#### **ABSTRACT**

The main objective of the portfolio management system is to design and develop a web service which is useful for the job seekers and the job providers to meet.

Here, the database is used to collecting all the personal information of the candidate for generating their resume profile on the portal. The system admin will generate a report according to the company need and requirements.

#### 1. INTRODUCTION

#### 1.1 Project Description

- Portfolio Management system refers to a building a strong resume for the candidate who are seeking the jobs online.
- This system introduced the way of hiring the employees for the organization that contains all the information of the employees and according to their skill and job requirements, they get selected in the particular post.
- The purpose of Portfolio management is the selection, prioritization and control of an organization's programmed and projects, in line with its strategic objectives and capacity to deliver.

## 2. ENVIRONMENTAL DESCRIPTION

# 2.1 Project Profile

Project Information	Description
Project Title	Portfolio Management System
Application Type	Web Application
Guided By	Asst. Prof. Rushabh Shah
Group Size	2
Team Members	<ul><li>Sagar M. Pipaliya 19MCA028</li><li>Nikunj N. Katariya 19MCA010</li></ul>

# 2.2 Tools and Technologies

Tools and Technology	Description
Front End	PHP (7.2)
Back End	MySQL (8.0)
Web Server	Apache XAMPP
Other tools	<ul> <li>MS Word and PowerPoint (2016)</li> <li>Sublime text 3 (3.2.2)</li> <li>Creatly (for diagrams)</li> </ul>

#### 3. PROPOSED SYSTEM

#### 3.1 Scope

Portfolio system is a dynamic and continuous process. Following are the scopes of the portfolio management:

- Monitoring the performance of the portfolio by incorporating the latest conditions.
- Identifying the objectives, preferences and constraints.
- Compare with the latest targets and achievements.
- There is no need of keeping a physical resume for the candidate.
- Users have their own login ID and password, with which they can secure their documents.
- If a wrong password is given three times in succession, that user account will be locked and the user will not be able to use it.
- Once provided with internet access, users can take part in the system from everywhere.

#### 3.2 Project Modules

#### User: -

- Users have to register into the system first.
- Users can provide their achievements, resume and skills in extra details.
- Users have to login into the system.
- Users can view their portfolio according to their details.
- Users can change their details in the system.
- Users can provide feedback to the organizations.

#### Admin: -

- Admin have to login in the system.
- Admin can view/block the latest registered details.
- Admin can filter the details.
- Admin can search the candidate by their skills, name, achievements and degree.
- Admin can select appropriate candidates.
- Admin can generate the reports.

#### 3.4 System Advantages

- Building a resume online may saves your time that can be utilized in a better way.
- Candidates may instantly customize their details in the one click or add some new details with the same.
- The site built a confidence to boost since you can make your resume professional and you may able to impress the recruiters with your resume.
- Since admin can generate reports the process of selecting candidates will be easy.
- System is used to make smart and effective decisions for the organizations while selecting a candidate.
- System provides more accurate and user performance data.
- The system is helpful to achieve the better productivity in the organization.

### 3.3 System Requirements

### 1. Functional Requirements: -

- Administrator: Responsible for managing clients of the system, taking system backup, generating reports, maintaining organization whole details.
- **Manage Users:** The administrator can manage the user information and admin can mail and send the details to the appropriate user.
- **Maintain Details:** The administrator maintains entire details of the system including details of the users.

- **Taking System Backup:** The administrator takes backup of the database in order to prevent loss of the data on system crashes. He takes backup of the entire database in a particular section.
- **Generate Reports:** Responsible for checking the logs of different system users for auditing and maintaining the whole system.
- **Use Registration & Login:** The first thing is to register yourself by giving proper mail id and password then move forward to login into the system.
- **Filtering as per need:** The administrator can filter the candidate & can view the information related to the filtering.

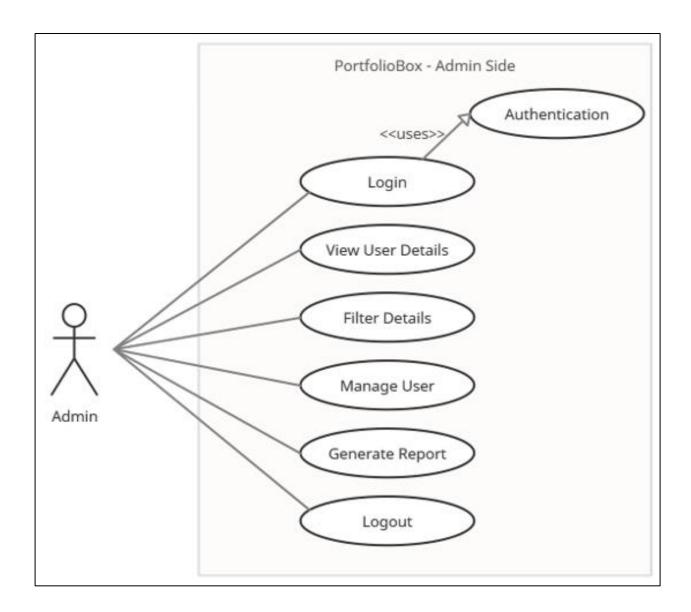
#### 2. Non - Functional Requirements: -

- **User Interactive:** The response of the website should be high and the website should behave as per the user action. Users should be acknowledged in the form of visual changes or feedback on the site to enhance the interaction. Portal should be maintained across all the web pages.
- **Security:** Secure login option to the users to avoid unauthorized access to the system and the information. Advanced encryption algorithms must be integrated in the site to avoid misuse of the data sets.
- **Reliability:** Portal should provide the users with valid information at all times.
- **Business Rules:** This requirement contains all the rules and regulations on behalf of the system.

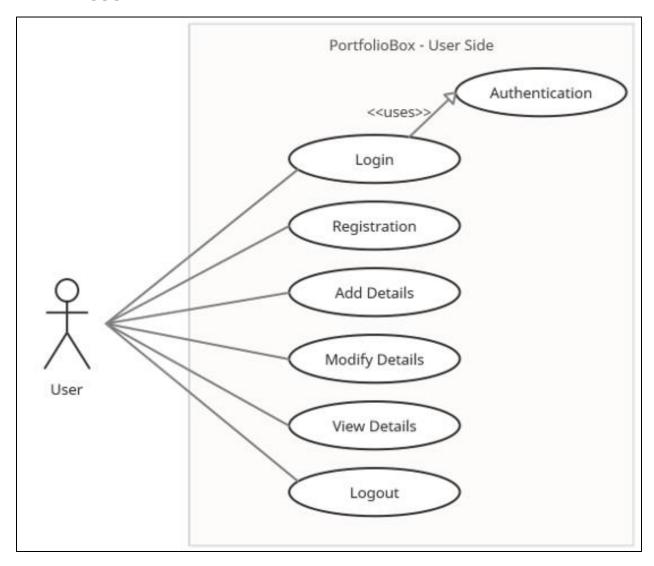
### 4. DETAIL PLANNING

## 4.1 Use case diagram

Admin

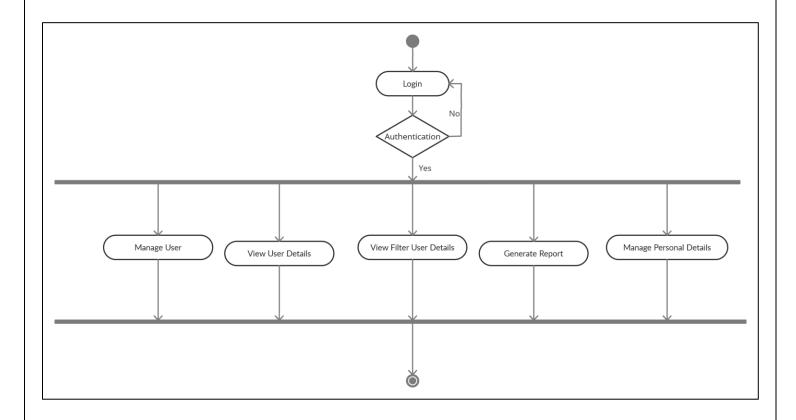


### User

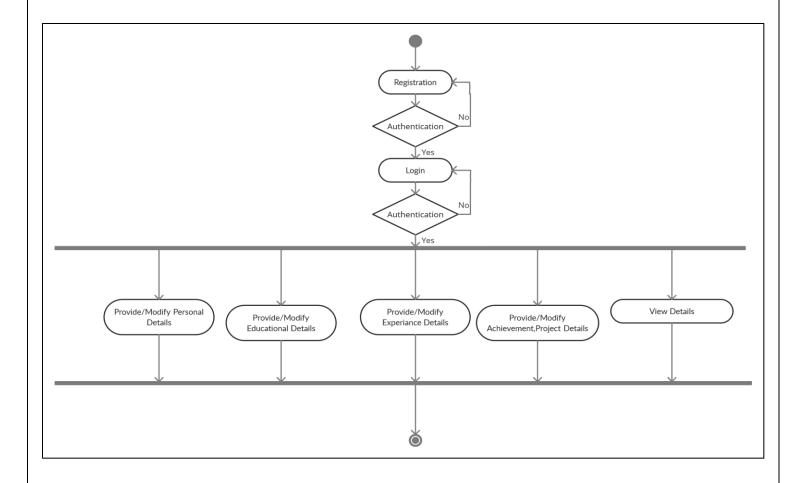


# 4.2 Activity Diagram

### • Admin

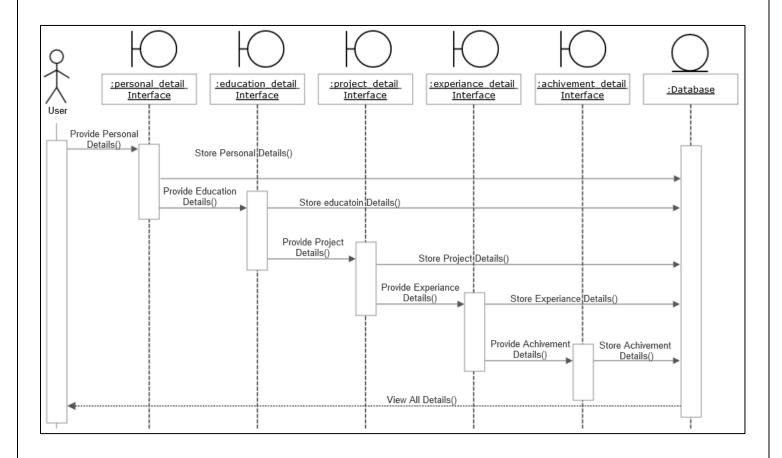


### User

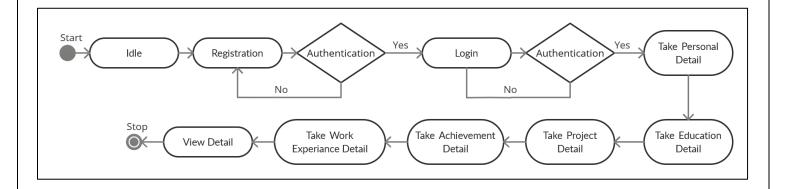


## 4.3 Sequence Diagram

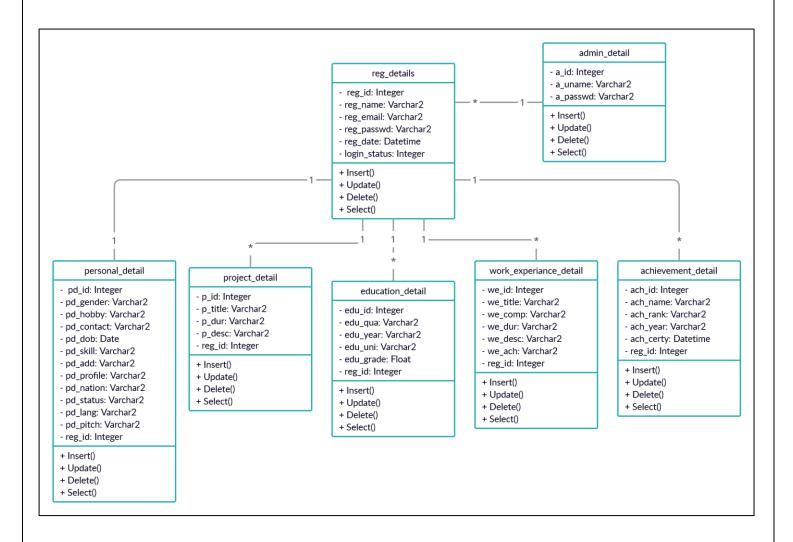
• User: -



# 4.4 State Chart Diagram

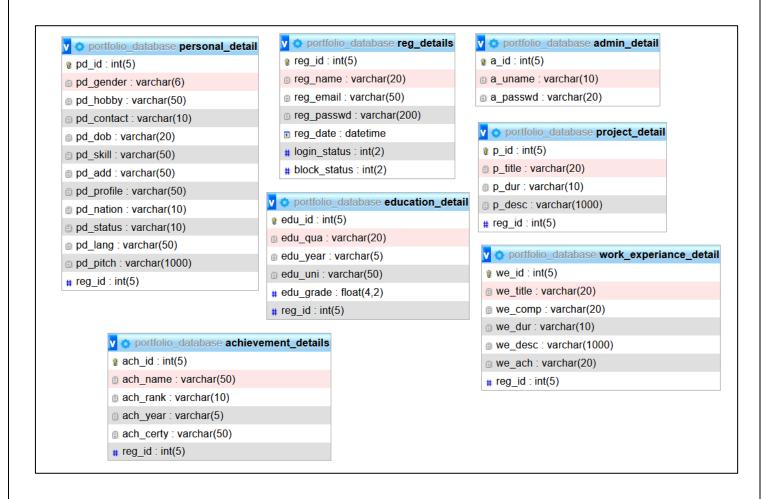


### 4.5 Class Diagram



#### **5. SYSTEM DESIGN**

### 5.1 Database Design



# **5.2 Data Dictionary**

# • Reg\_details

No	Columns	Data Type	Size	Null	Details
1.	reg_id	Integer	5	No	Primary key
2.	reg_name	Varchar2	20	No	Name of user
3.	reg_email	Varchar2	20	No	Email of user
4.	reg_passwd	Varchar2	20	No	Password set by the user
5.	reg_date	Datetime		No	Registration Date of User
6.	login_status	Integer	2	No	Login Status
7.	block_status	Integer	2	No	User blocking status

# • Admin\_details

No	Columns	Data Type	Size	Null	Details
1.	a_id	Integer	5	No	Primary key
2.	a_uname	Varchar2	20	No	Username of admin
3.	a_passwd	Varchar2	20	No	Password of admin

# Personal\_details

No	Columns	Data Type	Size	Null	Details
1.	pd_id	Integer	5	No	Primary key
2.	pd_gender	Varchar2	2	No	Gender of user
3.	pd_hobby	Varchar2	50	No	Hobbies of user
4.	pd_contact	Varchar2	10	No	Contact detail of a user
5.	pd_dob	Date		No	User Birthdate
6.	pd_skill	Varchar2	50	No	Technical skills of user
7.	pd_add	varchar2	50	No	Address of a user
8.	pd_profile	varchar2	50	No	Profile photo of user
9.	pd_nation	varchar2	10	No	Nationality of user
10.	pd_status	varchar2	10	No	Marital status of user
11.	pd_lang	varchar2	50	No	Languages known
12.	pd_pitch	varchar2	50	No	Short pitch about user

# • Educational\_details

No	Columns	Data Type	Size	Null	Details
1.	edu_id	Integer	5	No	Primary key
2.	edu_qua	Varchar2	20	No	Qualification details
3.	edu_year	Varchar2	5	No	Passing Year
4.	edu_uni	Varchar2	50	No	Name of School/University
5.	edu_grade	float	4,2	No	Grade of user
6.	reg_id	Integer	5	No	Reference from reg_detail

# • Achievement\_details

No	Columns	Data Type	Size	Null	Details
1.	ach_id	Integer	5	No	Primary key
2.	ach_name	Varchar2	50	No	Name of Achievement
3.	ach_rank	Varchar2	10	No	Rank of user achievement
4.	ach_year	Varchar2	5	No	Year of achievement
5.	ach_certy	Varchar2	50	No	Certification of user
6.	reg_id	Integer	5	No	Reference from reg_detail

# • Work\_experiance\_detail

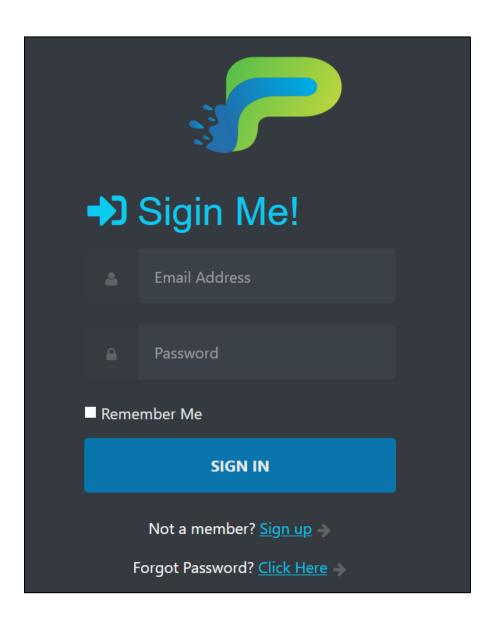
No	Columns	Data Type	Size	Null	Details
1.	we_id	Integer	5	No	Primary key
2.	we_title	Varchar2	20	No	Position of user
3.	we_comp	Varchar2	20	No	Name of the company
4.	we_dur	Varchar2	10	No	Working duration
5.	we_desc	Varchar2	50	No	Company profile
6.	we_ach	Varchar2	20	No	Achievement of a user
7.	reg_id	Integer	5	No	Reference from reg_detail

# • Project\_details

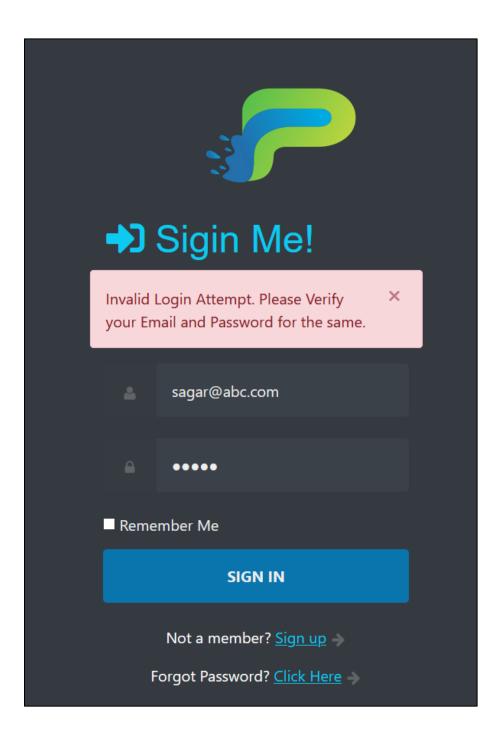
No	Columns	Data Type	Size	Null	Details
1.	p_id	Varchar2	5	No	Primary key
2.	p_title	Varchar2	20	No	Title of a project
3.	p_dur	Varchar2	10	No	Project duration
4.	P_desc	Varchar2	50	No	Project description
5.	reg_id	Varchar2	5	No	Reference from reg_detail

## 5.3 Input/Output Design

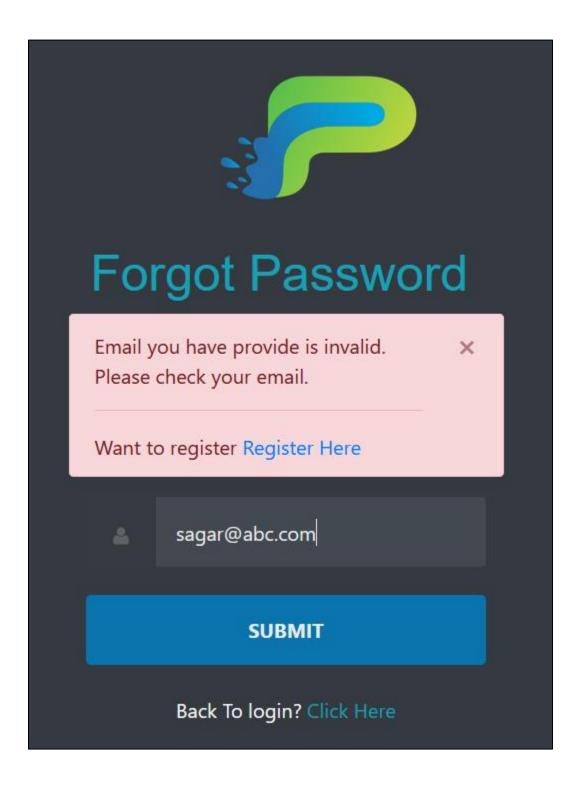
- User side: -
- → **Login Page**



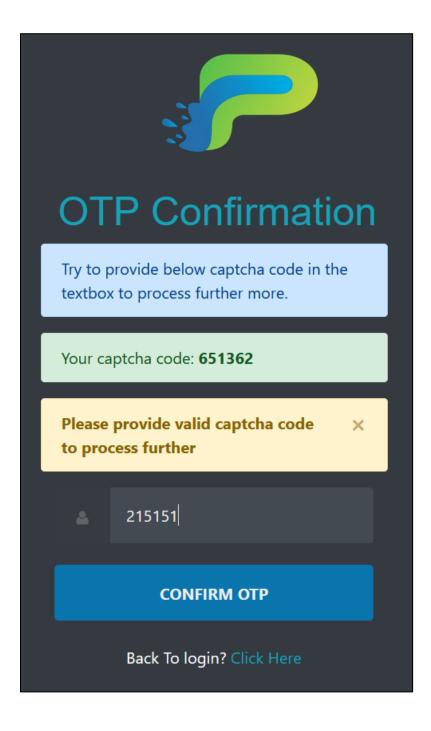
Login with invalid email and password



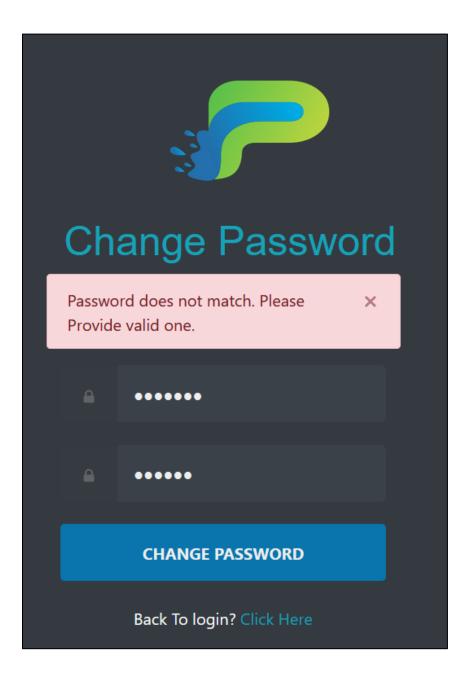
• Forgot Password with some validations



## Invalid captcha code provide

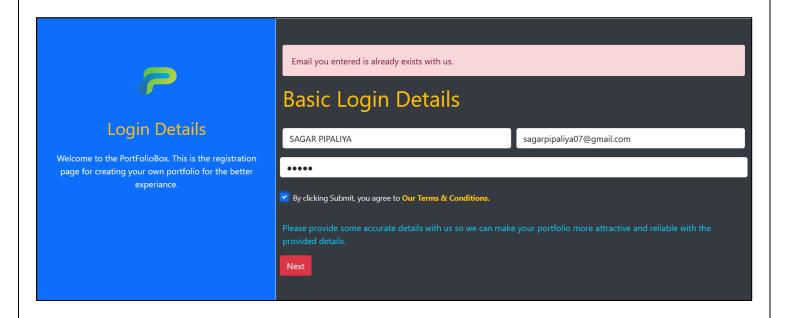


## • Invalid confirm password

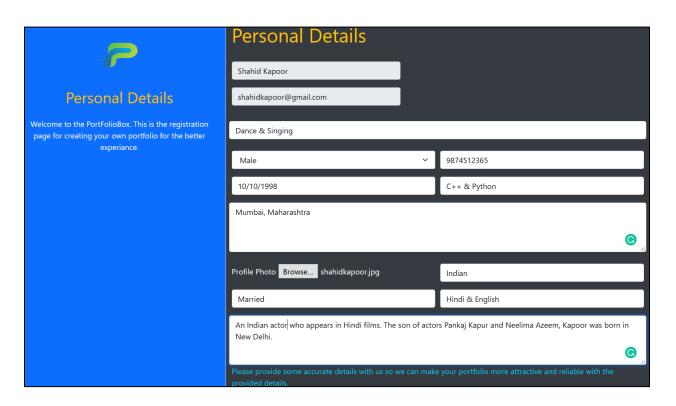


### • Registration Form

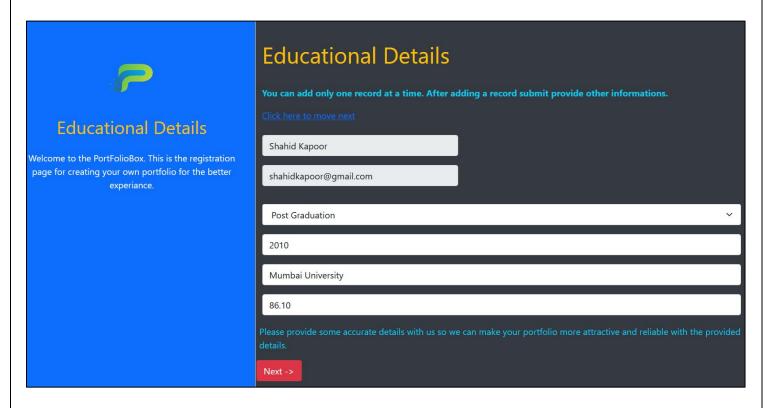
### o Email address already exists



### Personal Details filling

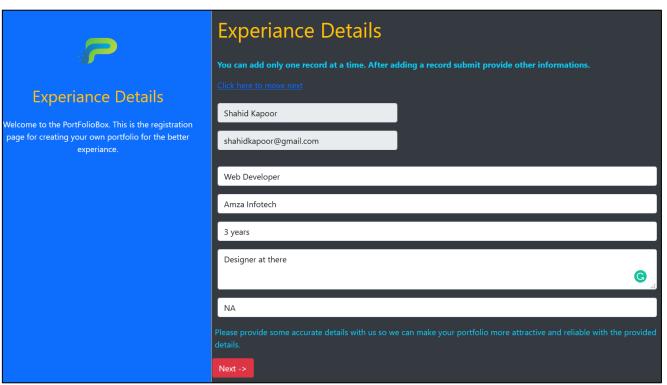


#### Educational Details

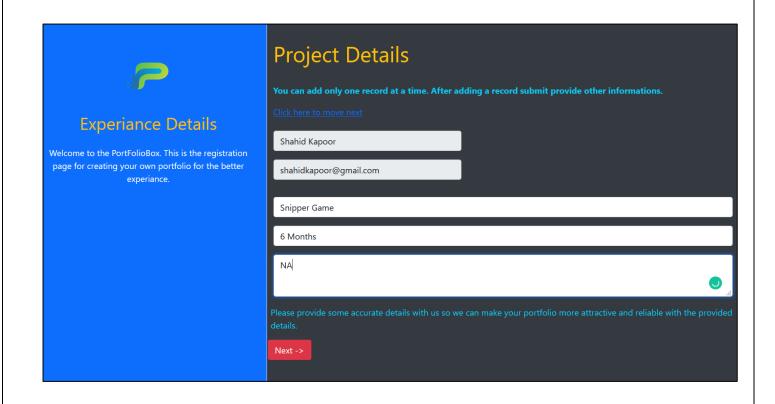


### Experience Details

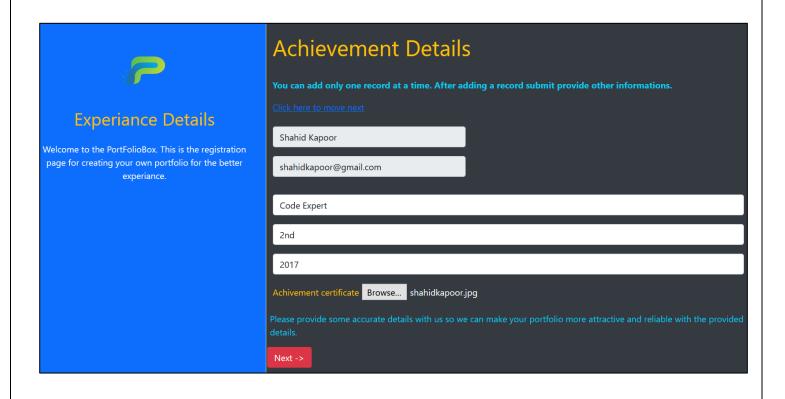
0



## Project Details

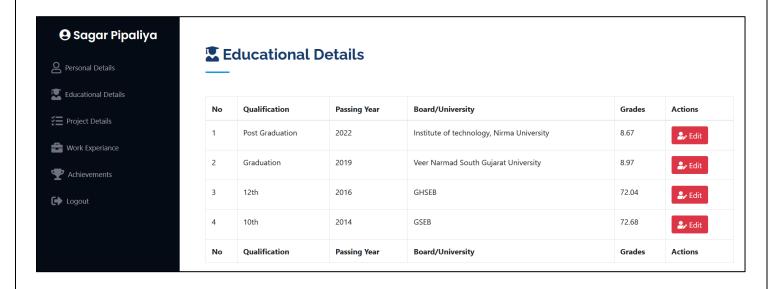


#### Achievement Details

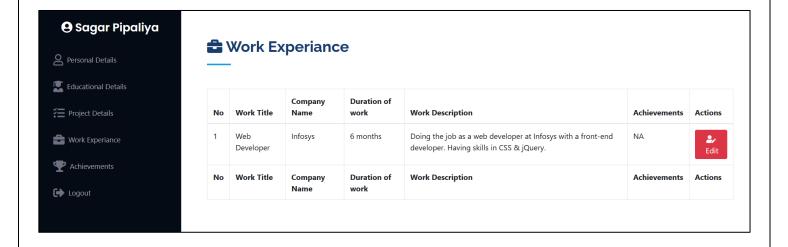


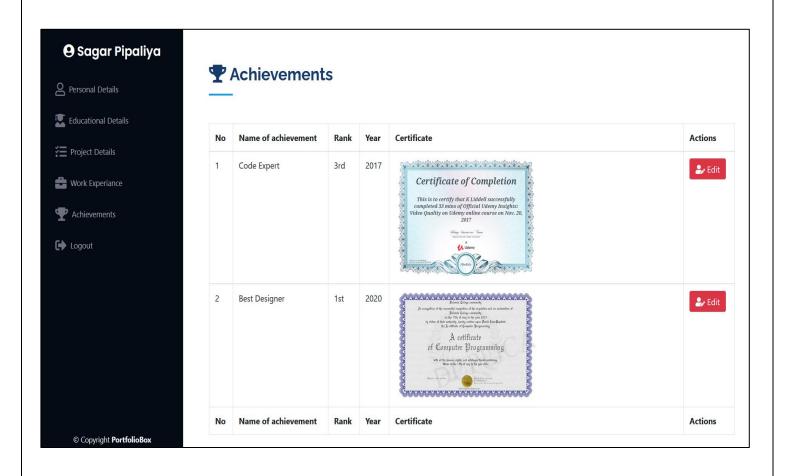
### • Final Resume Page



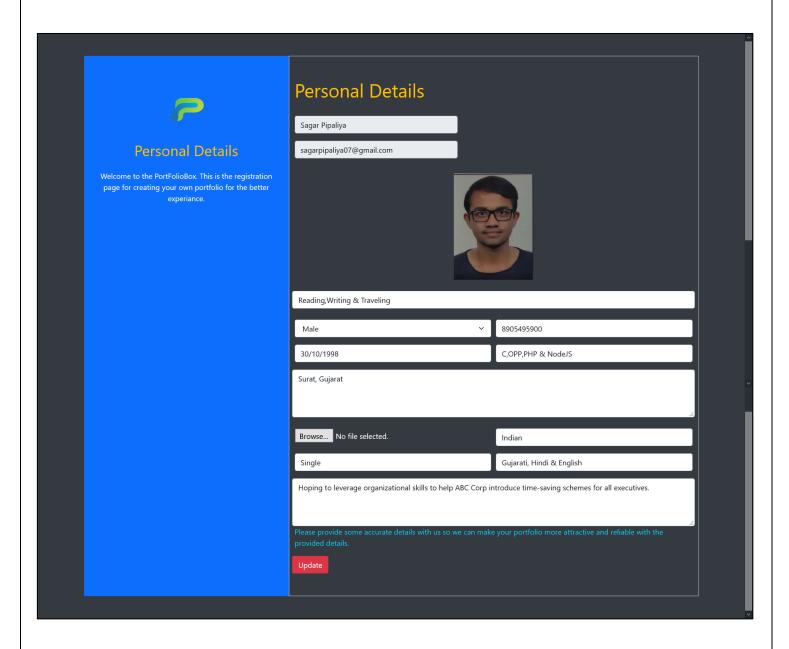




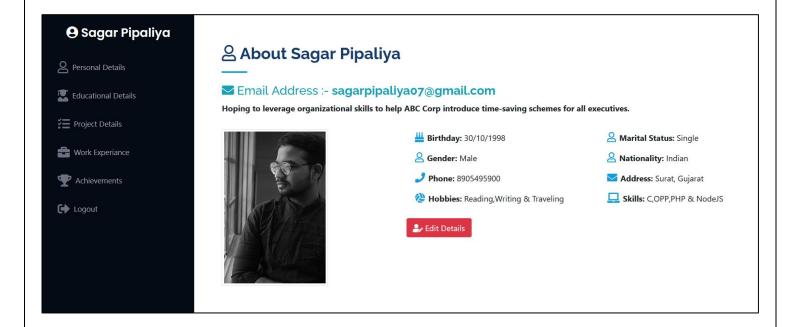




## • Changing Details in Resume

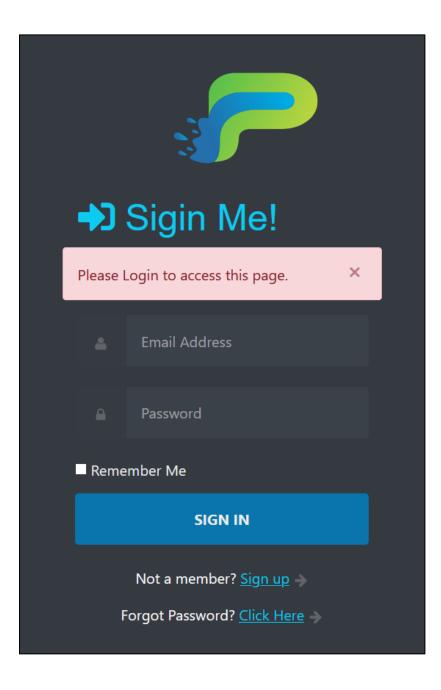


### Updating the details

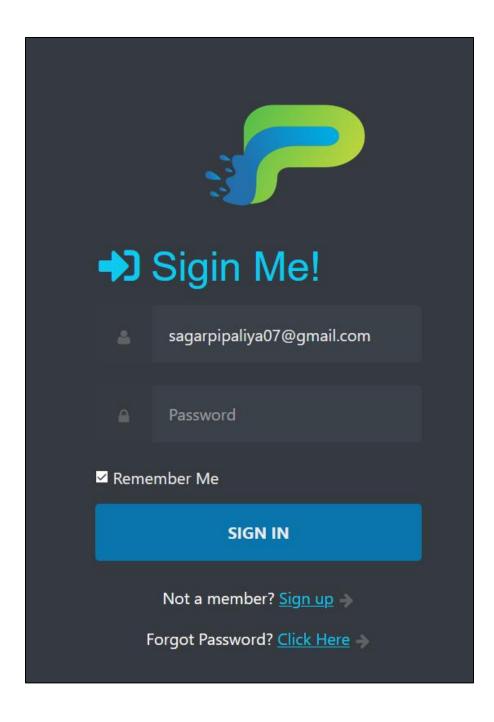


- As we can clarify that profile photo of the user has been updated with the profile and database as well.
- As follows the update procedure, all the details would be updated with the same result as shown in the image.

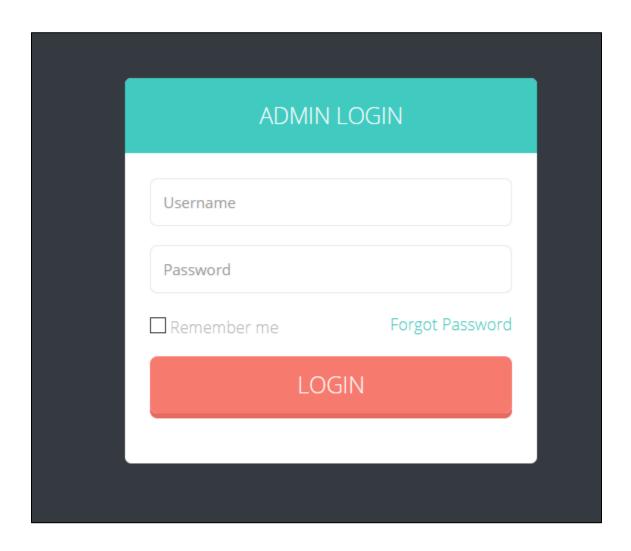
• Session maintaining at user side



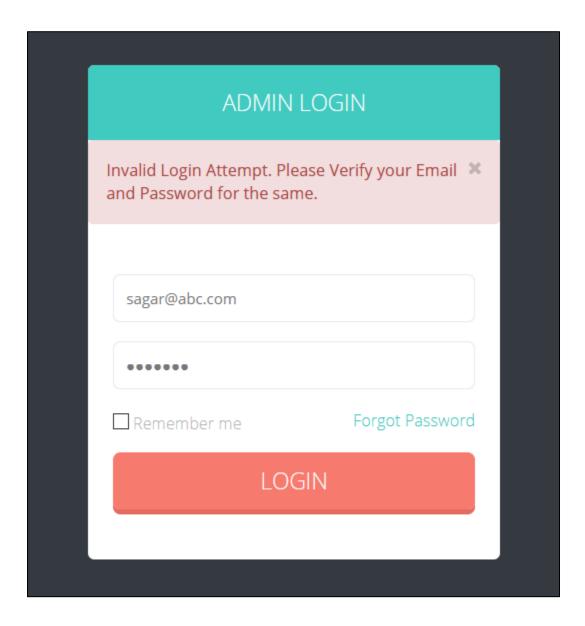
## • Remember me functionality



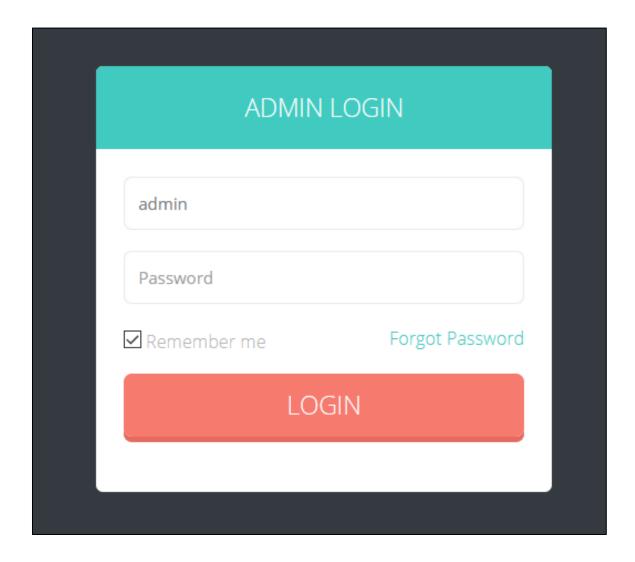
- Admin Side
- Admin Login Design



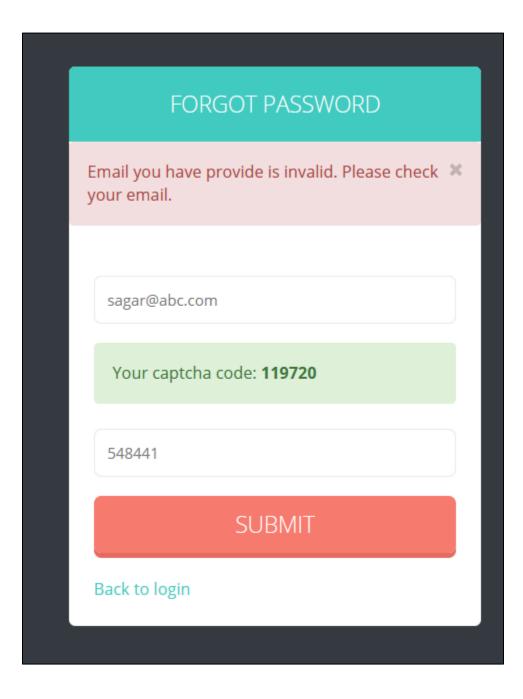
## o Invalid access to admin login



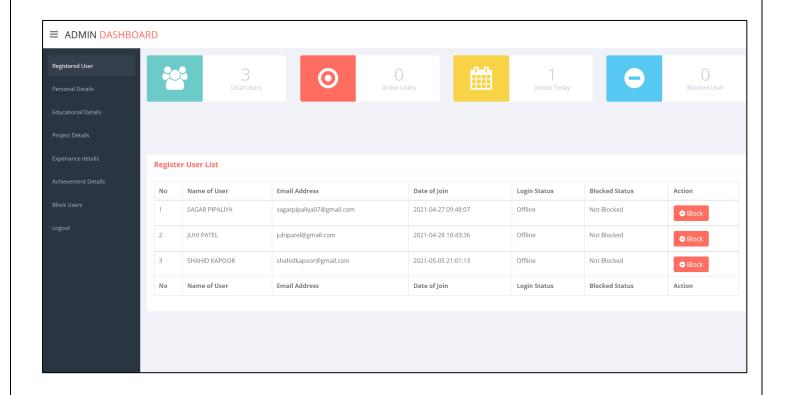
## o Remember Me



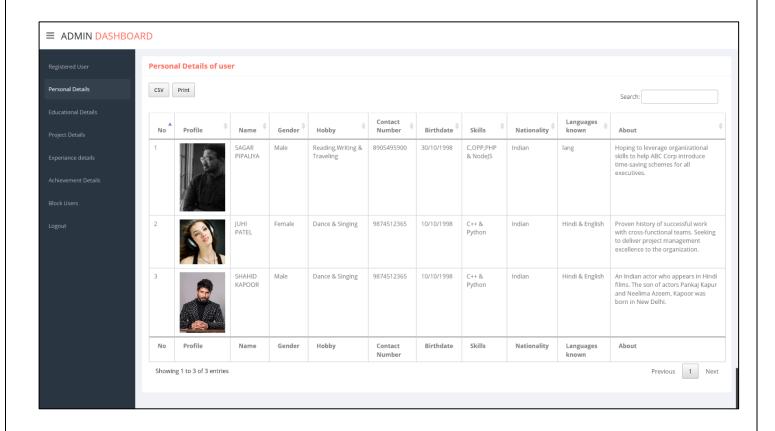
## Forgot password (Invalid)



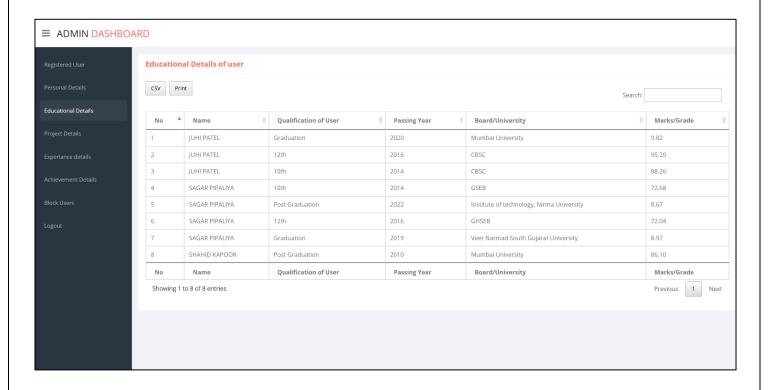
### Entire Admin Dashboard



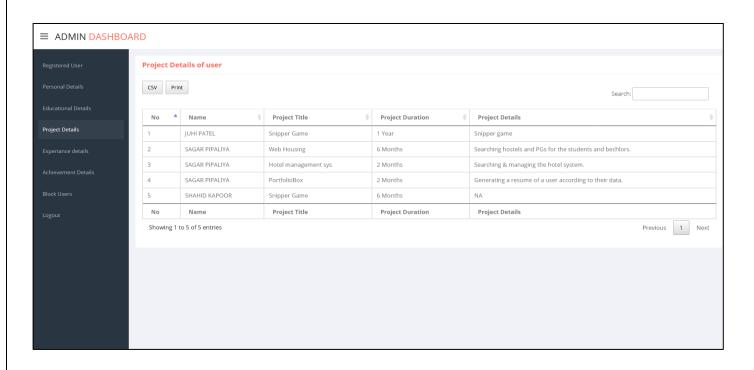
#### Personal Details of user



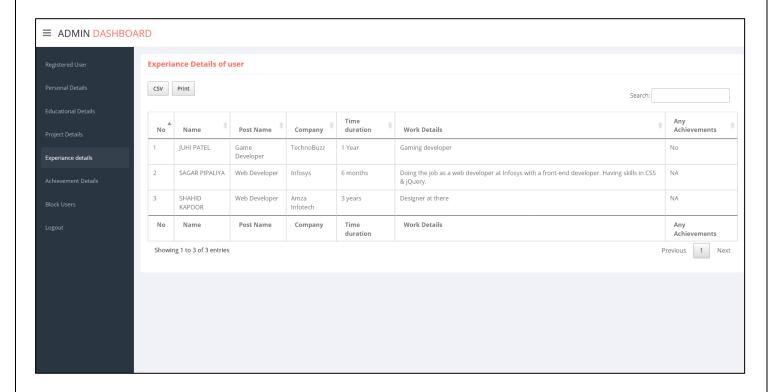
#### Educational Details of user



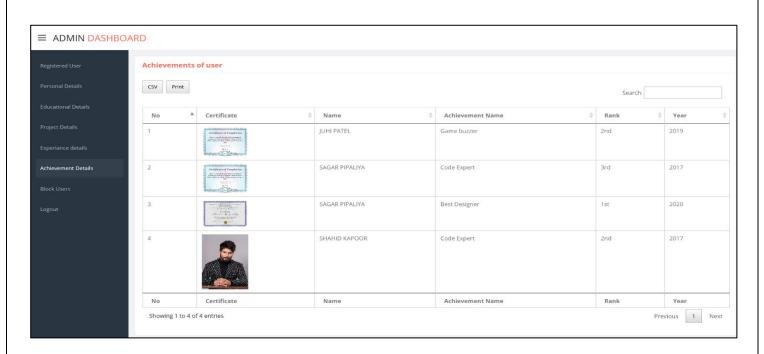
## Project Details of user



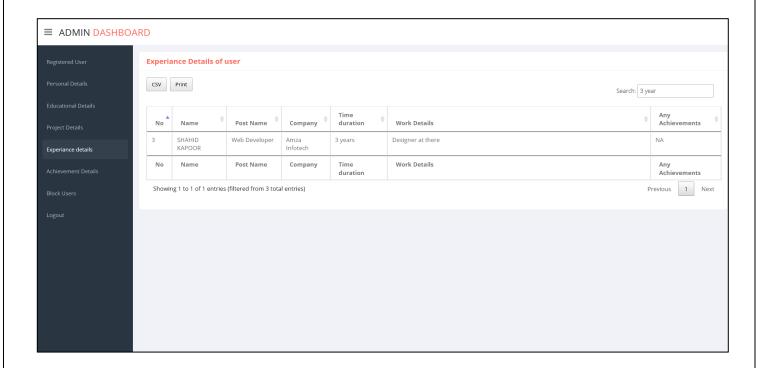
## User Experience details



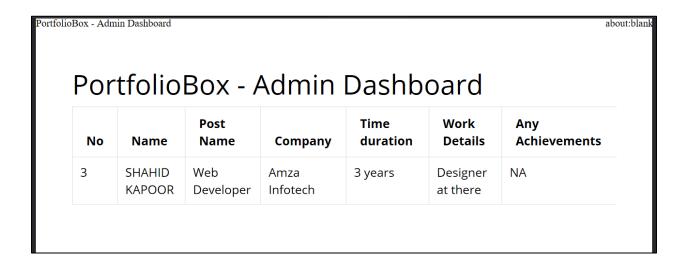
#### User Achievement details



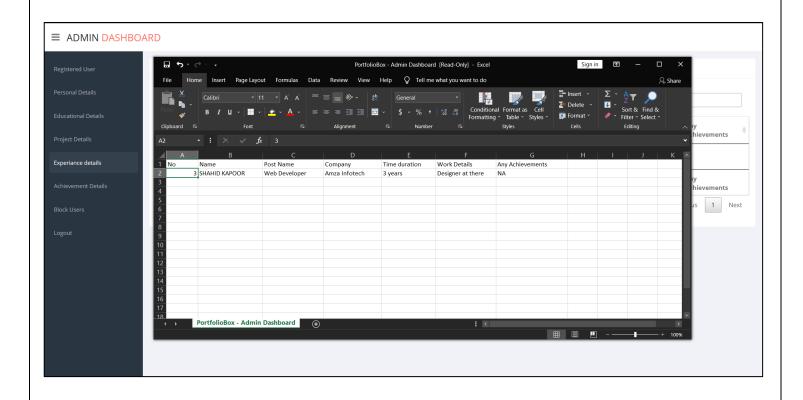
### Generating report of a person who's having 3 years of experience



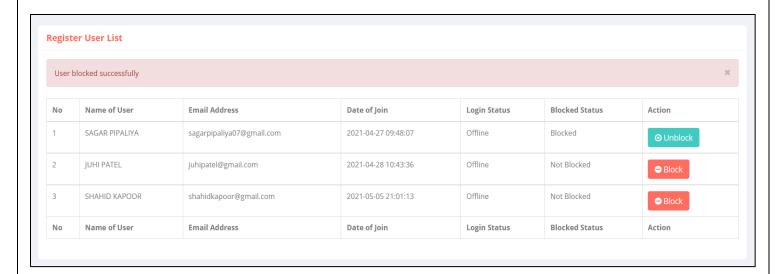
### $\circ$ Download the report as PDF



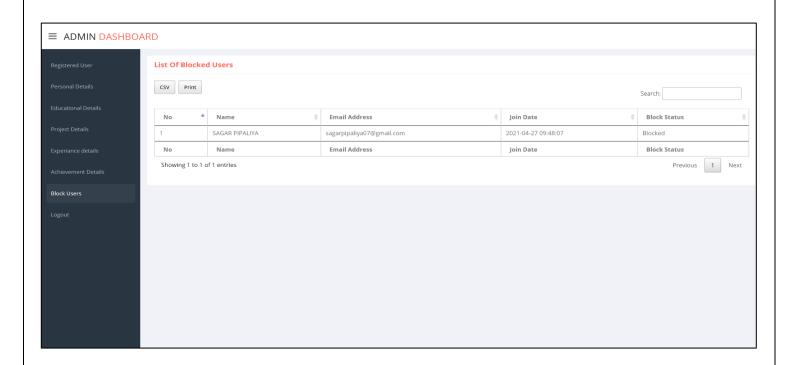
### • Download report as CSV file



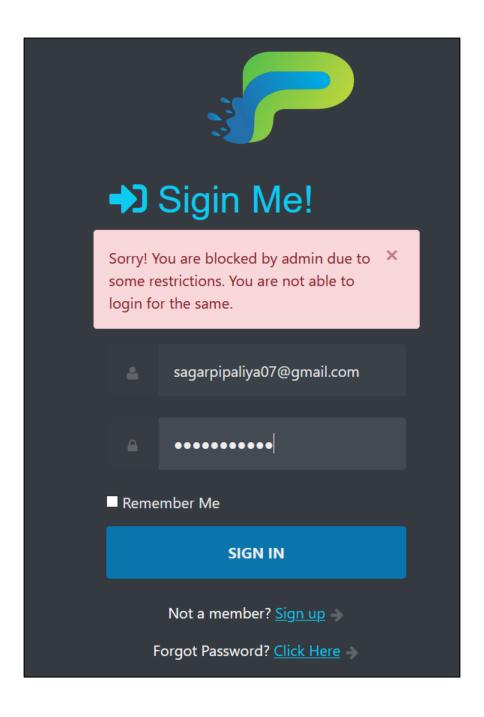
## • User Blocking System



## • Generating Blocking Report



User is not able to login once he/she blocked



#### **6. TESTING PLANS**

The test-plan is basically a list of testcases that need to be run on the system. Some of the testcases can be run independently for some components (report generation from the database, for example, can be tested independently) and some of the testcases require the whole system to be ready for their execution. It is better to test each component as and when it is ready before integrating the components.

### **Login Test Plans**

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification	The login to the system should be tried with the login assigned by the user and the correct password	Login should be successful and the user should enter in to the system	Passed
2.	Unsuccessful User Verification due to wrong password	Login to the system with a wrong password	Login should fail with an error 'Invalid Password'	Failed
3.	Unsuccessful User Verification due to invalid login id	Login to the system with an invalid login id	Login should fail with an error 'Invalid user id'	Failed
4.	Successful to remember username	Using cookies verified username is remembered by the system for 3 days	Used to help faster login facility to the user	Passed
5.	Unsuccessful to remember username	If email is not verified then cookie will not be created	Unable to remember the username	Failed

# Forgot Password Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification	Forgot password will only works on the registered users with the system	Email verification should be successful	Passed
2.	Unsuccessful User Verification due to invalid login id	If user is not registered with the system. Wrong email provided	Process should be failed with "Invalid email" error.	Failed
3.	Successful for valid captcha code	Captcha code is for the security purpose	It will help to render to change password	Passed
4.	Unsuccessful captcha code	Failed to provide valid captcha, not moving further	Process failed with "Invalid captcha" error	Failed
5.	Successful confirm password verification	Confirm password should matched with new password	Changing password should be succeed	Passed
6.	Unsuccessful confirm password verification	Confirm password is not matched with the new password	Process failed with "Password is not matching" error	Failed

# Registration Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	When user is new to the system	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to Existing email	User is not allowed to provide the same email to register	Process should be failed with "Email already exists" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

# Personal Details Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	User have to register their email with the system first	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to email is not registered	User is not allowed to access directly this page without registering	Process should be failed with "Registration error" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

## **Educational details Test Plans**

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	User have to register their email with the system first	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to email is not registered	User is not allowed to access directly this page without registering	Process should be failed with "Registration error" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

# Project Detail Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	User have to register their email with the system first	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to email is not registered	User is not allowed to access directly this page without registering	Process should be failed with "Registration error" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

## **Work Experience Test Plans**

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	User have to register their email with the system first	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to email is not registered	User is not allowed to access directly this page without registering	Process should be failed with "Registration error" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

# Achievement Detail Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful User Verification with new email	User have to register their email with the system first	User is registered successfully in the system	Passed
2.	Unsuccessful User Verification due to email is not registered	User is not allowed to access directly this page without registering	Process should be failed with "Registration error" error.	Failed
3.	Successful for Filling required fields	User have to provide all the required fields in the form	Process successful if user fill all required fields	Passed
4.	Unsuccessful for filling required fields	Failed to insert if required fields are empty,	Process failed with "This field is required" error	Failed

## Admin Details Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful Admin Verification	The login to the system should be tried with the login assigned by the system and the correct password	Login should be successful and the Admin should enter in to the system	Passed
2.	Unsuccessful Admin Verification due to wrong password	Login to the system with a wrong password	Login should fail with an error 'Invalid Password'	Failed
3.	Unsuccessful Admin Verification due to invalid login id	Login to the system with an invalid login id	Login should fail with an error 'Invalid Admin id'	Failed
4.	Successful to remember username	Using cookies verified username is remembered by the system for 3 days	Used to help faster login facility to the user	Passed
5.	Unsuccessful to remember username	If email is not verified then cookie will not be created	Unable to remember the username	Failed

# Forgot Password for admin Test Plans

No.	Testcase Title	Description	Expected Outcomes	Result
1.	Successful Admin Verification	Forgot password will only works on the registered admins with the system	Email verification should be successful	Passed
2.	Unsuccessful admin Verification due to invalid login id	If admin is not registered with the system. Wrong email provided	Process should be failed with "Invalid email" error.	Failed
3.	Successful for valid captcha code	Captcha code is for the security purpose	It will help to render to change password	Passed
4.	Unsuccessful captcha code	Failed to provide valid captcha, not moving further	Process failed with "Invalid captcha" error	Failed
5.	Successful confirm password verification	Confirm password should matched with new password	Changing password should be succeed	Passed
6.	Unsuccessful confirm password verification	Confirm password is not matched with the new password	Process failed with "Password is not matching" error	Failed

#### 7. LIMITATIONS, FUTURE SCOPE AND CONCLUSION

#### Limitations of the system

- The major limitation of system is that is they work purely online, and lack the functionality to enable the user to save a copy of their resume in other word processing software like Microsoft Word.
- Another limitation with the system is that they mostly offer a limited choice of formats. Predesigned statements and boring, cookie-cutter templates lower the authenticity of your resume considerably.

#### Future Scope of the system

- The system is having currently the static base design which can be chosen by the user, according to their needs they can choose whatever resume type.
- To increasing the system enhancement and the database security for the future.
- Users can delete their account from the site, as they got hired or some other reasons.

#### Conclusion

- The portal has been successfully completed. The goal of the system is achieved and problems are solved. The package is developed in a manner that it is user friendly and required help is provided at different levels.
- The project can be easily used in the process of decision making. Different types of reports can be generated which help the management to take correct decision and reduce the time delay which automatically increases the company's work standards as well as the economical state of the company.
- This system never decreases the manpower but helps the development of available manpower and optimizes the manpower by which company's standards and capabilities can be scaled to higher dimensions.

#### 8. BIBLIOGRAPHY

- HIRATION The resume builder
- Zety Make your portfolio
- Software engineering Complete code (Dave Thomas)
- PHP: the complete reference (Steven Holzer)