E-HUB

Group Members

NAME	ROLL NO.
ADVAIT BAL	AM.EN.U4CSE20104
ANJANA P	AM.EN.U4CSE20110
B.DHEERAJ REDDY	AM.EN.U4CSE20115
JANVI P	AM.EN.U4CSE20134

ABSTRACT

E-hub is a software company that provides various types of software solutions to clients across the world. The E-Hub Management System (EHMS) enables the client to register to EHMS, select the type of the software needed and give a clear description of the software he wants. And also the client can check the status of the software. The client can also modify their personal Details. The system allocates a team of software developers to the new projects according to their specialization and availability. The system admin will be able to login to the system using his/her login credentials and will be able to view, add, edit or delete employee details of the organisation. The admin can retrieve employee details just by entering their employee ID. The admin can also manually take part in the software development team allocation process.

Keywords: EHMS, login credentials, employee details, team allocation, specialisation, availability, software development, system, admin, client.

Actors

1. Client: Client is any person who has registered with the system using a valid client id and password.
2. Admin: He/she acts as the facilitator for services of each Client.

Functional Requirements of the System

The functional requirements of EHMS are

Ordering Software:

- The client should register with the system before using EHMS.
- The client should login to the system to access his/her main page.
- The client can place the order, view/modify their personal details and will be able to view the status of the software.

Employee hiring:

- The Admin needs to login before using EHMS.
- The admin will hire or fire or modify employee details.

Project allocation:

- The System or admin will allocate the development team to the project.
- The admin will update the status of the software.

Use cases

1. Register/Login
2. Select Type of software and description
3. View status
4. Assign a software development team to project.
5. a)Add employee

   b)Delete employee

   c)Edit employee
6. Update status

Use Case Description

1)

Use case ID	Register/Login
Brief description	The user(client/admin) can get access to the system using email id and password and an OTP will be sent to the registered Email id.
Primary actors	System admin and client.
Precondition	Clients must register with the system and should have valid login credentials. The admin should have the credentials provided by the company.

Post condition	If the user is not registered,register with the system or perform transactions if the login attempt was successful.
Main success Scenario	If a valid user, then display welcome message and give access to his/her account else return error message.
Actor Action	System Response
1. The user enters login credentials and clicks on the login button.	• Performs validation of login credentials. If a valid user, provides access. • The user get access into the account main page
2. Alternate flow	• If not a valid user, system returns an error message.

2)

Use case ID	Select Type of software and description.

Brief description	The client selects the type of software of his desire and gives a short description.
Primary actors	client
Precondition	The client must be logged in using his/her credentials.
Post condition	Software gets purchased and a developer team gets allocated.
Main success Scenario	The client gets the confirmation for his/her order.
Actor Action	System Response
1. Client goes to the purchase window.	● Presents the types of softwares available and its description.

2. Client selects the type from the available sorts of software and gives the details according to the needs.	● The type and details are taken by the system.
3. Clients click on Purchase.	● Order details are taken and are redirected to the payment gateway.
Pays by credit card/debit card.	● The amount of debited information comes from the gateway.
	● Order gets confirmed and a confirmation mail is sent to the registered email-id.
Alternate flow	● The payment fails,and an error message is generated. System goes back to the homepage.

3)

Use case ID	View status

Brief description	The client can view the status of the software as well as the name of the team leader assigned.
Primary actors	client
Precondition	The client must be logged in using his/her credentials.
Post condition	The status of the development process is viewed by the client.
Main success Scenario	The client gets to know the status of his/her order.
Actor Action	System Response
1. Client goes to the orders window.	● System shows the list of orders placed.

2. Client selects the order for which he/she needs the details(status).	● The system displays the corresponding software details as well as the status of development.
Alternate flow	● No status viewed because no order is placed.

4)

Use case ID	Assign a software development team to project.
Brief description	The system allots each software to a software development team based on the specifications given. Admin can also manually allocate.
Primary actors	Admin, client

Precondition	● The client should provide the type of the software where the system takes that information and allots the project to a team based on the availability and specialization of the team. ● The admin should be logged using his/her credentials.
Post condition	The software order placed gets allocated to a development team.
Main success Scenario	The software order placed gets allocated to a development team.
Actor Action	System Response
a) 1. Client goes to the purchase window .	● Presents the types of softwares available and its description.
2. Client selects the type from the available sorts of software and gives the details according to the needs, clicks on purchase and confirms the order by making the payment.	● The system takes the information(software type) and allot a software development team checking the availability and specialisation of the listed development teams.

b) 1. Admin goes to the allocation window .	• The allocation window shows the orders placed along with its details.
2. Admin selects the order for which the team has to be allocated.	• The system displays the available teams and their specialisation identified by the name of the team leader.
3. Admin selects the suitable development team and click on the assign button.	• Allocation gets confirmed and status gets updated to “allocated” and also view the name of the team leader.
Alternate flow	• The allocation fails,and an error message is generated.

5)

Use case ID	Add,Delete or Edit employee details

Brief description	The Software admin Adds, Edit or deletes an employee
Primary actors	Admin
Precondition	The Admin must be logged in using his/her credentials.
Post condition	The employee detail gets added or deleted.It also gets updated if done by the admin
Main success Scenario	Employee data is defined or modified in the database
Actor Action	System Response
1. Admin goes the employee details window	● System shows the current data. Also shows options to Add,delete or edit.
2. Admin clicks on add employee	● The form for employee details gets displayed.

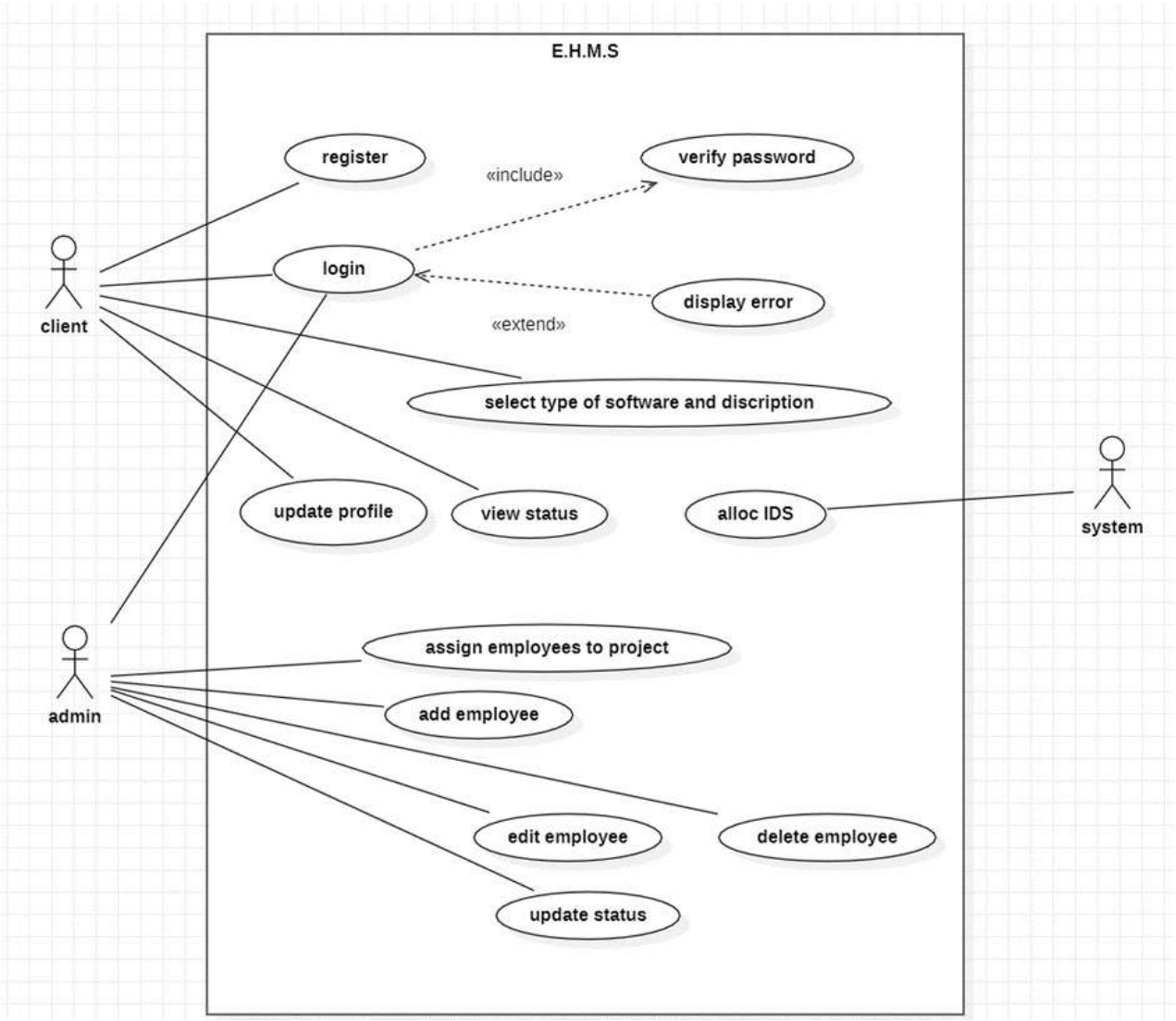
3. Admin adds the detail.Confirms.	• The details of the employee gets added to the database
4. To delete, the admin selects an employee.	• options for delete and edit
5. Admin clicks on delete	• Prompt message appears
6. confirms to delete	• The data gets deleted from the database
7. To edit, admin selects edit option	• The Employee detail form appears
8. admin makes the necessary changes in the form and confirms.	• The updates on the details are reflected in the database.
Alternate flow	
The admin clicks on cancel	• System displays the employee details, the edit form gets closed

6)

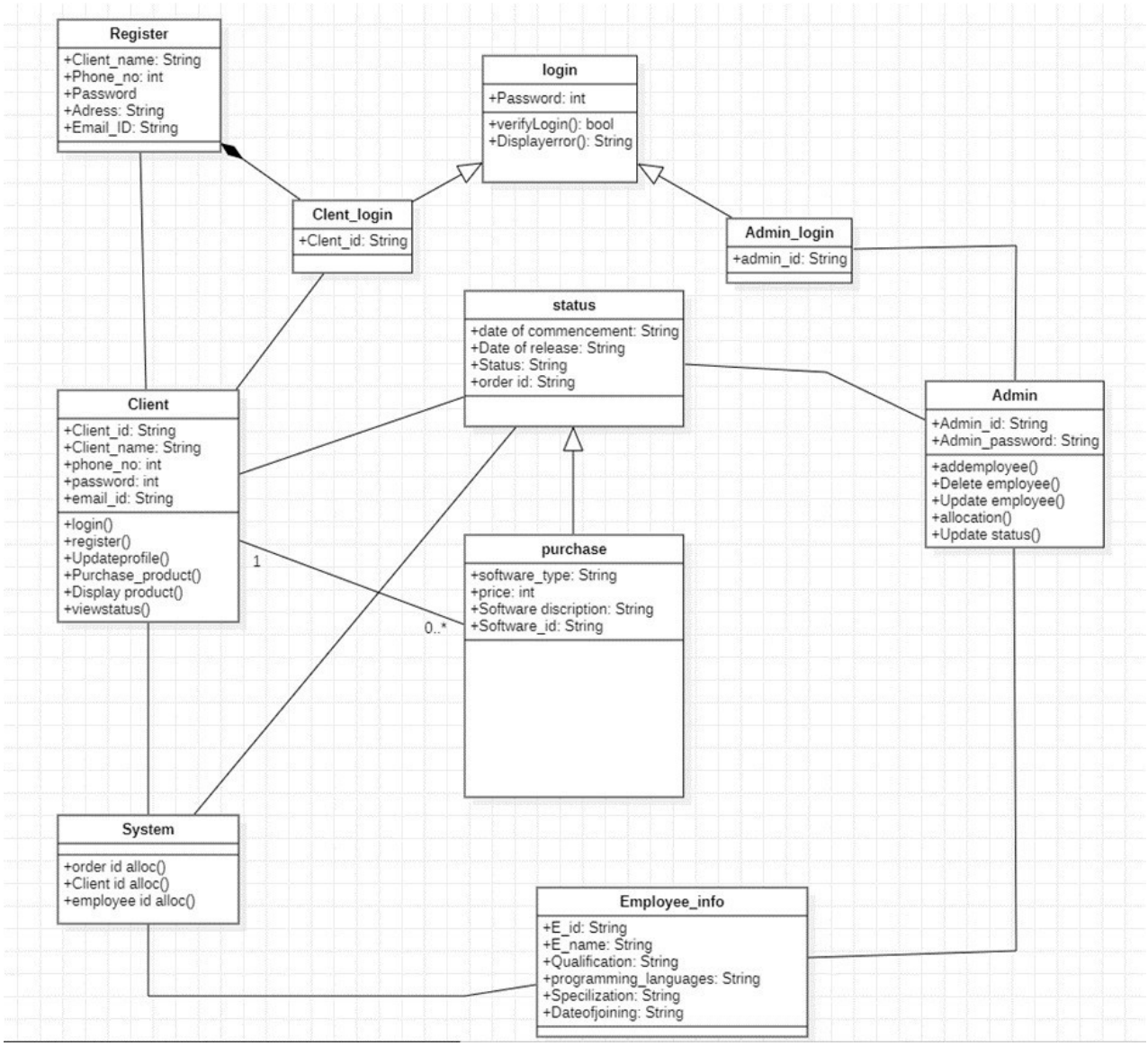
Use case ID	Update status
Brief description	The admin can update the status of the software.
Primary actors	admin
Precondition	The admin must be logged in using his/her credentials.
Post condition	The status of the development process is updated by the admin.
Main success Scenario	The status of the software gets updated.
Actor Action	System Response

1. Admin goes to the orders window.	● System shows the list of orders placed.
2. Admin selects the order for which he/she needs to update the status.	● The system displays the corresponding software details as well as the status of development.
Alternate flow	● No status updated because no order is placed.

Use case Diagram

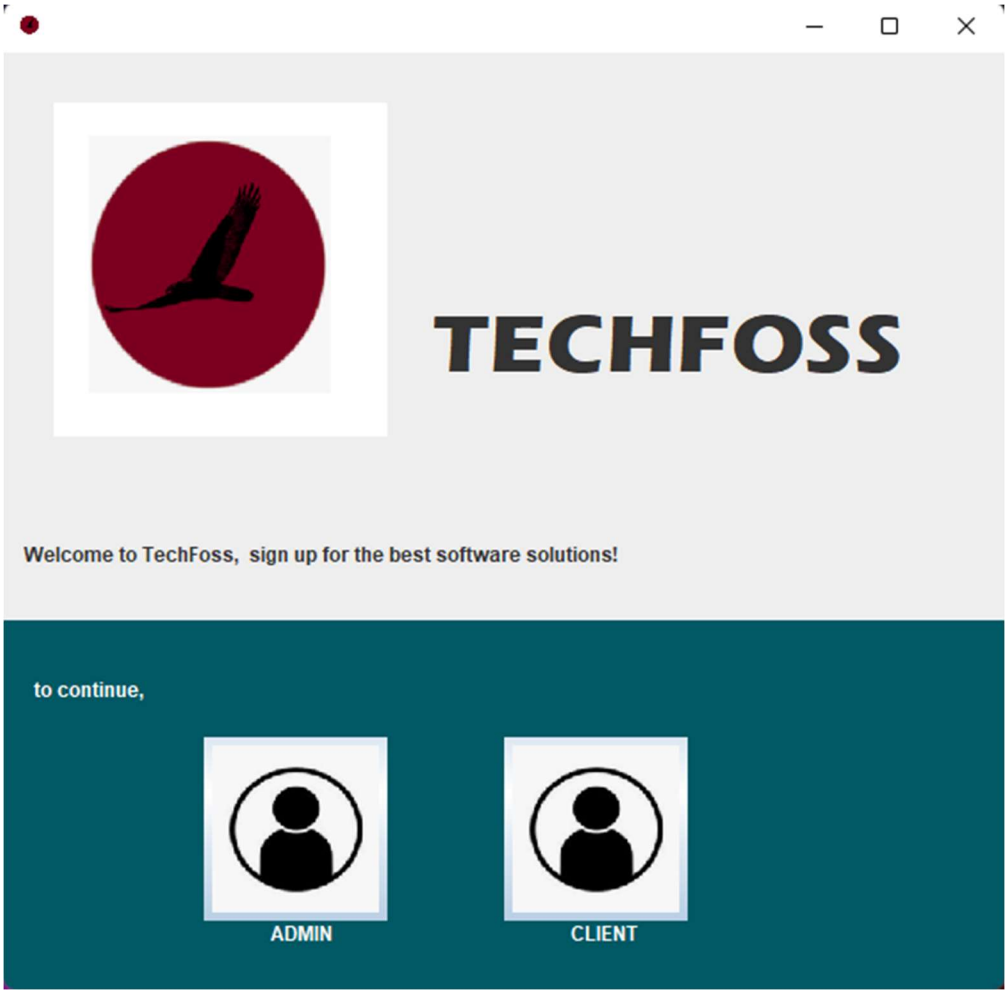


Class Diagram

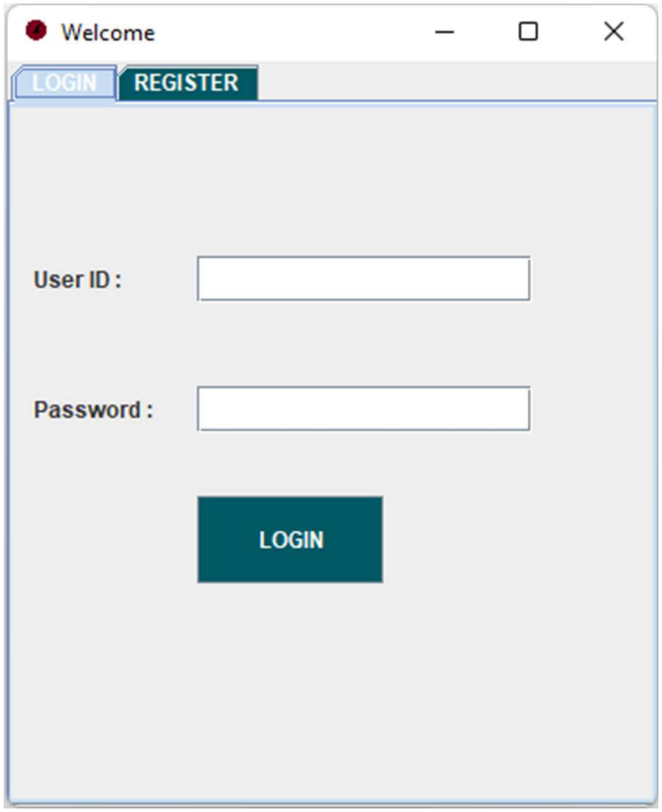


User Interface Design

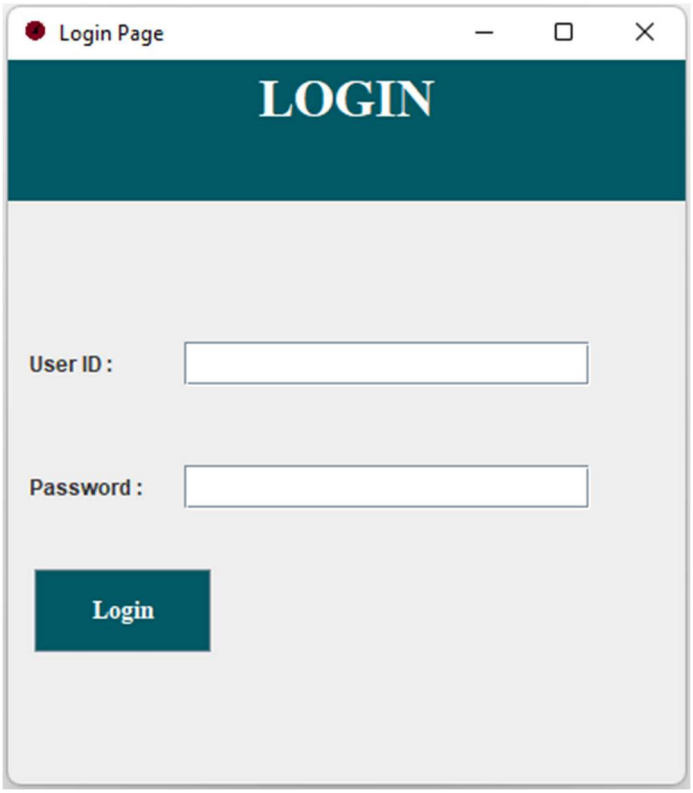
Welcome page :



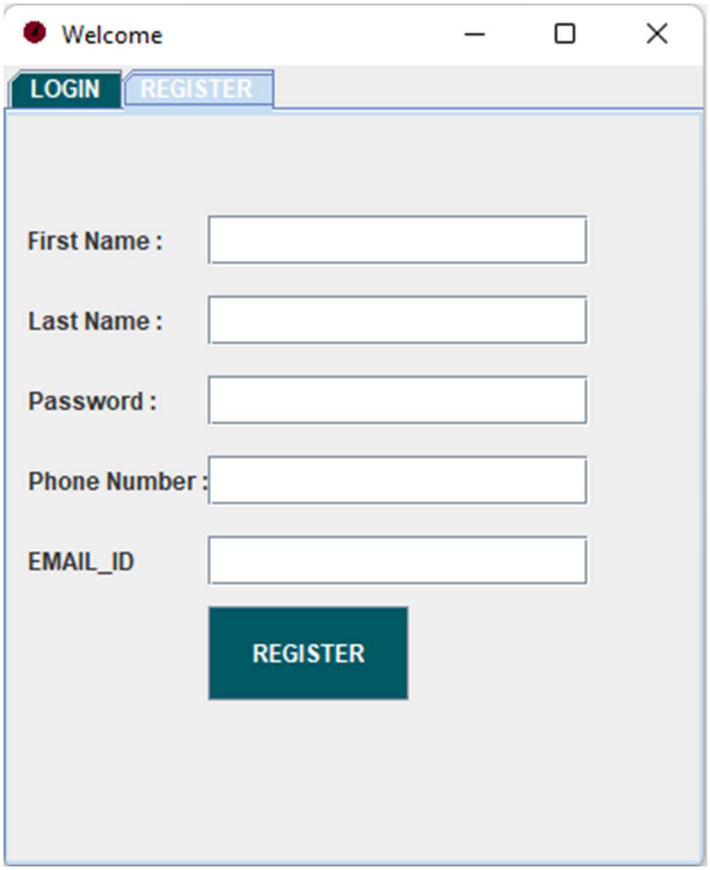
- Login page for client:



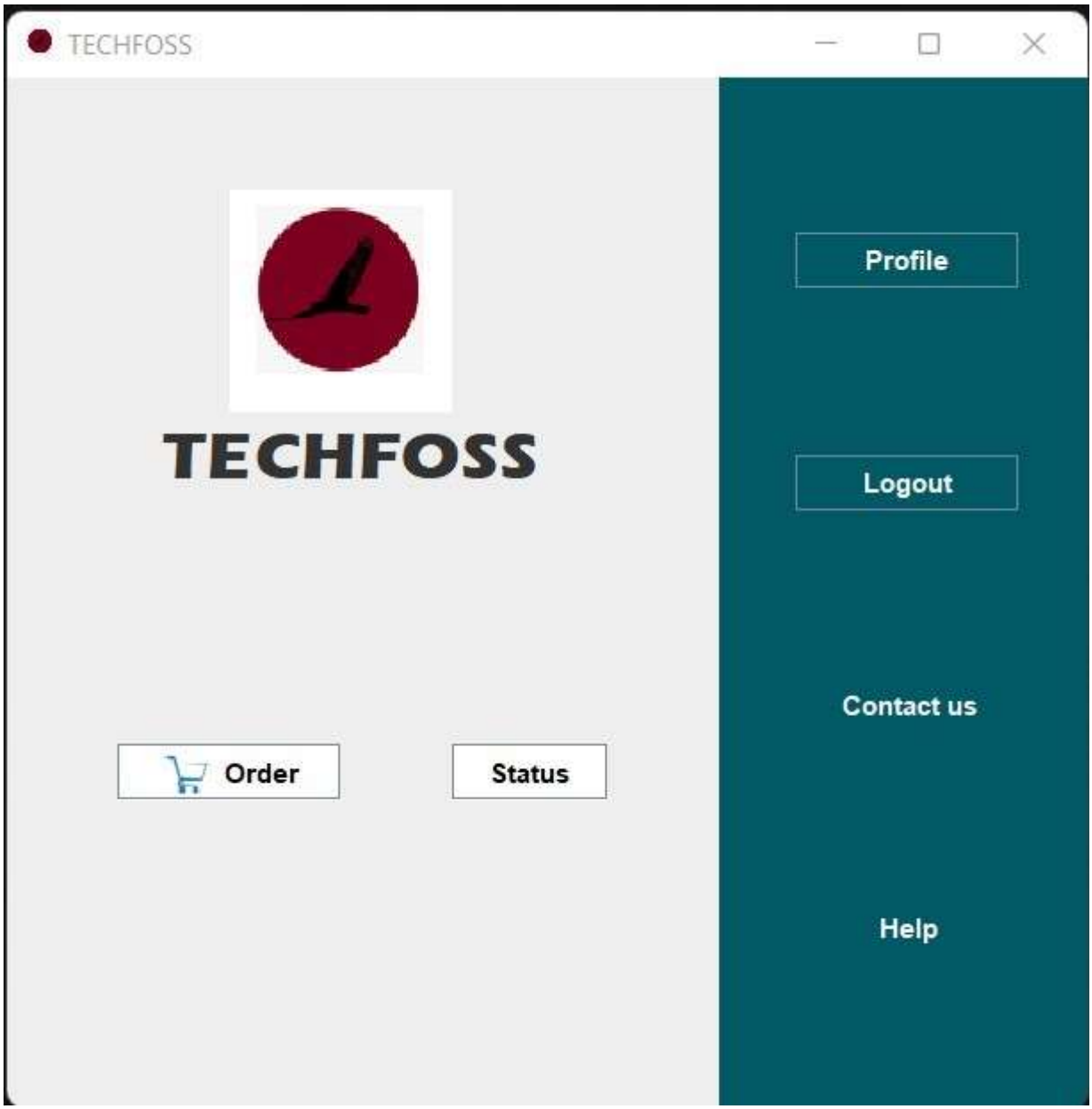
- Login page for admin:



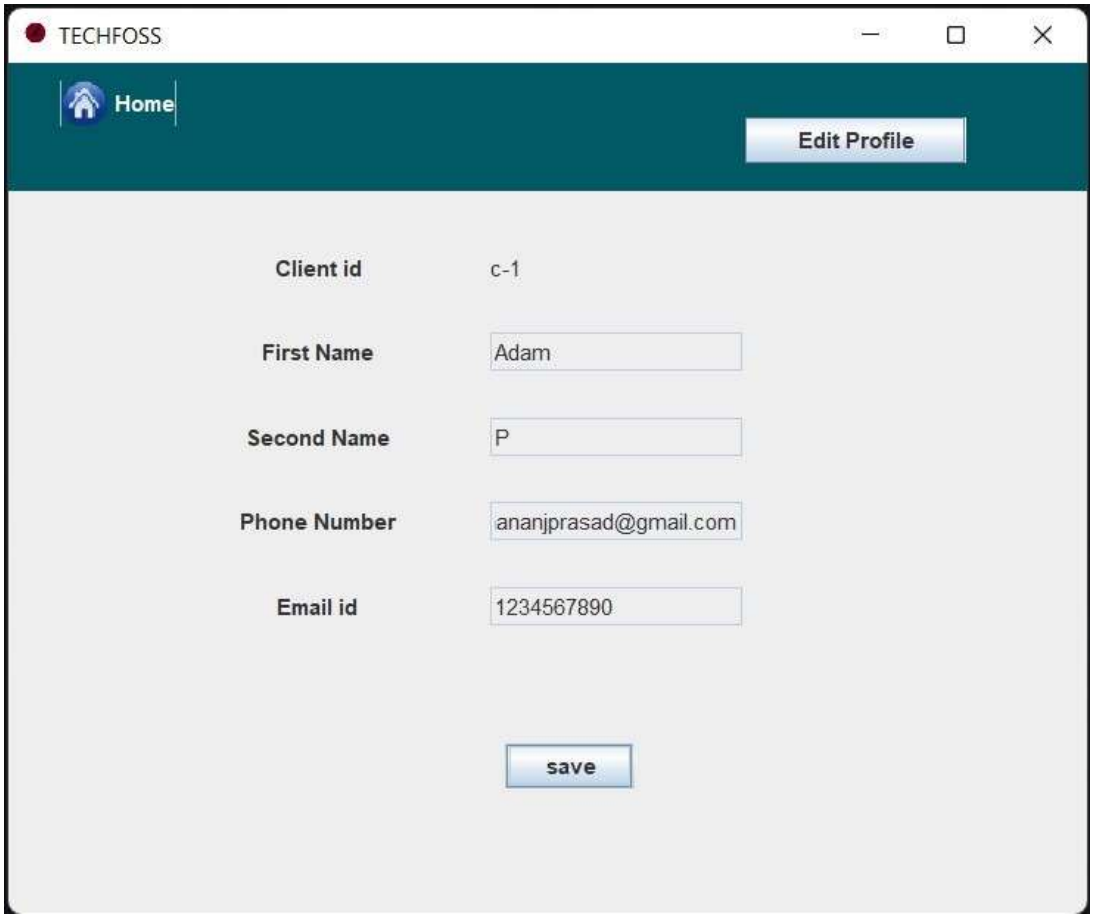
- Register page for client:



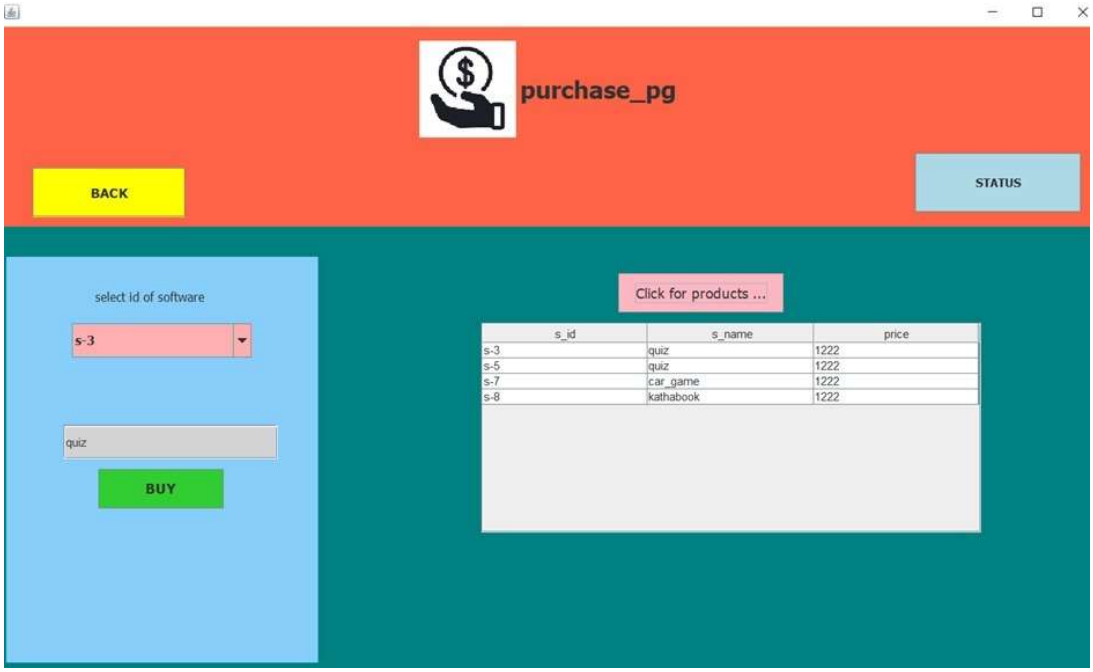
- Home page of client:



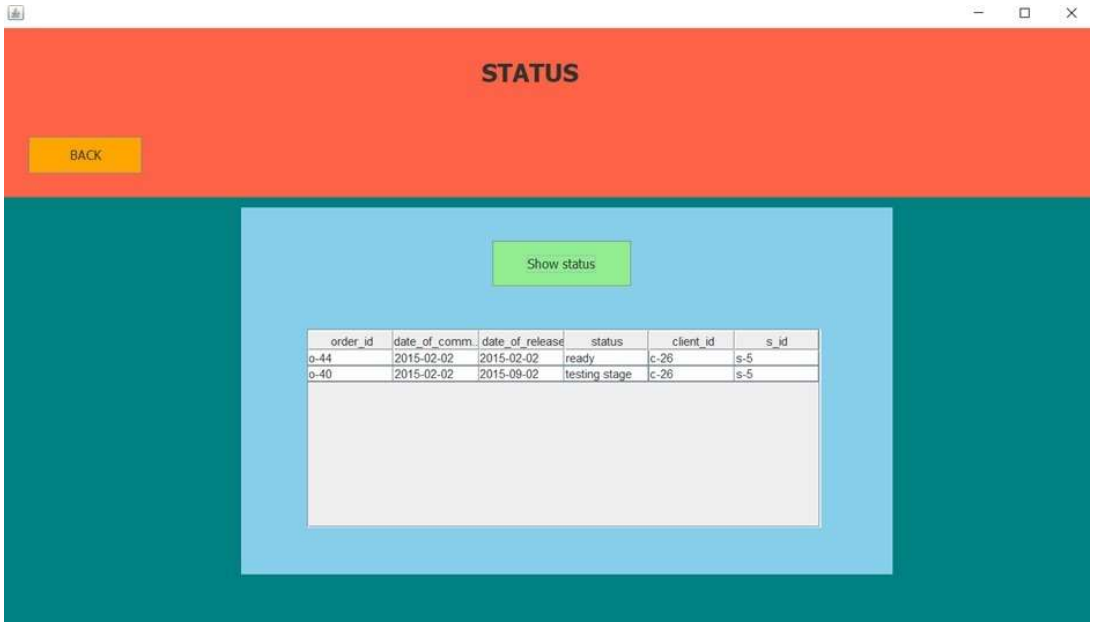
Client profile:



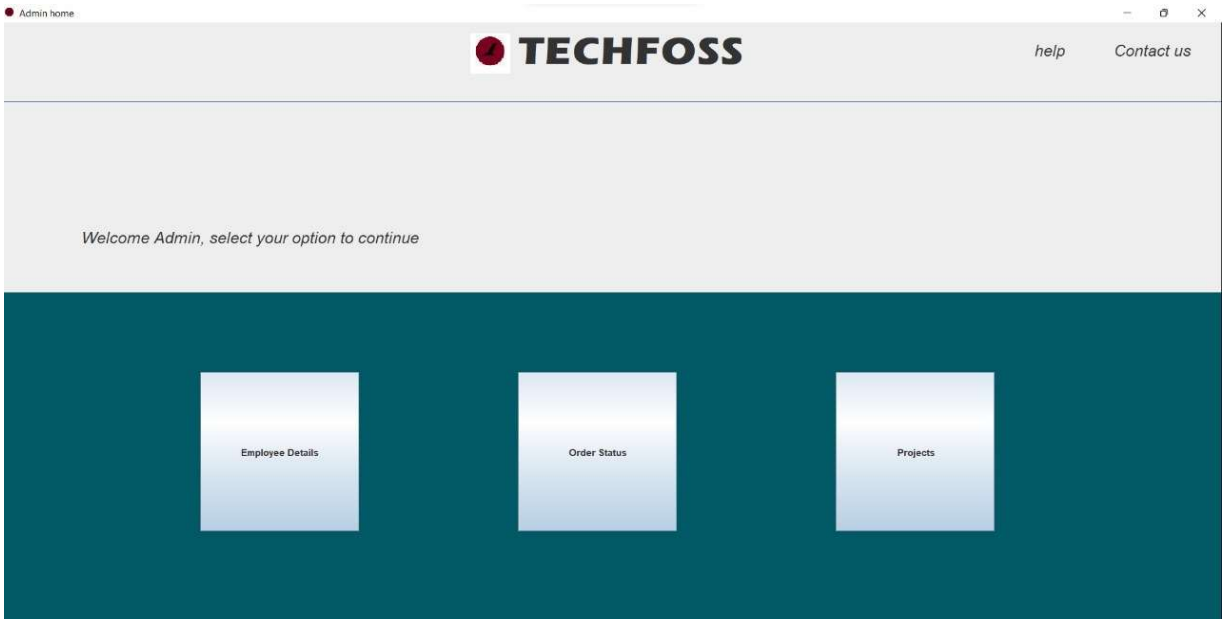
- Purchase page of client:



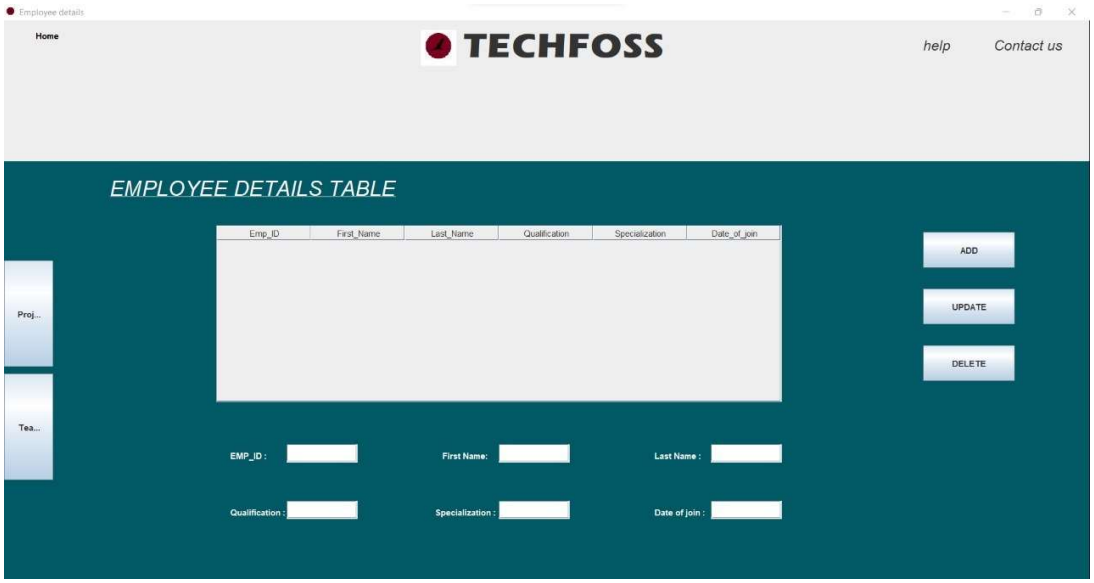
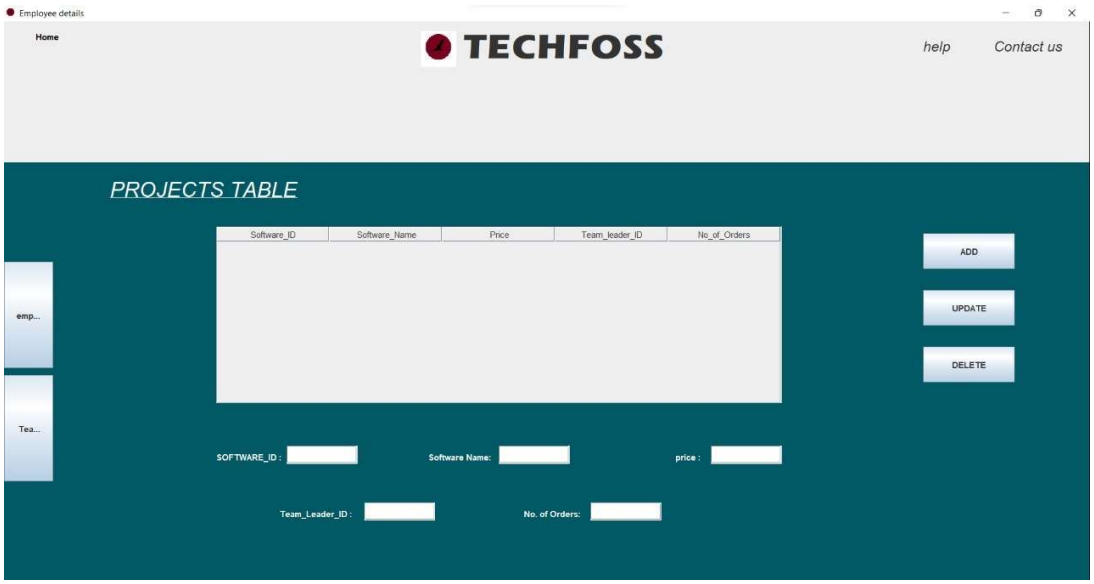
- status page for client:



- Admin homepage



- Employee details (main table)



- Available softwares(projects) page