\d{1,2})?*)\$" |

Placement Management System (Company Module)

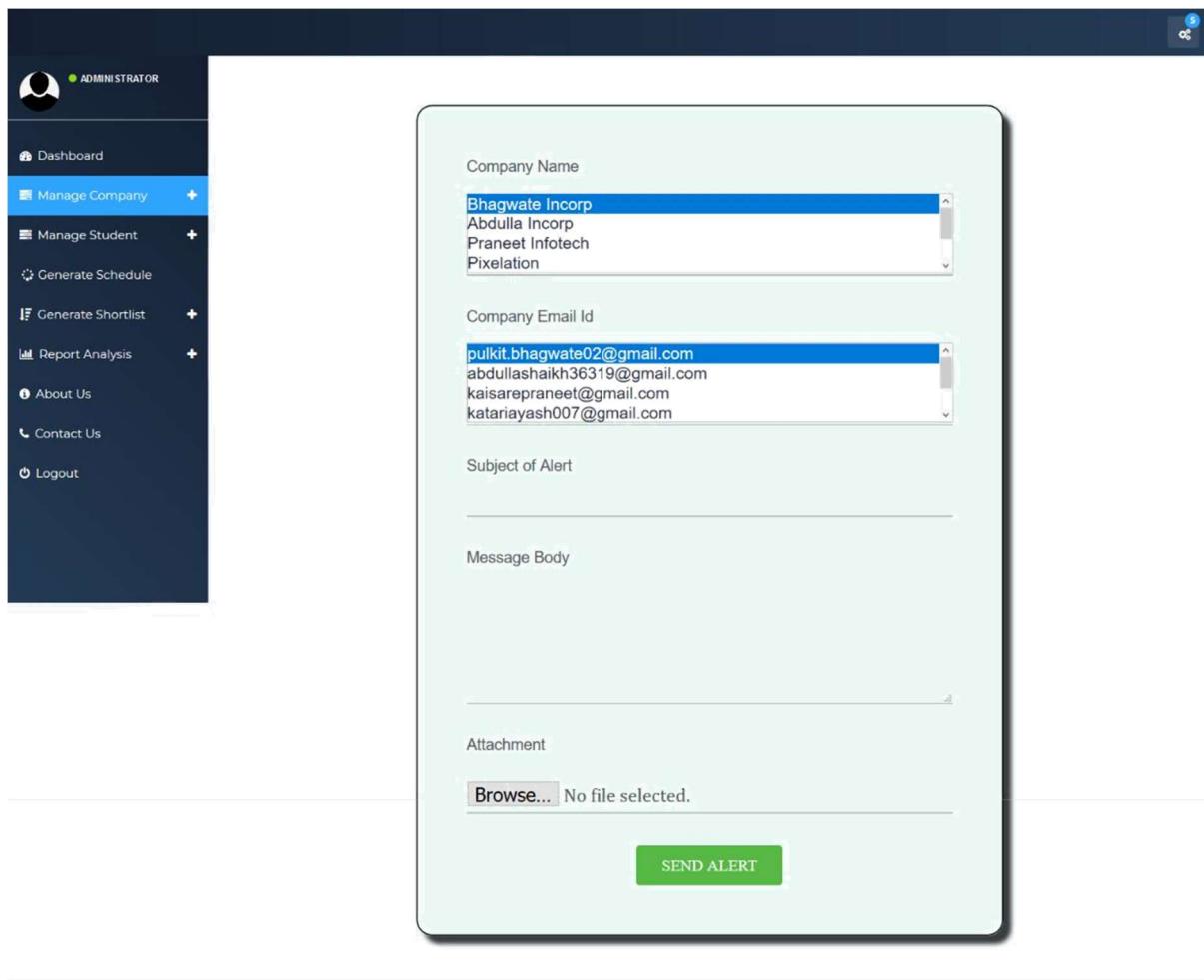


Figure 2.2.10: Configure Alert

| | |
|-----------------------------|--|
| Description | The Alert is send to the Company |
| Data From | tbl_Company_Basic_Details,tbl_Company_Alerts |
| Data To | Admin |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows a web-based application interface for managing companies. On the left, there is a dark sidebar menu with the following items:

- Administrator icon
- Dashboard
- Manage Company (selected)
- Manage Student
- Generate Schedule
- Generate Shortlist
- Report Analysis
- About Us
- Contact Us
- Logout

The main content area displays a table titled "BlackList Configuration". The table has three columns: "Company Id", "Company Name", and "Choose Yes/No". The data in the table is as follows:

| Company Id | Company Name | Choose Yes/No |
|------------|------------------|---|
| 108 | Bhagwate Incorp | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| 109 | Abdulla Incorp | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| 110 | Praneet Infotech | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| 112 | Pixelation | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| 115 | Megh Infotech | <input type="radio"/> Yes <input checked="" type="radio"/> No |

A green "SUBMIT" button is located at the bottom of the table.

Figure 2.2.11: BlackList Configuration

| | |
|-----------------------------|--|
| Description | The Admin should select the Blacklisted Company. |
| Data From | tbl_Company_Blacklist_Status |
| Data To | Admins |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows a web-based application interface for managing placement interviews. On the left, a dark sidebar menu is visible with the title 'ADMINISTRATOR' at the top. The menu items include 'Dashboard', 'Manage Company' (which is currently selected and highlighted in blue), 'Manage Student', 'Generate Schedule', 'Generate Shortlist', 'Report Analysis', 'About Us', 'Contact Us', and 'Logout'. At the top right of the main content area, there are dropdown menus for 'Select Company' (set to 'Praneet Infotech') and 'Select Student' (set to 'Mrugesh Modi'). Below these dropdowns, four horizontal input fields represent interview marks for different rounds: 'Round 1 Mark' (85), 'Round 2 Mark' (89), 'Round 3 Mark' (78), and 'Round 4 Mark' (an empty field). A large green 'SAVE MARKS' button is located at the bottom right of the input area.

Figure 2.2.12: Interview Rounds Marks

| | |
|-----------------------------|--|
| Description | The Admin should enter each rounds marks of interview. |
| Data From | tbl_Company_Offerings,tbl_Student_Shortlist, tbl_Student_Basic_Details,tbl_Student_Round_Details |
| Data To | Admin |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows the Company Module of the Placement Management System. On the left is a dark sidebar with a user icon and the title 'ADMINISTRATOR'. Below it are several menu items: 'Dashboard', 'Manage Company' (which is highlighted in blue), 'Manage Student', 'Generate Schedule', 'Generate Shortlist', 'Report Analysis', 'About Us', 'Contact Us', and 'Logout'. The main content area has a header 'Select Company: Bhagwate Incorp.' A table displays two student records:

| Student Photo | Student Id | Student Name | Status |
|---------------|-----------------|---------------|---|
| | 201706100610034 | Kishan Mistry | <input checked="" type="radio"/> Present <input type="radio"/> Absent |
| | 201706100610080 | Mrugesh Modi | <input checked="" type="radio"/> Present <input type="radio"/> Absent |

A green 'SUBMIT' button is located at the bottom right of the table.

Figure 2.2.13: Interview Attendance

| | |
|-----------------------------|--|
| Description | The Admin could maintain the status of Interview Attendance. |
| Data From | tbl_Company_Basic_Details, tbl_Generate_Schedule, tbl_Interview_Attendance |
| Data To | Admin |
| Critical Validations | - |

Placement Management System (Company Module)

| | Company Name | Selection Mode | Stipend | Package | Tenure | Interview Venue | Scheduled Date | |
|--------|-------------------|----------------|---------|---------|--------|-----------------|----------------|----------------------|
| Select | Praneet Infotech | On Campus | 18000 | 1690000 | 3 | Shrimad Hall | 01/07/2020 | Edit |
| Select | Akhilesh Infotech | Off Campus | 15000 | 1500000 | 2 | Off Campus | 04/07/2020 | |
| Select | Abdulla Incorp | On Campus | 15000 | 500000 | 2 | Shrimad Hall | 11/07/2020 | |
| Select | Ravi Infotech | Off Campus | 7600 | 1000000 | 2 | Off Campus | 10/07/2020 | |
| Select | Pixelation | On Campus | 6900 | 690000 | 2 | Shrimad Hall | 13/07/2020 | |
| Select | Bhagwate Incorp | On Campus | 5000 | 500000 | 1 | Shrimad Hall | 16/07/2020 | |
| Select | Megh Infotech | On Campus | 1000 | 1000000 | 1 | Shrimad Hall | 20/07/2020 | |

NOTE 1: Sunday's are not included in the Schedule!

NOTE 2: To Change Schedule Date of Company Please Select the Respective Row!

Figure 2.2.14: Generate Schedule

| | |
|-----------------------------|---|
| Description | The Admin should able to edit the Generated Schedule. |
| Data From | tbl_Generate_Schedule, tbl_Company_Basic_Details, tbl_Company_Blacklist_Status, tbl_Company_Offerings |
| Data To | Admin |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows the Company Module of the Placement Management System. On the left is a dark sidebar with a user icon and the title 'ADMINISTRATOR'. Below it are several menu items: Dashboard, Manage Company, Manage Student, Generate Schedule, Generate Shortlist (which is highlighted in blue), Report Analysis, About Us, Contact Us, and Logout.

The main content area has five filter dropdowns at the top: Technology (ASP.NET), City (Mumbai), Stipend Range (1000-5000), Package Range (100000-500000), and Tenure (1). Below these filters is a table titled 'Shortlist' with columns: Company Name, City, Selection Mode, Stipend, Package, Tenure, and Technology. A single row is shown for 'Bhagwate Incorp' with values: Mumbai, 1, 5000, 500000, 1, and ASP.NET.

A large green button labeled 'DOWNLOAD SHORT-LIST' is centered below the table. At the bottom, a note in red text reads: 'NOTE:- Company's Under BlackList Can't Participate In Short-List!'

| Company Name | City | Selection Mode | Stipend | Package | Tenure | Technology |
|-----------------|--------|----------------|---------|---------|--------|------------|
| Bhagwate Incorp | Mumbai | 1 | 5000 | 500000 | 1 | ASP.NET |

Figure 2.2.15: Company Short-List

| | |
|-----------------------------|--|
| Description | The Admin should generate company shortlist according to various criteria like Technology, City, Stipend, Package, Tenure. |
| Data From | tbl_Student_Required_Technology, tbl_Company_Basic_Details, tbl_Company_Offerings, tbl_Company_Required_Technology, tbl_Company_Blacklist_Status, tbl_Company_Required_Technology, tbl_Student_Prefered_City |
| Data To | Admin |
| Critical Validations | - |

Placement Management System (Company Module)

Figure 2.2.16: Company Update Profile

| | |
|-----------------------------|---|
| Description | Company can update their basic details. |
| Data From | tbl_Company_Basic_Details |
| Data To | Company |
| Critical Validations | <ol style="list-style-type: none"> Email_RegularExpression="^([a-zA-Z0-9!#\$%&!*+/=?^`{ }~-]+(?:\.[a-zA-Z0-9!#\$%&!*+/=?^`{ }~-]+)*@[?:[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?\.\.)+[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?" The format of Mobile Number must be of Indian.^[0-9]{10}] URL_RegularExpression="^(http:// https:// http:// https://)?[a-zA-Z]+([-\.\.]{1}[a-zA-Z0-9]+)*\.[a-zA-Z]{2,5}(:[0-9]{1,5})?(/.*)?\$\$." |

Placement Management System (Company Module)



[Company Basic Details](#)

[Company Offering Details](#)

Selection Mode On Campus Off Campus

Stipend
6900

Package
690000

Tenure
2

Estimated Arrival Date (From)

| | | | | | | |
|-----|------------|-----|-----|-----|-----|-----|
| < | March 2020 | | | | | > |
| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
| | | | | | 11 | 12 |
| | | | | | 13 | 14 |
| | | | | | 15 | |
| | 16 | 17 | 18 | 19 | 20 | 21 |
| | 22 | 23 | 24 | 25 | 26 | 27 |
| | 28 | 29 | | | | |
| | 30 | 31 | 1 | 2 | 3 | 4 |
| | | | | | 5 | |

14-02-2020

Estimated Arrival Date (To)

| | | | | | | | |
|-----|--------------|-----|-----|-----|-----|-----|---|
| < | January 2020 | | | | | | > |
| Mon | Tue | Wed | Thu | Fri | Sat | Sun | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

29-02-2020

Required Technologies

Android ASP.NET C Language C#
C++ DBMS JAVA JSP
PHP Python RDBMS Servlet

Estimate Required Students
50

Total Number of Rounds To Conduct :

Under Graduation Dergee Type :

Post Graduation Dergee Type :

SSC Percentage
95

HSC Percentage
90

4th Semester SGPA
9

Current CGPA
8

Allow ATKT Upto

Additional Technology
PHP

[UPDATE](#)

Figure 2.2.17: Company Offering Page

| | |
|-----------------------------|--|
| Description | Company can update their offerings detail. |
| Data From | tbl_Company_Basic_Details, tbl_Company_Basic_Details, tbl_Company_Offerings, tbl_Company_Blacklist_Status, tbl_Shortlist_Criteria, tbl_Technology |
| Data To | Company |
| Critical Validations | <ol style="list-style-type: none"> 1. The range between Estimated Arrival Date From and Estimated Arrival Date To must be of 14 days 2. The SGPA and CGPA must be in proper format. ReguralExpression = "^(?:[1-9] 0[1-9] 10)((\.\d{1,2})? *)\$" |

Placement Management System (Company Module)

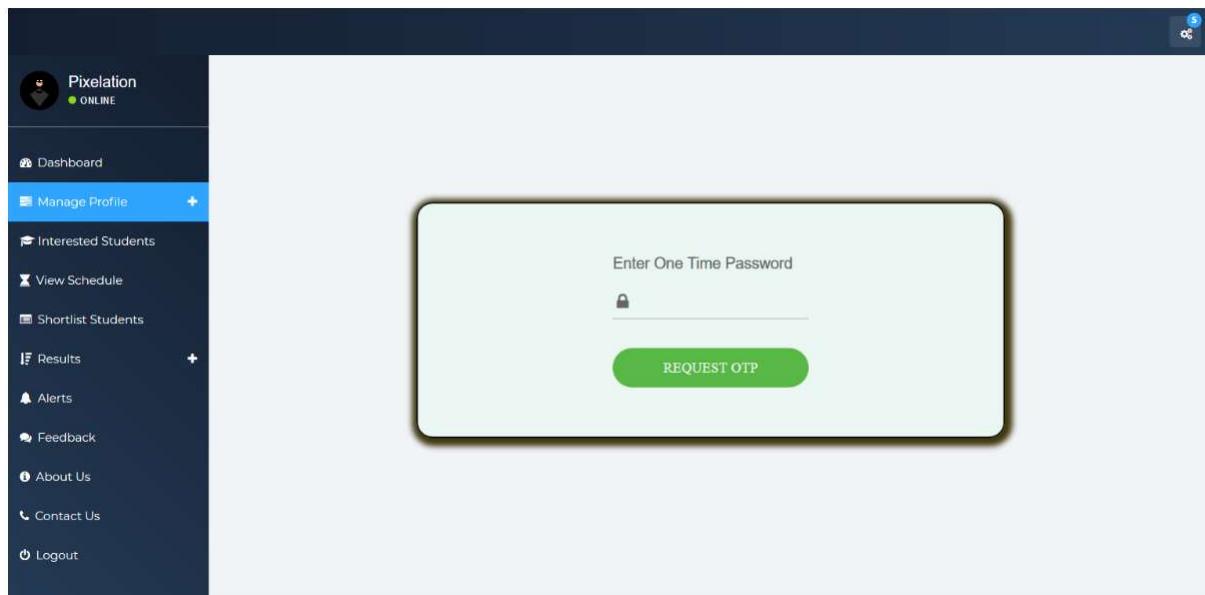


Figure 2.2.18: Change Password

| | |
|-----------------------------|---|
| Description | Company can change their password through Email and OTP(One Time Password) is send to Email for Verification. |
| Data From | tbl_Company_Basic_Details, tbl_Admin_Login |
| Data To | Company |
| Critical Validations | |

Placement Management System (Company Module)

The screenshot shows the Company Module interface. On the left is a dark sidebar with navigation links: Dashboard, Manage Profile, Interested Students (highlighted in blue), View Schedule, Results, Alerts, Feedback, About Us, Contact Us, and Logout. The main area displays four student profiles in rounded rectangular boxes:

- Praneet Kaisare**
Student Name: Praneet Kaisare
Student Id: 201706100610024
Phone No: 9898100471
Email Id: kaisarepraneet@gmail.com
Under Graduation: BCA
Post Graduation: MCA
- Kishan Mistry**
Student Name: Kishan Mistry
Student Id: 201706100610034
Phone No: 9898101476
Email Id: kishan@gmail.com
Under Graduation: BCA
Post Graduation: MCA
- Yash Kataria**
Student Name: Yash Kataria
Student Id: 201706100610037
Phone No: 9512136600
Email Id: katariayash007@gmail.com
Under Graduation: BCA
Post Graduation: MCA
- Mrugesh Modi**
Student Name: Mrugesh Modi
Student Id: 201706100610080
Phone No: 9898100477
Email Id: mrugeshmodi@gmail.com
Under Graduation: BCA
Post Graduation: MCA

Figure 2.2.19: Interested Students

| | |
|-----------------------------|--|
| Description | The Company can able to view the Interested students. |
| Data From | tbl_Company_Basic_Details, tbl_Interested_Student, tbl_Student_Basic_Details |
| Data To | Company |
| Critical Validations | |

Placement Management System (Company Module)

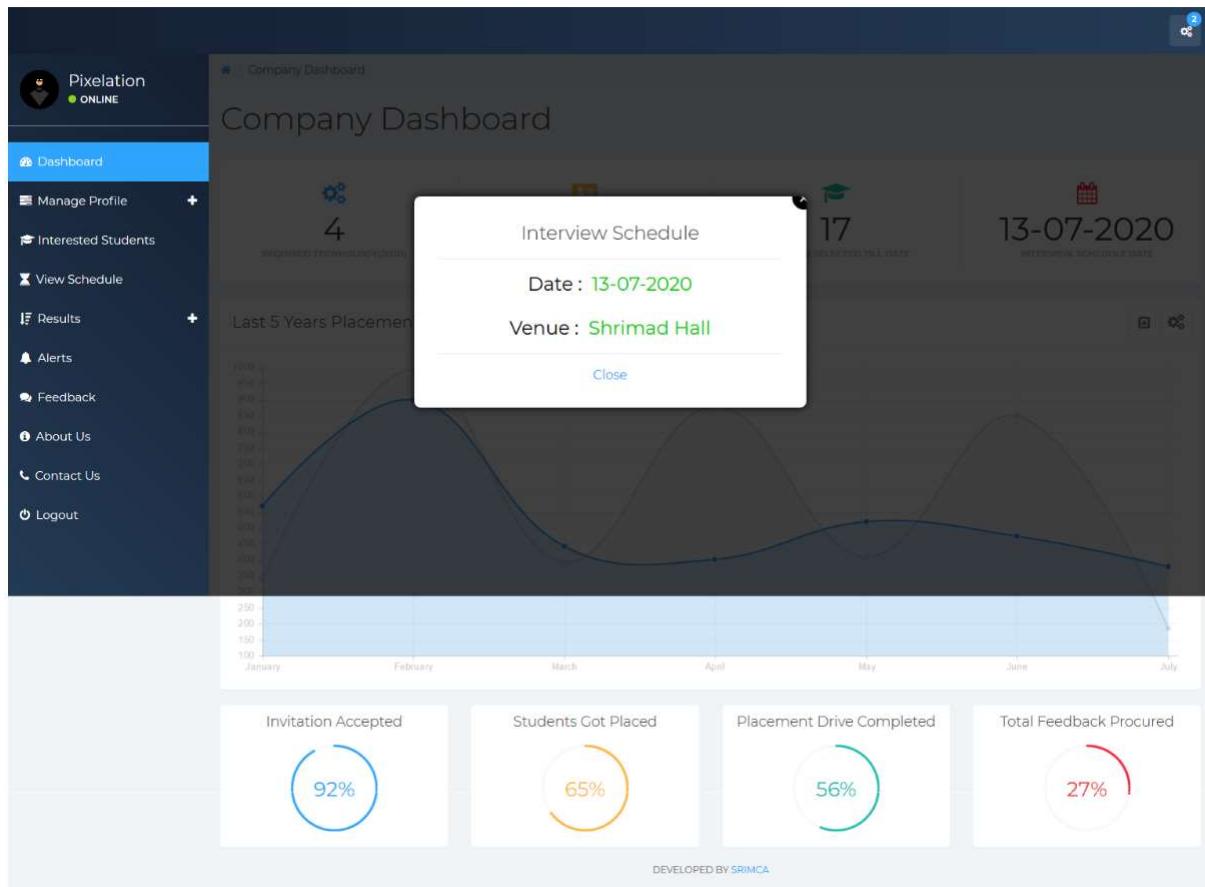


Figure 2.2.20: View Schedule

| | |
|-----------------------------|---|
| Description | The Company can able to view the Schedule Date and Venue. |
| Data From | tbl_Generate_Schedule |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows the Company Module interface. On the left is a sidebar with the company logo 'Pixelation ONLINE'. The main content area displays a table of student results:

| Student Photo | Student Id | Student Name | Final Stipend | Final Package | Final Tenure | Status |
|---------------|-----------------|-----------------|---------------|---------------|--------------|--|
| | 201706100610024 | Praneet Kaisare | 6500 | 790000 | 2 | <input checked="" type="radio"/> Select <input type="radio"/> Reject |
| | 201706100610037 | Yash Kataria | 6900 | 650000 | 1 | <input checked="" type="radio"/> Select <input type="radio"/> Reject |

A green 'SUBMIT' button is located at the bottom right of the table.

Figure 2.2.21: Post Results

| | |
|-----------------------------|--|
| Description | The Company should select the students according to their Interview. |
| Data From | tbl_Interview_Results,tbl_Company_Offerings |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows the Company Module of the Placement Management System. On the left is a dark sidebar menu with the following items:

- Pixelation ONLINE
- Dashboard
- Manage Profile
- Interested Students
- View Schedule
- Shortlist Students
- Results** (highlighted in blue)
- Alerts
- Feedback
- About Us
- Contact Us
- Logout

The main content area displays two student profiles in rounded rectangular boxes:

Student 1 (Praneet Kaisare):

| | |
|---------------|------------------------|
| Student Name: | Praneet Kaisare |
| Student Id: | 201706100610024 |
| Stipend: | 6500/- |
| Package: | 790000/- |
| Tenure: | 2 Year |

Student 2 (Yash Kataria):

| | |
|---------------|------------------------|
| Student Name: | Yash Kataria |
| Student Id: | 201706100610037 |
| Stipend: | 6900/- |
| Package: | 650000/- |
| Tenure: | 1 Year |

Figure 2.2.22: Selected Students

| | |
|-----------------------------|---|
| Description | The Company can able to view the selected students. |
| Data From | tbl_Interview_Results,tbl_Student_Basic_Details |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)

Figure 2.2.23: Alerts

| | |
|-----------------------------|--|
| Description | The Company can able to view the Alerts. |
| Data From | tbl_Company_Alerts |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)

The screenshot shows the company module's contact page. On the left is a dark sidebar menu with options like Dashboard, Manage Company, Manage Student, Generate Schedule, Generate Shortlist, Report Analysis, About Us, Contact Us (which is highlighted in blue), and Logout. The main content area features a map of Uka Tarsadia University's location in Tarsadi, Gujarat. The map includes labels for Maliba Campus, Bardoli-Mahuva Road, Gopal Vidyanager, and various local landmarks like Goji, Sarethi, and Kanki. A callout box on the map provides the university's address: Maliba Campus, Bardoli-Mahuva Road, Tarsadi, Mahuva-Bardoli Rd, Gopal Vidyanager, Bardoli, Gujarat 394350, and notes it has 3.7 stars and 163 reviews. To the right of the map is the UKA Tarsadia University logo, which consists of a stylized flame icon above the text "UKA TARSADIA university". Below the logo is the university's contact information: Shrimad Rajchandra Institute of Management and Computer Application, Maliba Campus, Gopal Vidyanager, Bardoli Mahuva Road, TARSADI Dist: Surat - 394 350, Gujarat (INDIA). The phone number is +91 976885083, the email is director.srimca@utu.ac.in, and the fax is +91 9768850839.

Figure 2.2.24: Contact Us

| Description | Contact details of the Company |
|----------------------|--------------------------------|
| Data From | Remote Server |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)



Figure 2.2.25: About Us

| | |
|-----------------------------|------------------------------------|
| Description | The Information about the Company. |
| Data From | Remote Server |
| Data To | Company |
| Critical Validations | - |

Placement Management System (Company Module)



Company Name Pixelation

Company Visit Team

| | |
|---|--|
| <input type="checkbox"/> Dr. Kalpesh Lad | <input type="checkbox"/> Dr. Jikitsha Sheth |
| <input type="checkbox"/> Ms. Chetana M. Tailor | <input type="checkbox"/> Dr. Jaishree Tailor |
| <input type="checkbox"/> Mr. Jitendra Upadhyay | <input type="checkbox"/> Ms. Puja Sharma |
| <input type="checkbox"/> Ms. Poonam Godhwani | <input type="checkbox"/> Ms. Khushbu Patel |
| <input checked="" type="checkbox"/> Mr. Vivek Fumakia | <input type="checkbox"/> Ms. Jenisha Tailor |
| <input type="checkbox"/> Mr. Pratik Nayak | <input type="checkbox"/> Ms. Unnati Shah |
| <input type="checkbox"/> Mr. Kevin Bhavasar | <input type="checkbox"/> Ms. Zarana Kanani |

Date Of Company Visited

| | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|
| June 2020 | | | | | | |
| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 1 | 2 | 3 | 4 | 5 |

26-06-2020

Name of Person Interacted With
Mr Sunil Chearamani

Company Email Id
sunil106@hotmail.com

Contact No.
9227222271

Your Experience
Experience was very good with Sunil sir. Our conversation of technical/non-technical talk was for till 1.5 hours approx with light refreshment snacks. Many new things we came to know from him_Sunil sir also briefed about few of

Your Findings
Sunil sir was very happy with our student Pravin's performance. He gaved excellent grade to our students based on Pravin's work and dedication.

Special Remarks
None

Is Company Recommended for next year
 YES NO
Placement/Internship.?

Figure 2.2.26 : Manage Company Visit

| | |
|-----------------------------|--|
| Description | Admin can add company visit details. |
| Data From | tbl_Company_Visit_Details, |
| Data To | Company |
| Critical Validations | <p>1. Email_RegularExpression=" [a-zA-Z0-9!#\$%&'*+/=?^`{ }~-]+(?:\.[a-zA-Z0-9!#\$%&'*+/=?^`{ }~-]+)*@(?:[a-zA-Z0-9-]*[a-zA-Z0-9])?\.\.)+[a-zA-Z0-9](?:[a-zA-Z0-9-]*[a-zA-Z0-9])?"</p> <p>2. The format of Mobile Number must be of Indian.^[0-9]{10}]</p> |

2.3 Error page with the description

| Message | Description |
|---------|-------------|
|---------|-------------|

Placement Management System (Company Module)

| | |
|---|---|
| Invalid Username or Password! | In case of Invalid Email and Password while <u>Login Attempts</u> . |
| Right Click Is Disabled | For Security reason,hiding the Source Code and <u>Inspect Element</u> . |
| Please Fill All The Fields...!! | In case of submiting the details(Company) if any of the fields remains empty. |
| Please Enter only Numeric Value for Batch Count And Passed Out Students..!! | In <u>Invitation Template</u> for Company the values for batch count and passed out students must be only in numeric. |

Placement Management System (Company Module)

2.4 Summary

| Functionality | Total Pages | No. of Validation | |
|-----------------------------|-------------|-------------------|------------|
| | | Built-in | Customized |
| Login Page | 1 | 4 | 1 |
| Forgot Password | 2 | 7 | - |
| Company Registration | 2 | 16 | 1 |
| Invitation Template | 1 | - | 2 |
| Admin Manage Profiles | 2 | 41 | 4 |
| Alert Configuration | 1 | 8 | 1 |
| Backlist Configuration | 1 | - | - |
| Interview Rounds Marks | 1 | 4 | - |
| Interview Attendance | 1 | - | - |
| Generate Schedule | 1 | - | - |
| Company Shortlist | 1 | - | - |
| Company Update Profile | 1 | 41 | 4 |
| Change Company Password | 1 | 5 | - |
| Display Interested Students | 1 | - | - |
| View Schedule Date & Venue | - | - | 1 |
| Post Results | 1 | - | - |
| Selected Students | 1 | - | - |
| Company Alerts | 1 | - | - |

Placement Management System (Company Module)

| | | | |
|-------------------|----|-----|---|
| About Us | 1 | - | - |
| Contact Us | 1 | - | - |
| Admin Dashboard | 1 | - | - |
| Company Dashboard | 1 | - | - |
| Count | 24 | 140 | |

3. Coding Specifications

3.1 Coding Standards for GUI Designing and Coding:

1. Use Meaningful, descriptive words to name variables. Do not use abbreviations.
2. Do not use single-character variable names like i, n, s, etc. Use names like index, temp
3. All member variables must be prefixed with an underscore (_) so that they can be identified from other local variables.
4. Prefix booleanvariables, properties, and methods with "is" or similar prefixes.
Ex: private bool _isFinished
5. Do not use Hungarian notation to name variables.
6. Use the appropriate prefix for each of the UI elements. A brief list is given below. Since .NET has given several controls, you may have to arrive at a complete list of standard prefixes for each of the controls (including third party controls) you are using.

| Control | Prefix | Control | Prefix |
|--------------|--------|-----------------|--------|
| Label | lbl | CheckBoxList | cbl |
| TextBox | txt | RadioButton | rdb |
| DataGridView | dg | RadioButtonList | rbl |
| Button | btn | Image | img |
| ImageButton | imb | Panel | pnl |
| Hyperlink | hl | PlaceHolder | ph |
| DropDownList | ddl | Table | tbl |
| Gridview | grd | Repeater | rep |
| DataList | dl | Checkbox | cbx |

7. Use TAB for indentation. Do not use SPACES. Define the Tab size as 4.
8. Avoid writing very long methods. A method should typically have 1~25 lines of code. If a method has more than 25 lines of code, you must consider refactoring into separate methods.

Placement Management System (Company Module)

9. A method should do only 'one job'. Do not combine more than one job in a single method, even if those jobs are very small.
10. The method name should tell what it does. Do not use misleading names. If the method name is obvious, there is no need for documentation explaining what the method does.
11. Do not make the member variables public or protected. Keep them private and expose public/protected Properties.
12. If you are opening database connections, sockets, file streams, etc, always close them in the finally block. This will ensure that even if an exception occurs after opening the connection, it will be safely closed in the finally block.
13. Avoid passing too many parameters to a method. If you have more than 4~5 parameters, it is a good candidate to define a class or structure.

3.1.1 Critical Code with Justification

3.1.1.1 Company Shortlist Generation:-

Display Shortlisting criteria(Technology,City) according to the selection of the students
eg. The count of the ASP.NET Technology is highest so it will appear first accordingly same for the City.

Display Shortlisting criteria(Stipend,Package,Tenure) in Ascending order.

Algorithm:-

Step-1 : Calling Display_Company method with 5 parameters(Technology Name,Preferred City,Stipend,Package,Tenure)

Step-2: Query for displaying the Technology,City according to the choices of the students

Step-3 : Displaying the Stipend,Package and Tenure in Ascending Order

CS Code:-

```
protectedvoid Display_Company(String TechName="", String Pref_City="", String Stipend="", String
Package = "", String Tenure = "")  
{
try
{
    String Query = "SELECT tbl_Company_Basic_Details.Company_Name As 'Company Name', " +
"tbl_Company_Ba66tsic_Details.Company_City as 'City',tbl_Company_Basic_Details.Company_Logo, " +
+"tbl_Company_Offerings.Selection_Mode as 'Selection Mode','" +
"tbl_Company_Offerings.Stipend as 'Stipend',tbl_Company_Offerings.Package as 'Package',
tbl_Company_Offerings.Tenure as 'Tenure','" +
"tbl_Company_Required_Technology.Technology_Name as 'Technology' FROM
tbl_Company_Basic_Details INNER JOIN" +
"tbl_Company_Blacklist_Status ON tbl_Company_Basic_Details.Company_Id =
tbl_Company_Blacklist_Status.Company_Id" +
"INNER JOIN tbl_Company_Offerings ON tbl_Company_Basic_Details.Company_Id =
tbl_Company_Offerings.Company_Id" +
"INNER JOIN tbl_Company_Required_Technology ON tbl_Company_Basic_Details.Company_Id =
tbl_Company_Required_Technology.Company_Id" +
"WHERE(tbl_Company_Blacklist_Status.Company_BlackList_Status <> 'Yes')";  
  

if (!TechName.Equals(""))  

{
    Query += " AND(tbl_Company_Required_Technology.Technology_Name = '" + TechName + "')";  

}  

if (!Pref_City.Equals(""))  

{
    Query += " AND(tbl_Company_Basic_Details.Company_City = '" + Pref_City + "')";  

}  
  

if (!Stipend.Equals(""))  

{
```

Placement Management System (Company Module)

```
if (Stipend.Equals("10000"))
{
    Query += " AND(tbl_Company_Offerings.Stipend > '" + float.Parse(Stipend) + "')";
}

else
{
    Query += " AND(tbl_Company_Offerings.Stipend BETWEEN '' +
float.Parse(Stipend.Substring(0, 4).ToString()) + "' AND '" + float.Parse(Stipend.Substring(5,
Stipend.Length - 5).ToString()) + "')";
}

if (!Package.Equals(""))
{
if (Package.Equals("1000000"))
{
    Query += " AND(tbl_Company_Offerings.Package > '" + float.Parse(Package) + "')";
}
else
{
    Query += " AND(tbl_Company_Offerings.Package BETWEEN '' +
float.Parse(Package.Substring(0, 6).ToString()) + "' AND '" + float.Parse(Package.Substring(7,
Package.Length - 7).ToString()) + "')";
}
}

if (!Tenure.Equals(""))
{
    Query += " AND(tbl_Company_Offerings.Tenure = '" + Tenure + "')";
}

Query += " ORDER BY tbl_Company_Offerings.Stipend DESC, tbl_Company_Offerings.Package
DESC, tbl_Company_Offerings.Tenure";

SqlDataAdapter Sda = new SqlDataAdapter(Query, Con);
DataSet Ds = new DataSet();
Sda.Fill(Ds);

if (Ds.Tables[0].Rows.Count != 0)
{
    lbl_No_Record.Visible = false;
    gv_Company_List.Visible = true;
    gv_Company_List.DataSource = Ds.Tables[0];
    gv_Company_List.DataBind();
}
else
{
    lbl_No_Record.Visible = true;
    gv_Company_List.Visible = false;
    lbl_No_Record.Text = "No Records Found.";
}

}

catch (Exception ex)
{
    Response.Write(ex.Message);
}
}
```

Placement Management System (Company Module)

3.1.1.2 Company Post Results:-

Display the details of the Students who appeared in the Interview and further the Company can select the Students with Final Stipend, Package, Tenure or Company can reject the Students

ASPX Code

```
<asp:GridView ID="GridView1" Style="margin-top:5%;runat="server" AutoGenerateColumns="False" DataKeyNames="Student_Id" DataSourceID="SqlDataSource1" AllowPaging="True" BackColor="White" BorderColor="#242c42" BorderStyle="Solid" BorderWidth="4px" GridLines="Both" Font-Size="X-Small" Width="95%" OnDataBound="GridView1_DataBound">
<AlternatingRowStyle BackColor="#DCDCDC"></AlternatingRowStyle>
<Columns>

<asp:TemplateField HeaderText="Student Photo">
<HeaderStyle Width="10%" CssClass="Center" />
<ItemStyle Wrap="false" HorizontalAlign="Center" VerticalAlign="Middle" />
<ItemTemplate>
<asp:Image Style="padding:15px;" ID="img_Student_Photo" Height="100" Width="100" ImageAlign="Middle" ImageUrl='<%#"data:image/jpg;base64,"+Convert.ToString((byte[])Eval("Student_Photo")) %>' runat="server" /></asp:Image>
</ItemTemplate>
</asp:TemplateField>
<asp:BoundField DataField="Student_Id" ControlStyle-Width="10%" HeaderText="Student Id" ReadOnly="True" SortExpression="Student_Id" HeaderStyle-CssClass="Center" /></asp:BoundField>
<asp:BoundField DataField="Student_Name" ControlStyle-Width="10%" HeaderText="Student Name" SortExpression="Student_Name" HeaderStyle-CssClass="Center" /></asp:BoundField>

<asp:TemplateField HeaderText="Final Stipend">
<HeaderStyle Width="10%" CssClass="Center" />
<ItemStyle Wrap="false" HorizontalAlign="Center" />
<ItemTemplate>
<asp:TextBox ID="Final_Stipend" Width="90%" runat="server" /></asp:TextBox>
</ItemTemplate>
</asp:TemplateField>
<asp:TemplateField HeaderText="Final Package">
<HeaderStyle Width="10%" CssClass="Center" />
<ItemStyle Wrap="false" HorizontalAlign="Center" />
<ItemTemplate>
<asp:TextBox ID="Final_Package" Width="90%" runat="server" /></asp:TextBox>
</ItemTemplate>
</asp:TemplateField>

<asp:TemplateField HeaderText="Final Tenure">
<HeaderStyle Width="10%" CssClass="Center" />
<ItemStyle Wrap="false" HorizontalAlign="Center" />
<ItemTemplate>
<asp:TextBox ID="Final_Tenure" Width="90%" runat="server" /></asp:TextBox>
</ItemTemplate>
```

Placement Management System (Company Module)

```
</asp:TemplateField>
<asp:TemplateFieldHeaderText="Status">
<HeaderStyleWidth="20%" CssClass="Center"/>
<ItemStyleWrap="false" HorizontalAlign="Center"/>
<ItemTemplate>
<asp:RadioButtonListID="rbl_Status" runat="server" CssClass="rbl" RepeatDirection="Horizontal">
<asp:ListItemText="Select" Value="Select"></asp:ListItem>
<asp:ListItemText="Reject" Value="Reject"></asp:ListItem>
</asp:RadioButtonList>
</ItemTemplate>

</asp:TemplateField>
</Columns>

<HeaderStyleBackColor="#242c42" CssClass="gridviewRow" ForeColor="White" Height="60" Font-Size="X-Large"></HeaderStyle>

<PagerStyleHorizontalAlign="Center" BackColor="#999999" ForeColor="Black"></PagerStyle>

<RowStyleBackColor="#EEEEEE" ForeColor="Black" CssClass="gridviewRow" Height="80px"></RowStyle>

<SelectedRowStyleBackColor="#008A8C" Font-Bold="True" ForeColor="White"></SelectedRowStyle>

</asp:GridView>
<asp:SqlDataSource runat="server" ID="SqlDataSource1" ConnectionString="<%$.ConnectionStrings:ConnectionString %>" SelectCommand="SELECT
tbl_Student_Basic_Details.Student_Photo,          tbl_Student_Basic_Details.Student_Name,          tbl_Student_Basic_Details.Student_Id FROM tbl_Student_Basic_Details INNER JOIN tbl_Student_Shortlist ON
tbl_Student_Basic_Details.Student_Id =  tbl_Student_Shortlist.Student_Id WHERE ([Company_Id] = @Company_Id)">
<SelectParameters>
<asp:ControlParameter ControlID="lbl_Company_Id" PropertyName="Text" Name="Company_Id" Type="Int32"></asp:ControlParameter>
</SelectParameters>
</asp:SqlDataSource>
```

Placement Management System (Company Module)

3.1.1.3 Admin Interview Attendance:-

Display the Students detail who appeared for the Interview and further Admin will maintain the Attendance of the Students (present or absent).

ASPX Code

```
<asp:GridViewID="GridView1"Style="margin-top:5%;"runat="server"AutoGenerateColumns="False"DataKeyNames="Student_Id"DataSourceID="SqlDataSource1"AllowPaging="True"BackColor="White"BorderColor="#242c42"BorderStyle="Solid"BorderWidth="4px"GridLines="Both"Font-Size="X-Large"Width="90%"OnDataBound="GridView1_DataBound">
<AlternatingRowStyleBackColor="#DCDCDC"></AlternatingRowStyle>
<Columns>

<asp:TemplateFieldHeaderText="Student Photo">
<HeaderStyleWidth="23%"CssClass="Center"/>
<ItemStyleWrap="false"HorizontalAlign="Center"VerticalAlign="Middle"/>
<ItemTemplate>
<asp:ImageStyle="padding:15px;"ID="img_Student_Photo"Height="100"Width="100"ImageAlign="Middle"ImageUrl=<%# "data:image/jpg;base64,"+Convert.ToString([byte[]]Eval("Student_Photo")) %> runat="server"></asp:Image>
</ItemTemplate>
</asp:TemplateField>
<asp:BoundFieldDataField="Student_Id"ControlStyle-Width="20%"HeaderText="Student Id"ReadOnly="True"SortExpression="Student_Id"HeaderStyle-CssClass="Center"></asp:BoundField>
<asp:BoundFieldDataField="Student_Name"ControlStyle-Width="20%"HeaderText="Student Name"SortExpression="Student_Name"HeaderStyle-CssClass="Center"></asp:BoundField>

<asp:TemplateFieldHeaderText="Status">
<HeaderStyleWidth="27%"CssClass="Center"/>
<ItemStyleWrap="false"HorizontalAlign="Center"/>
<ItemTemplate>
<asp:RadioButtonListID="rbl_Status"runat="server"CssClass="rbl"RepeatDirection="Horizontal">
<asp:ListItemText="Present"Value="Present"></asp:ListItem>
<asp:ListItemText="Absent"Value="Absent"></asp:ListItem>
</asp:RadioButtonList>
</ItemTemplate>
</asp:TemplateField>
</Columns>

<HeaderStyleBackColor="#242c42"CssClass="gridviewRow"ForeColor="White"Height="60"FontSize="X-Large"></HeaderStyle>

<PagerStyleHorizontalAlign="Center"BackColor="#999999"ForeColor="Black"></PagerStyle>

<RowStyleBackColor="#EEEEEE"ForeColor="Black"CssClass="gridviewRow"Height="80px"></RowStyle>

<SelectedRowStyleBackColor="#008A8C"Font-Bold="True"ForeColor="White"></SelectedRowStyle>

</asp:GridView>
<asp:SqlDataSourcerunat="server"ID="SqlDataSource1"ConnectionString=<%$ ConnectionStrings:ConnectionString %>'SelectCommand="SELECT tbl_Student_Basic_Details.Student_Photo,tbl_Student_Basic_Details.Student_Name,tbl_Student_Basic_Details.Student_Id FROM tbl_Student_Basic_Details INNER JOIN tbl_Student_Shortlist
```

Placement Management System (Company Module)

```
ON tbl_Student_Basic_Details.Student_Id = tbl_Student_Shortlist.Student_Id WHERE ([Company_Id] =
@Company_Id)">
<SelectParameters>
<asp:ControlParameterControlID="ddl_Company_Id_List"PropertyName="SelectedValue"Name="Compan
y_Id"Type="Int32"></asp:ControlParameter>
</SelectParameters>
</asp:SqlDataSource>
```

3.1.1.4 Company Criteria Registration:-

If the Company is newly Registered then the criteria detail is inserted or if the Company already exist then update the criteria details.

Procedure

```
CREATEPROCEDURE [dbo].[sp_Company_Criteria_Registration]
(
@UpdateOrNot INT,
@Company_Id INT,
@Selection_Mode TINYINT,
@Stipend FLOAT,
@Package FLOAT,
@Tenure TINYINT,
@Estimate_Arrival_Date_From DATE,
@Estimate_Arrival_Date_To DATE,
@Estimate_Required_Students TINYINT,
@Company_Total_Rounds INT,
@Last_Updated_Year INT,
@Under_Graduation_Degree_Type VARCHAR(50),
@Post_Graduation_Degree_Type VARCHAR(50),
@SSC_Percentage      FLOAT,
@HSC_Percentage      FLOAT,
@SGPA                FLOAT,
@CGPA                FLOAT,
@Additional_Technology  VARCHAR(50),
@Allow_KT             TINYINT
)
AS
Begin
if(@UpdateOrNot = 1)
Begin
Update tbl_Company_Offerings set Selection_Mode=@Selection_Mode, Stipend=@Stipend,
Package=@Package,Tenure=@Tenure,Estimate_Arrival_Date_From=@Estimate_Arrival_Date_From,
Estimate_Arrival_Date_To=@Estimate_Arrival_Date_To,Estimate_Required_Students=@Estimate_Require
d_Students,
Company_Total_Rounds=@Company_Total_Rounds,Last_Updated_Year=@Last_Updated_Year where
Company_Id=@Company_Id;

Update tbl_Shortlist_Criteria set [Under_Graduation_Degree_Type ]=@Under_Graduation_Degree_Type,
Post_Graduation_Degree_Type=@Post_Graduation_Degree_Type,SSC_Percentage=@SSC_Percentage,
HSC_Percentage=@HSC_Percentage,SGPA=@SGPA,CGPA=@CGPA,Additional_Technology=@Additional_T
echnology,
Allow_KT=@Allow_KT where Company_Id=@Company_Id;
```

Placement Management System (Company Module)

```
End  
Elseif(@UpdateOrNot = 0)  
Begin  
  
Insertinto tbl_Company_Offerings values (@Company_Id,@Selection_Mode,  
@Stipend,@Package,@Tenure,@Estimate_Arrival_Date_From,@Estimate_Arrival_Date_To,  
@Estimate_Required_Students,@Company_Total_Rounds,@Last_Updated_Year);  
  
Insertinto tbl_Shortlist_Criteria values (@Company_Id,@Under_Graduation_Degree_Type,  
@Post_Graduation_Degree_Type,@SSC_Percentage,@HSC_Percentage,@SGPA,@CGPA,  
@Additional_Technology,@Allow_KT)  
End  
  
End  
RETURN 0
```

3.1.1.5. Company Schedule Generation and Downloading in Docx Format :-

Admin can able to generate the Schedule according to varoius criteria like

- The listing of company should be Stipend, Package and Tenure wise
- Admin can able edit the Scheduled date

The Admin can also Download the docx of Generated Shortlist according to rspective Criteria.

```
<asp:GridViewID="GridView1"runat="server"BackColor="White"DataKeyNames="Com  
pany_Id"AutoGenerateColumns="false"BorderColor="#242c42"BorderStyle="Solid"Border  
Width="4px"Width="90%"GridLines="Both"DataSourceID="SqlDataSource1"AutoG  
enerateSelectButton="True"OnSelectedIndexChanged="GridView1_SelectedIndexChanged">  
<Columns>  
    <asp:BoundFieldDataField="Company_Id"HeaderText="Company  
Id"ReadOnly="true"HeaderStyle-CssClass="CompanyListHide"ItemStyle-  
CssClass="CompanyListHide"SortExpression="Company_Id"></asp:BoundField>  
    <asp:BoundFieldDataField="Company_Name"HeaderText="Company  
Name"ReadOnly="true"SortExpression="Company_Name"></asp:BoundField>  
    <asp:BoundFieldDataField="Selection_Mode"HeaderText="Selection  
Mode"ReadOnly="true"SortExpression="Selection_Mode"></asp:BoundField>  
    <asp:BoundFieldDataField="Stipend"HeaderText="Stipend"ReadOnly="true"SortExpres  
sion="Stipend"></asp:BoundField>  
    <asp:BoundFieldDataField="Package"HeaderText="Package"ReadOnly="true"SortExpres  
sion="Package"></asp:BoundField>  
    <asp:BoundFieldDataField="Tenure"HeaderText="Tenure"ReadOnly="true"SortExpres  
sion="Tenure"></asp:BoundField>  
  
<asp:TemplateFieldHeaderText="Interview Venue">  
    <HeaderStyleCssClass="Center"/>
```

Placement Management System (Company Module)

```
<ItemStyleWrap="false"HorizontalAlign="Center"/>
<ItemTemplate>
<asp:DropDownListID="ddl_Interview_Venue"AutoPostBack="false"runat="server">
<asp:ListItem>Shrimad Hall</asp:ListItem>
<asp:ListItem>Pushpam Hall</asp:ListItem>
<asp:ListItem>Manjula Hall</asp:ListItem>
<asp:ListItem>Off Campus</asp:ListItem>
</asp:DropDownList>
</ItemTemplate>
</asp:TemplateField>

<asp:TemplateFieldHeaderText="Scheduled Date">
<HeaderStyleCssClass="Center"/>
<ItemStyleWrap="false"HorizontalAlign="Center"/>
<ItemTemplate>
<asp:TextBoxID="txt_Schedule_Date"Width="120px"runat="server"></asp:TextBox>
</ItemTemplate>
</asp:TemplateField>

<asp:TemplateFieldHeaderText="">
<HeaderStyleCssClass="Center"/>
<ItemStyleWrap="false"HorizontalAlign="Center"/>
<ItemTemplate>
<asp:HyperLinkID="hyplink_Edit"runat="server"Font-Size="18"Font-Bold="true"ForeColor="#66ccff"Visible="false"NavigateUrl="#ex1"rel="modal:open">Edit</asp:HyperLink>
</ItemTemplate>
</asp:TemplateField>
</Columns>
<AlternatingRowStyleBackColor="#DCDCDC"></AlternatingRowStyle>

<HeaderStyleBackColor="#242c42"Wrap="false"ForeColor="White"CssClass="gridviewHeader"HorizontalAlign="Center"Height="60px"VerticalAlign="Middle"></HeaderStyle>

<PagerStyleHorizontalAlign="Center"BackColor="#999999"ForeColor="Black"></PageStyle>

<RowStyleBackColor="#EEEEEE"Wrap="false"ForeColor="Black"CssClass="gridviewRow"Height="50px"></RowStyle>

<SelectedRowStyleBackColor="#008A8C"ForeColor="Black"></SelectedRowStyle>
</asp:GridView>
<asp:SqlDataSourcerunat="server"ID="SqlDataSource1"ConnectionString='<%$ConnectionStrings:ConnectionString %>'SelectCommand="SELECTtbl_Company_Basic_Details.Company_Id,tbl_Company_Basic_Details.Company_Name,tbl_Company_Offerings.Selection_Mode,tbl_Company_Offerings.Stipend,tbl_Company_Offerings.Package,tbl_Company_Offerings.Tenure FROMtbl_Company_Basic_Details INNER JOINtbl_Company_Blacklist_Status ON
```

Placement Management System (Company Module)

```
tbl_Company_Basic_Details.Company_Id = tbl_Company_Blacklist_Status.Company_Id
INNER JOIN tbl_Company_Offerings ON tbl_Company_Basic_Details.Company_Id =
tbl_Company_Offerings.Company_Id
WHERE
(tbl_Company_Blacklist_Status.Company_BlackList_Status <> 'Yes') ORDER BY
tbl_Company_Offerings.Stipend DESC, tbl_Company_Offerings.Package DESC,
tbl_Company_Offerings.Tenure"></asp:SqlDataSource>
```

```
<h4 class="modal-title">Select a New Date for Interview Schedule</h4>
</div>
<div class="modal-body" style="font-size: 15px;">
<br/>
<asp:ScriptManager ID="ScriptManager1" runat="server"></asp:ScriptManager>
<asp:UpdatePanel ID="UpdatePanel1" runat="server">
<ContentTemplate>
<asp:Calendar ID="cld_Schedule_Date_Change" runat="server" DayHeaderStyle-
BorderColor="#032152" DayHeaderStyle-
BorderStyle="Solid" DayHeaderStyle-BorderWidth="2px"
DayStyle-BorderColor="#032152" DayStyle-BorderStyle="Solid" DayStyle-
BorderStyle="Solid" DayStyle-BorderWidth="2px" FirstDayOfWeek="Sunday" SelectedDayStyle-
ForeColor="Black" ShowGridLines="True"
TitleStyle-BackColor="#093051" TitleStyle-
ForeColor="White" SelectionMode="Day" CellPadding="5" CellSpacing="5" OnDayRender
="cld_Schedule_Date_Change_DayRender">

<DayHeaderStyle BorderColor="#032152" BorderWidth="2px" BorderStyle="Solid"></D
ayHeaderStyle>
<DayStyle BorderColor="#032152" BorderWidth="2px" BorderStyle="Solid"></DayStyle
>
<NextPrevStyle ForeColor="White"></NextPrevStyle>
<SelectedDayStyle ForeColor="Black"></SelectedDayStyle>
<TitleStyle BackColor="#093051" ForeColor="White"></TitleStyle>
</asp:Calendar>
</ContentTemplate>
</asp:UpdatePanel>
</div>
<div class="modal-footer">
<center>
<asp:LinkButton ID="btn_Update" runat="server" Text="Update" Font-
Size="Medium" OnClick="btn_Update_Click" Style="margin-
right:7%;"></asp:LinkButton>
<asp:LinkButton ID="btn_Close" OnClick="btn_Close_Click" Font-
Size="Medium" runat="server" Text="Cancel"></asp:LinkButton>
</center>

<script type="text/javascript">
function PopUp_Close() {
    $("#ex1").modal("hide");
}
```

Placement Management System (Company Module)

```
}

</script>

protected void btn_Download_PDF_Click(object sender, EventArgs e)
{
    Response.Clear();
    Response.Buffer = true;
    Response.ClearContent();
    Response.ClearHeaders();
    Response.Charset = "";
    string FileName = "Interview_Attendance_(" + DateTime.Now.ToString("dd/MM/yyyy")
    + ".xls";
    StringWriter strwriter = new StringWriter();
    HtmlTextWriter htmltextwrtter = new HtmlTextWriter(strwriter);
    Response.Cache.SetCacheability(HttpCacheability.NoCache);
    Response.ContentType = "application/vnd.ms-excel";
    Response.AddHeader("Content-Disposition", "attachment;filename=" +
    FileName);
    GridView1.GridLines = GridLines.Both;
    GridView1.HeaderStyle.Font.Bold = true;
    for (int i = 0; i < GridView1.HeaderRow.Cells.Count; i++)
    {
        GridView1.HeaderRow.Cells[i].Style.Add("width", "200");
        GridView1.HeaderRow.Cells[i].Style.Add("height", "50");
        GridView1.HeaderRow.Cells[i].Style.Add("text-align", "center");
        GridView1.HeaderRow.Cells[i].Style.Add("font-size", "23px");
        GridView1.HeaderRow.Cells[i].Style.Add("border", "1px solid black");

    }
    for (int i = 0; i < GridView1.Rows.Count; i++)
    {
        for (int j = 0; j < GridView1.Rows[0].Cells.Count; j++)
        {
            GridView1.Rows[i].Cells[j].Style.Add("text-align", "center");
            GridView1.Rows[i].Cells[j].Style.Add("font-size", "20px");
            GridView1.Rows[i].Cells[j].Style.Add("border", "1px solid black");
        }
    }
    GridView1.RenderControl(htmltextwrtter);
    Response.Write(strwriter.ToString());
    Response.End();
}
```

3.2 External libraries:

| Library Name | Purpose |
|------------------------------|---------------------------|
| System.Security.Cryptography | MD5 Password Encryption |
| System.Net.Mail | Sending Mail using SMTP . |

3.3 Summary:

| Page Name | Line Of Code | |
|-------------------------------|--------------|-------------|
| | ASPX Code | CS Code |
| LoginPage | 165 | 176 |
| Forgot_Password | 159 | 125 |
| Company_Registration_Form | 259 | 188 |
| Invitation_Template | 118 | 157 |
| Admin_Manage_Profile | 519 | 460 |
| Admin_Configure_Alert | 152 | 171 |
| Admin_Blacklist_Configuration | 126 | 56 |
| Admin_Student_Marks_Entry | 108 | 224 |
| Admin_Interview_Attendance | 117 | 181 |
| Admin_Schedule_Generation | 184 | 210 |
| Admin_Company_Shortlist | 146 | 278 |
| Admin_About_Us | 40 | 20 |
| Admin_Contact_Us | 91 | 20 |
| Admin_Dashboard | 161 | 138 |
| Admin_Company_ViewProfile | 158 | 64 |
| Admin_MasterPage | 362 | 40 |
| Company_Update_Profile | 481 | 344 |
| Company_Update_Password | 131 | 124 |
| Company_Interested_Students | 156 | 20 |
| Company_Post_Results | 143 | 159 |
| Company_Selected_Students | 153 | 22 |
| Company_Alerts | 40 | 41 |
| Company_About_Us | 40 | 20 |
| Company_Contact_Us | 92 | 20 |
| Company_Criteria_Registration | 357 | 201 |
| Company_Dashboard | 164 | 93 |
| Company_MasterPage | 356 | 84 |
| Admin_Add_Company_Visit | 225 | 161 |
| Admin_View_Company_Visit | 196 | 96 |
| Total | 5399 | 3893 |
| | | 9292 |

4. Reports

4.1 Dashboard

4.1.1 Admin Dashboard

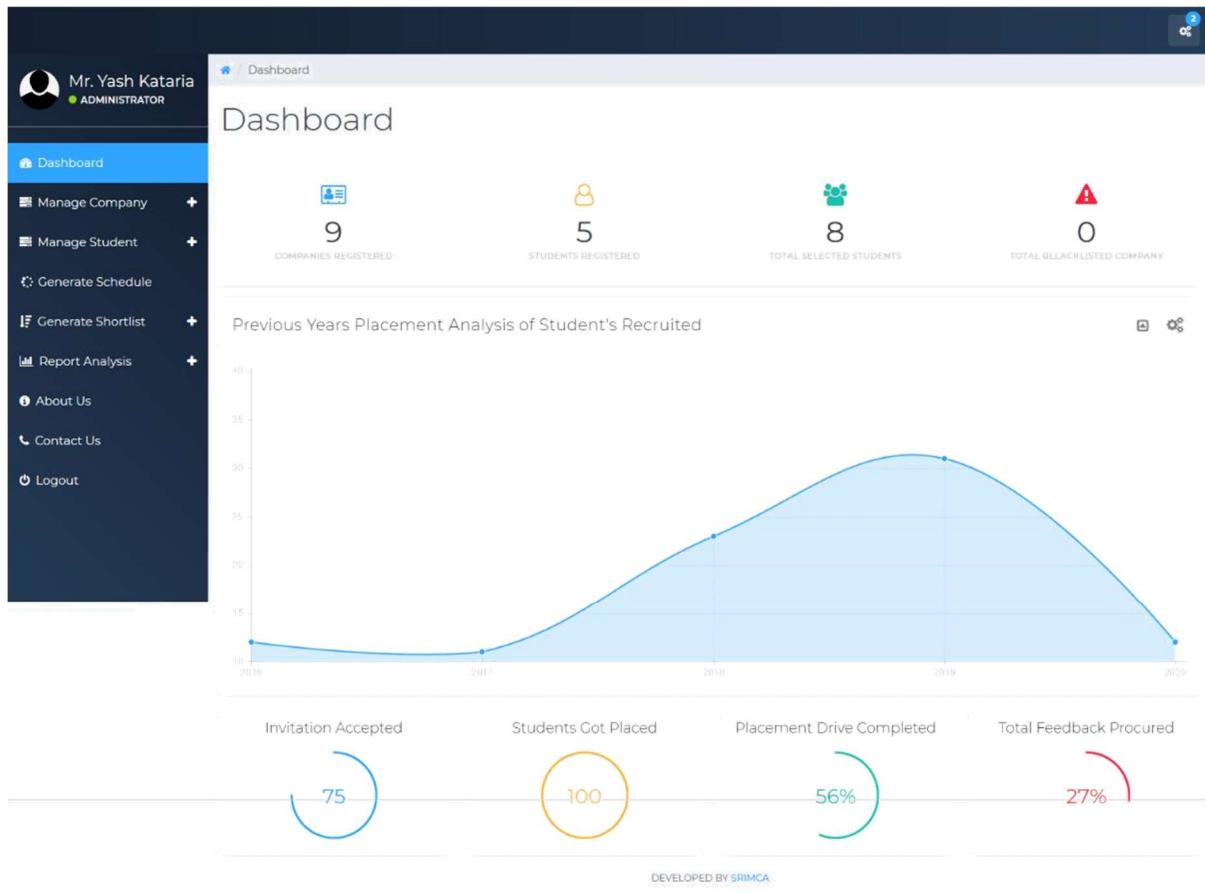


Figure 4.1.1: Admin Dashboard

| View-1 Name | Total Company Registered |
|--------------------|--|
| Description | Display the total number of Registered Company. |
| Data From | tbl_Company_Basic_Details |
| Data To | - |
| View-2 Name | Total Students Registered |
| Description | Display the total number of Registered Students. |
| Data From | tbl_Student_Basic_Details |
| Data To | - |
| View-3 Name | Total Selected Students |
| Description | Display the total number of students |

Placement Management System (Company Module)

| | |
|--------------------|---|
| | Registered |
| Data From | tbl_Interview_Results |
| Data To | - |
| View-4 Name | Highest Stipend |
| Description | Display the highest stipend which Company provide |
| Data From | tbl_Company_Offerings |
| Data To | - |
| View-5 Name | Invitation Accepted |
| Description | Display the total number of Invitation Acceptance by the company From the Invitation Send |
| Data From | tbl_Invitation |
| Data To | - |
| View-6 Name | Students got Placed |
| Description | Display the total number of students which are placed in the Companyss |
| Data From | tbl_Interview_Results |
| Data To | - |
| View-7 Name | Blacklisted Company |
| Description | Display the total number of blacklisted Company |
| Data From | tbl_Company_Blacklist_Status |
| Data To | - |

Placement Management System (Company Module)

4.1.2 Company Dashboard

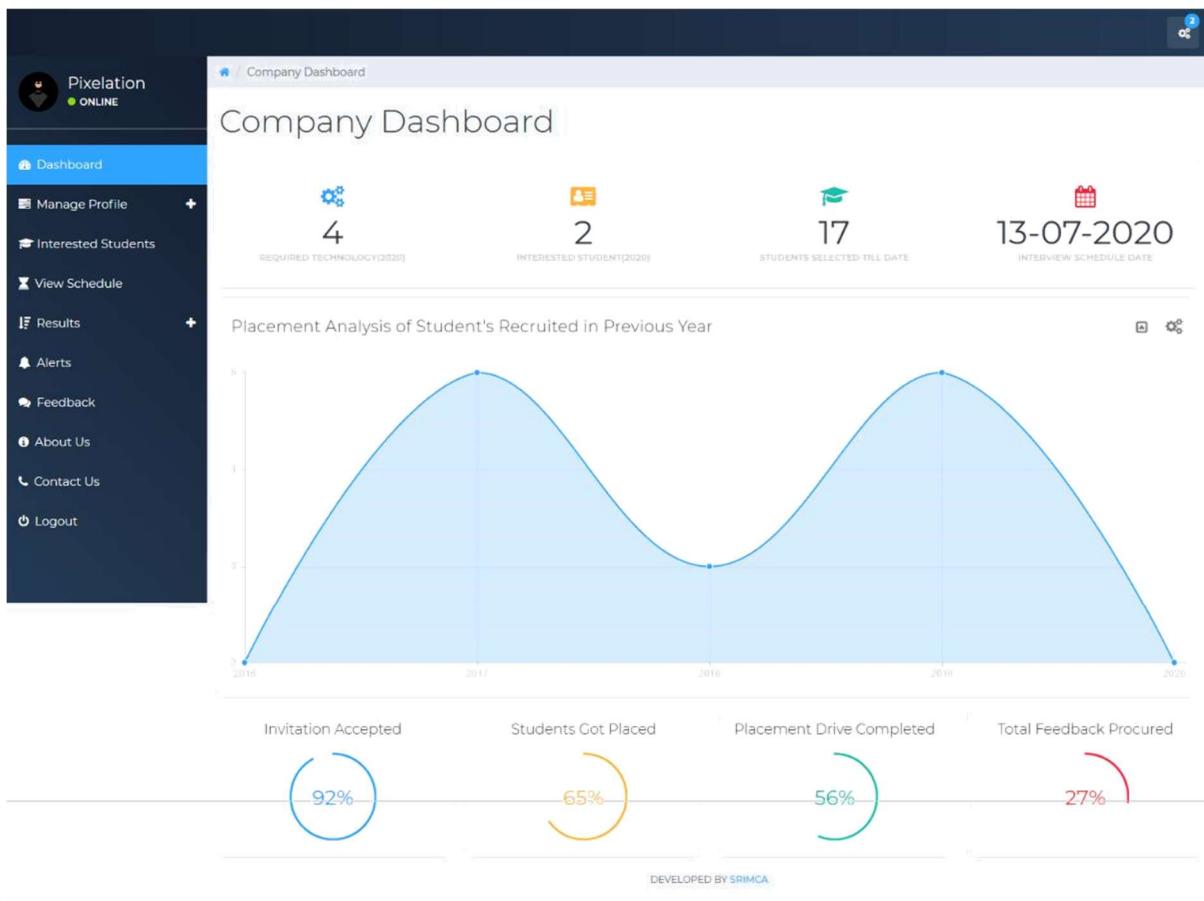


Figure 4.1.2: Company Dashboard

| View-1 Name | Required Technology |
|--------------------|--|
| Description | Display the count of Required Technology by the Company in current year. |
| Data From | tbl_Company_Required_Technology |
| Data To | - |
| View-2 Name | Interested Students |
| Description | Display the total number of Interested Students in current year. |
| Data From | tbl.Student_Shortlist |
| Data To | - |
| View-3 Name | Total Students Selected Till Date |
| Description | Display the total number of students selected till date |
| Data From | tbl_Company_Past_Records |
| Data To | - |
| View-4 Name | Interview Schedule Date |
| Description | Display the date when the Company Arrives for the Interview |
| Data From | tbl_Generate_Schedule |
| Data To | - |

Placement Management System (Company Module)

4.2 User Reports

The screenshot shows a user interface for a placement management system. On the left is a dark sidebar menu with the following items:

- Mr. Yash Kataria (ADMINISTRATOR)
- Dashboard
- Manage Company
- Manage Student
- Generate Schedule
- Generate Shortlist
- Report Analysis (highlighted in blue)
- About Us
- Contact Us
- Logout

In the center, there is a search bar labeled "Select Report:" with the option "Current Year Statistics of Each Company". Below the search bar is a table titled "Current Year Statistics of Each Company" with the following data:

| Company Name | Highest Stipend Offered | Highest Package Offered | Lowest Tenure Offered | No Of Recruited Students |
|------------------|-------------------------|-------------------------|-----------------------|--------------------------|
| Bhagwate Incorp | 9000 | 650000 | 1 | 2 |
| Abdulla Incorp | 20000 | 890000 | 1 | 2 |
| Praneet Infotech | 18000 | 1800000 | 1 | 2 |
| Pixelation | 6900 | 890000 | 1 | 2 |
| Megh Infotech | 6900 | 890000 | 1 | 2 |
| Kunj Infotech | 6700 | 880000 | 1 | 2 |

Figure 4.2.1: Current Year Statistics of Each Company

| Report-1 Description | Current Year Statistics of Each Company. |
|------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Company Name, Highest Stipend Offer, Highest Package Offer, Lowest Tenure Offered, No. of Recruited Students |
| Usage | Admin can able to analyse the current year statistics of each company |

Placement Management System (Company Module)

The screenshot shows the Company Module of the Placement Management System. On the left is a dark sidebar menu with the following items:

- Dashboard
- Manage Company
- Manage Student
- Generate Schedule
- Generate Shortlist
- Report Analysis** (highlighted in blue)
- About Us
- Contact Us
- Logout

The main content area displays a report titled "Select Report: Total Recruited Students By Each Company Uptill Now". The report is presented in a table:

| Company Name | Total Recruited Students |
|------------------|--------------------------|
| Abdulla Incorp | 13 |
| Bhagwate Incorp | 11 |
| Kunj Infotech | 18 |
| Megh Infotech | 18 |
| Pixelation | 17 |
| Praneet Infotech | 12 |

Figure 4.2.2: Total Recruited Students by each company upto now

| Report-2 Description | Total Recruited Students by each company upto now. |
|------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Company Name, TotalRecruited Students |
| Usage | Admin can able to analyse the total recruited students by each company upto now. |

Placement Management System (Company Module)

The screenshot shows a user interface for a placement management system. On the left is a dark sidebar menu with the following items:

- Mr. Yash Kataria (ADMINISTRATOR)
- Dashboard
- Manage Company
- Manage Student
- Generate Schedule
- Generate Shortlist
- Report Analysis** (highlighted in blue)
- About Us
- Contact Us
- Logout

The main content area has a header "Select Report: Previous Years Statistics of Each Company". Below it is a table with the following data:

| Year | Company Name | Highest Stipend Offered | Highest Package Offered | Lowest Tenure Offered | No Of Recruited Students |
|------|------------------|-------------------------|-------------------------|-----------------------|--------------------------|
| 2016 | Pixelation | 8900 | 720000 | 1 | 2 |
| 2016 | Megh Infotech | 5000 | 700000 | 1 | 5 |
| 2016 | Kunj Infotech | 5000 | 700000 | 1 | 5 |
| 2017 | Kunj Infotech | 6600 | 780000 | 1 | 3 |
| 2017 | Megh Infotech | 6000 | 700000 | 1 | 3 |
| 2017 | Pixelation | 4000 | 750000 | 1 | 5 |
| 2018 | Pixelation | 6000 | 830000 | 1 | 3 |
| 2018 | Bhagwate Incorp | 15500 | 550000 | 1 | 4 |
| 2018 | Abdulla Incorp | 15000 | 550000 | 1 | 3 |
| 2018 | Megh Infotech | 6000 | 830000 | 1 | 3 |
| 2018 | Kunj Infotech | 6200 | 830000 | 1 | 3 |
| 2018 | Praneet Infotech | 12000 | 1100000 | 1 | 7 |
| 2019 | Praneet Infotech | 12000 | 1300000 | 1 | 3 |
| 2019 | Kunj Infotech | 5600 | 850000 | 1 | 5 |
| 2019 | Megh Infotech | 5000 | 850000 | 1 | 5 |
| 2019 | Abdulla Incorp | 15000 | 9500000 | 1 | 8 |
| 2019 | Bhagwate Incorp | 7500 | 550000 | 1 | 5 |
| 2019 | Pixelation | 5000 | 850000 | 1 | 5 |
| 2020 | Pixelation | 6900 | 890000 | 1 | 2 |
| 2020 | Bhagwate Incorp | 9000 | 650000 | 1 | 2 |
| 2020 | Abdulla Incorp | 20000 | 890000 | 1 | 2 |
| 2020 | Megh Infotech | 6900 | 890000 | 1 | 2 |
| 2020 | Kunj Infotech | 6700 | 880000 | 1 | 2 |
| 2020 | Praneet Infotech | 18000 | 1800000 | 1 | 2 |

Figure 4.2.3: Previous Year Statistics of Each Company

| Report-3 Description | Previous Year Statistics of Each Company. |
|------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, Company Name, Highest Stipend Offer, Highest Package Offer, Lowest Tenure Offered, No. of Recruited Students |
| Usage | Admin can able to analyse the previous year statistics of each company |

Placement Management System (Company Module)

| Year | Company Name | Highest Package |
|------|------------------|-----------------|
| 2016 | Pixelation | 720000 |
| 2017 | Kunj Infotech | 780000 |
| 2018 | Praneet Infotech | 1100000 |
| 2019 | Abdulla Incorp | 9500000 |
| 2020 | Praneet Infotech | 1800000 |

Figure 4.2.4: Previous Year's Highest Package Offered

| Report-4 Description | Previous Year's Highest Package Offered. |
|------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, Company Name, Highest Package Offer |
| Usage | Admin can able to analyse the previous year statistics of highest package offered. |

| Year | Company Name | Highest Stipend |
|------|-----------------|-----------------|
| 2016 | Pixelation | 8900 |
| 2017 | Kunj Infotech | 6600 |
| 2018 | Bhagwate Incorp | 15500 |
| 2019 | Abdulla Incorp | 15000 |
| 2020 | Abdulla Incorp | 20000 |

Figure 4.2.5: Previous Year's Highest Stipend Offered

Placement Management System (Company Module)

| Report-5 Description | Previous Year's Highest Stipend Offered. |
|-----------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, Company Name, Highest Stipend Offer |
| Usage | Admin can able to analyse the previous year statistics of highest Stipend offered. |

| Company Name | Shortlisted Students | Students Appeared In Interview | Total Attendance (In %) |
|------------------|----------------------|--------------------------------|-------------------------|
| Abdulla Incorp | 5 | 3 | 60 |
| Bhagwate Incorp | 5 | 4 | 80 |
| Pixelation | 2 | 2 | 100 |
| Praneet Infotech | 2 | 1 | 50 |

Figure 4.2.6: Current Year Attendance Report of Each Company

| Report-6 Description | Current Year Attendance Report of Each Company |
|-----------------------------|---|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Company_Name,Shortlisted_Students,Student Appeared in Interview ,Total Attendance |
| Usage | Admin can able to analyse the current year Attendance of Each Company. |

Placement Management System (Company Module)

The screenshot shows the company module interface. On the left is a dark sidebar menu with items like Dashboard, Manage Company, Manage Student, Generate Schedule, Generate Shortlist, Report Analysis (which is selected), About Us, Contact Us, and Logout. The main content area has a header with 'Select Report: Year Wise Reports of Individual Company's' and dropdowns for 'Select Company: Abdulla Incorp' and 'Select Year: 2020'. Below is a table with columns: Year, Company Name, Highest Stipend Offered, Highest Package Offered, Lowest Tenure Offered, and No Of Recruited Students. One row is shown for 2020, Abdulla Incorp, with values 20000, 890000, 1, and 2.

| Year | Company Name | Highest Stipend Offered | Highest Package Offered | Lowest Tenure Offered | No Of Recruited Students |
|------|----------------|-------------------------|-------------------------|-----------------------|--------------------------|
| 2020 | Abdulla Incorp | 20000 | 890000 | 1 | 2 |

Figure 4.2.7: Year Wise Report of Individual Company

| Report-7 Description | Year Wise Report of Individual Company |
|------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, Company Name, Highest Stipend Offer, Highest Package Offer, Lowest Tenure Offered, No. of Recruited Students |
| Usage | Admin can able to analyse the year wise report of individual company. |

The screenshot shows the company module interface. The sidebar and report selection are identical to Figure 4.2.7. The main content area has a header with 'Select Report: Total Number of Time Company's Visited Institute' and a table below. The table has columns: Company Name, Total Number of Time Visited Institute, Highest Stipend Offered, and Highest Package Offered. Six companies are listed: Pixelation (5 years, 8900, 850000), Megh Infotech (5 years, 6900, 890000), Kunj Infotech (5 years, 6700, 880000), Bhagwate Incorp (3 years, 15500, 650000), Abdulla Incorp (3 years, 20000, 9500000), and Praneet Infotech (3 years, 18000, 1800000).

| Company Name | Total Number of Time Visited Institute | Highest Stipend Offered | Highest Package Offered |
|------------------|--|-------------------------|-------------------------|
| Pixelation | 5 Years | 8900 | 850000 |
| Megh Infotech | 5 Years | 6900 | 890000 |
| Kunj Infotech | 5 Years | 6700 | 880000 |
| Bhagwate Incorp | 3 Years | 15500 | 650000 |
| Abdulla Incorp | 3 Years | 20000 | 9500000 |
| Praneet Infotech | 3 Years | 18000 | 1800000 |

Figure 4.2.8 : Total Number of Time Company Visited Institute

Placement Management System (Company Module)

| Report-8 Description | Total Number of Time Company Visited Institute. |
|-----------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, Company Name, Total Number of Time Visited, Highest Stipend Offer, Highest Package Offer |
| Usage | Admin can able to analyse the number of time company has visited institute. |

| Academic Year | No. of Companies Invited | No. of Companies Involved in Placement | Total Students |
|---------------|--------------------------|--|----------------|
| 2020 | 14 | 11 | 69 |
| 2019 | 12 | 8 | 87 |
| 2018 | 12 | 7 | 110 |
| 2017 | 13 | 10 | 125 |
| 2016 | 13 | 7 | 90 |

Figure 4.2.9 : Student-Company Ratio Each Year

| Report-9 Description | Student-Company Ratio Each Year. |
|-----------------------------|--|
| Input Fields | - |
| Name of User interface | GridView |
| Used Relations | - |
| Output Fields | Year, No. of Companies Invited, No. of Companies Involved in Placement, Total Students |
| Usage | Admin can able to analyse the student-company ration each year. |

4.3 Summary

| No. | Reports |
|-----|---|
| 1 | Current Year Statistics of Each Company. |
| 2 | Total Recruited Students by each company uptill now |
| 3 | Previous Year Statistics of Each Company |
| 4 | Previous Year's Highest Package Offered. |
| 5 | Previous Year's Highest Stipend Offered. |
| 6 | Current Year Attendance Report of Each Company |
| 7 | Year Wise Report of Individual Company |
| 8 | Total Number of Time Company Visited Institute |
| 9 | Student-Company Ratio Each Year. |

5. Project Testing

5.1 Evaluation Methods

1. Unit Testing:-

A level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. In object-oriented programming, the smallest unit is a method, which may belong to a base/ super class, abstract class or derived/ child class. The individual program code is tested.

Eg. Manage Company Profile, Generate Schedule and Generate Shortlist etc.

2. Integration Testing:-

A level of software testing where all the individual unit (s) are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing.

Eg. Placement Management System has 3 different module (Company, Student and feedback) after completion of all 3 module this testing is useful to find bugs, defects and error in the System.

The different functionality oriented source code (manage company profile is integrated with generate shortlist and schedule functionality) to identified the dependence as well as co-relation amongst the system functionalities.

3. System Testing :-

A level of software testing where a complete and integrated software is tested. The purpose of this test is to evaluate the system's compliance with the specified requirements. The process of testing an integrated system to verify that it meets specified requirements.

E.g. After Integration Testing of (Placement Management System) System Testing is done to check whether the requirements are satisfied or not.

Checking whether, the functionality related to shortlist generation properly or not.

4. Acceptance Testing:-

A level of software testing where the entire system is tested for acceptability. The purpose of this test is to evaluate the system's compliance with the business requirements and assess whether it is acceptable for delivery. Acceptance testing is Formal testing with respect to user needs, requirements, and business processes conducted to determine.

5.2 Testing Tool specification

Selenium is an open source tool which is used for automating the tests carried out on web browsers (Web applications are tested using any web browser). Only testing of web applications is possible with Selenium. This eliminates repetitive manual testing that consumes lots of time and effort. Selenium conforms to the idea of Agile, and DevOps, which endorse the continuous delivery workflow. Thus, Selenium has been one of the favourite tools for testing as it meets the requirement of quick and reliable testing, which helps enterprises save time and money on testing. Perhaps, creating test cases on Selenium IDE does not require any programming language but when you get to use commands like run Script Selenium IDE is divided into different components, each having their own features and functionalities. We have categorized seven different components of Selenium IDE, which includes:

- Menu Bar
- Tool Bar
- Address Bar
- Test Case Pane
- Test Script Editor Box
- Start/Stop Recording Button
- Log, Reference Pane

Placement Management System (Company Module)

5.3 Testing of Functionality

5.3.1 Invitation Template :-

The screenshot displays a test log for the 'Invitation_Template.aspx' page. The log entries are as follows:

- 1. open http://localhost:50072/Admin%20Module/Invitation_Template.aspx
- 2. verifyText id=ContentPlaceHolder1_txt_Batches_Count OK
- 3. verifyText id=ContentPlaceHolder1_txt_Students_Count OK
- 4. verifyText id=ContentPlaceHolder1_txt_Passing_Month OK

'Placement_Management_System' completed successfully.

Figure 5.3.1.1: Invitation Template Testing

| Sr.No | Test Description | Input Values | Expected Results | Actual Results | Pass/Fail |
|-------|----------------------|--------------|------------------------------------|------------------------------------|-----------|
| 1 | Check batches Count | 10 | Email Send Successfully | Email Send Successfully | Pass |
| 2 | Check Students Count | -20 | Please Enter valid Students counts | Please Enter valid Students counts | Pass |
| 3 | Check Passing Month | Apr-2018 | Email Send Successfully | Email Send Successfully | Pass |

Placement Management System (Company Module)

5.3.2 :- Company Registration :-

Project: Placement_Management_System*

Executing + http://localhost:50072/Admin%20Module/Admin_Manage_Profile.aspx?Company_Id=108

| Command | Target | Value |
|--------------------------|--|-------|
| 1 open | http://localhost:50072/Admin%20Module/Admin_Manage_Profile.aspx?Company_Id=108 | |
| 2 verify element present | id=ContentPlaceHolder1_lbl_Email | |
| 3 verify element present | id=ContentPlaceHolder1_lbl_Company_Name | |
| 4 verify element present | id=ContentPlaceHolder1_ddl_State | |

Runs: 1 Failures: 0

Log Reference

```
Running 'Placement_Management_System'
1. open on http://localhost:50072/Admin%20Module/Admin_Manage_Profile.aspx?Company_Id=108 OK
2. verifyElementPresent on id=ContentPlaceHolder1_lbl_Email OK
3. verifyElementPresent on id=ContentPlaceHolder1_lbl_Company_Name OK
4. verifyElementPresent on id=ContentPlaceHolder1_ddl_State OK
'Placement_Management_System' completed successfully
```

Figure 5.3.1.2: Company Basic Detail Testing

| Sr.No | Test Description | Input Values | Expected Results | Actual Results | Pass/Fail |
|-------|-------------------------------|------------------------|---------------------------------|---------------------------------|-----------|
| 1 | Check Email Id of the Company | Pixelation12@gmail.com | Registered Successfully | Registered Successfully | Pass |
| 2 | Check Company Name | -Pixelation | Please Enter Valid Company Name | Please Enter Valid Company Name | Pass |
| 3 | Check Company State | Gujarat | Registered Successfully | Registered Successfully | Pass |

Placement Management System (Company Module)

5.3.3:- Company Offerings :-

The screenshot shows the QTP Test Log interface. At the top, it says "Project: PMS". Below that is a toolbar with icons for opening files, saving, and running tests. The URL "http://localhost:50072" is entered in the address bar. The main area displays a test table:

| | Command | Target | Value |
|---|------------------------|--|-------|
| 1 | open | /Company%20Module/Company_Update_Profile.aspx | |
| 2 | verify element present | id=ContentPlaceHolder1_btn_Company_Basic_Details_View | |
| 3 | verify element present | id=ContentPlaceHolder1_btn_Company_Offering_Details_View | |
| 4 | verify text | id=ContentPlaceHolder1_txt_Contact_Number | |

Below the table are four input fields: "Command", "Target", "Value", and "Description". At the bottom, there are tabs for "Log" (which is selected) and "Reference". The log section shows the execution details:

- Running 'Placement_Management_System'
- 1. open on /Company%20Module/Company_Update_Profile.aspx OK 15:02:29
- 2. verifyElementPresent on id=ContentPlaceHolder1_btn_Company_Basic_Details_View OK 15:02:29
- 3. verifyElementPresent on id=ContentPlaceHolder1_btn_Company_Offering_Details_View OK 15:02:30
- 4. verifyText on id=ContentPlaceHolder1_txt_Contact_Number OK 15:02:30

At the very bottom of the log, it says "moz-extension://28f02b05-1a5d-4570-86c5-030122486057/index.html# 15:02:30".

Figure 5.3.1.3: Company Criteria Offering Testing

| Sr.No | Test Description | Input Values | Expected Results | Actual Results | Pass/Fail |
|-------|--|-----------------------|-------------------------------|-------------------------------|-----------|
| 1 | Check Button of the Company Basic Details | - | Button Exists | Button Exists | Pass |
| 2 | Check Button of the Company Offering Details | - | Button Exists | Button Exists | Pass |
| 3 | Check Contact Number | +91 814004848 9 | Criteria Updated Successfully | Criteria Updated Successfully | Pass |

Placement Management System (Company Module)

5.3.4:- Company Post Results :-

Project: Placement_ManagementSystem*

Executing * http://localhost:50072/Company%20Module/Company_Post_Results.aspx

| Command | Target | Value |
|--------------------------|---|-------|
| 1 open | http://localhost:50072/Company%20Module/Company_Post_Results.aspx | |
| 2 verify element present | id=ContentPlaceHolder1_btn_Submit | |
| 3 verify text | id=ContentPlaceHolder1_GridView1_Final_Stipend_0 | |
| 4 verify text | id=ContentPlaceHolder1_GridView1_Final_Tenure_1 | |
| 5 verify editable | id=ContentPlaceHolder1_GridView1_Final_Package_0 | |

Command Target Value

Runs: 1 Failures: 0 Description

Log Reference

```

1. open on http://localhost:50072/Company%20Module/Company_Post_Results.aspx OK 13:34:57 ^
2. verifyElementPresent on id=ContentPlaceHolder1_btn_Submit 13:34:57
3. verifyText on id=ContentPlaceHolder1_GridView1_Final_Stipend_0 OK 13:34:58
4. verifyText on id=ContentPlaceHolder1_GridView1_Final_Tenure_1 OK 13:34:59
5. verifyEditable on id=ContentPlaceHolder1_GridView1_Final_Package_0 OK 13:34:59
'Placement_Management_System' completed successfully 13:34:59 ^

```

Figure 5.3.1.4: Company Post Results Testing

| Sr.No | Test Description | Input Values | Expected Results | Actual Results | Pass/Fail |
|-------|--|--------------|----------------------|--------------------------|-----------|
| 1 | Check Button of the Company Post Results | - | Button Exists | Button Exists | Pass |
| 2 | Check Final Stipend | 15000 | Updated Successfully | Updated Successfully | Pass |
| 3 | Check Final Package | 200000 | Updated Successfully | Updated Successfully | Pass |
| 4 | Check Final Tenure | 10 | Updated Successfully | Updated Not Successfully | Fail |

Placement Management System (Company Module)

5.3.5 :- Admin Interview Attendance :-

The screenshot shows the QTP Test Log interface for a test named 'PMS'. The log displays four test steps: 'open' (targeted at the URL), 'verify element present' (targeted at a button), 'verify editable' (targeted at a dropdown list), and 'verify text' (targeted at a grid view cell). All steps are marked as 'OK'. The log also shows the execution details: 1 run, 0 failures, and a completion message: "'PMS' completed successfully'".

| Run ID | Step | Target | Status |
|--------|------------------------|---|--------|
| 1 | open | http://localhost:50072/Admin%20Module/Admin_Interview_Attendance.aspx | OK |
| 2 | verify element present | id=ContentPlaceHolder1_btn_Submit | OK |
| 3 | verify editable | id=ContentPlaceHolder1_ddl_Company_Name_List | OK |
| 4 | verify text | id=ContentPlaceHolder1_GridView1_lbl_Status_0_1_0 | OK |

Log:

```

Running 'PMS'
1. open on http://localhost:50072/Admin%20Module/Admin_Interview_Attendance.aspx OK
2. verifyElementPresent on id=ContentPlaceHolder1_btn_Submit OK
3. verifyEditable on id=ContentPlaceHolder1_ddl_Company_Name_List OK
4. verifyText on id=ContentPlaceHolder1_GridView1_lbl_Status_0_1_0 OK
'PMS' completed successfully
    
```

Figure 5.3.1.5: Admin Interview Attendance Testing

| Sr.No | Test Description | Input Values | Expected Results | Actual Results | Pass/Fail |
|-------|---|--------------|----------------------|----------------------|-----------|
| 1 | Check Status of Students whether the Student is Present or Absent | Yes | Updated Successfully | Updated Successfully | Pass |
| 2 | Check whether the value of Company Name List in Dropdown is Editable or not | Pixelation | Updated Successfully | Updated Successfully | Pass |
| 3 | Check Button of the Interview Attendance | - | Button Exists | Button Exists | Pass |

Placement Management System (Company Module)

5.4 Summary

| Sr.No | Test Case Name |
|-------|------------------------------------|
| 1 | Invitation Template Testing |
| 2 | Company Basic Detail Testing |
| 3 | Company Criteria Offering Testing |
| 4 | Company Post Results Testing |
| 5 | Admin Interview Attendance Testing |

6 Future scope :-

- Notification can be sent on mobile numbers along with emails.
- Integration with other modules(Student and Feedback).
- Chat bot facilities for any enquiries.
- Can be converted into a mobile application.
- Biometric logins can be installed.

7. Learning during Project Work

Project is the most interesting and challenging activity we never had before. There was much confusion and problems faced at initial level to create a web-based system but ourguide, Ms. Poonam Godhwanihad always helped in showing the correct direction to solve our queries.

It is essential to develop research skills, intelligent behaviors and thinking strategies. Occasions will arise where we have to deal with controversies, to identify and solve problems, to create new ideas, or to make difficult decisions. We learnt about web-based System and objectives, how to work on Placement Management System(Company Module) etc. We learnt about how to solve issues to meet requirement of our project, how to face any problem and get a proper solution of that.

Our team got an opportunity to learn many new things, face different difficulties and get best feasible solution to it.

8. References

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