Eproject

E-Project for Semester 2.

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EMPLOYEE TRANSFER MANAGEMENT

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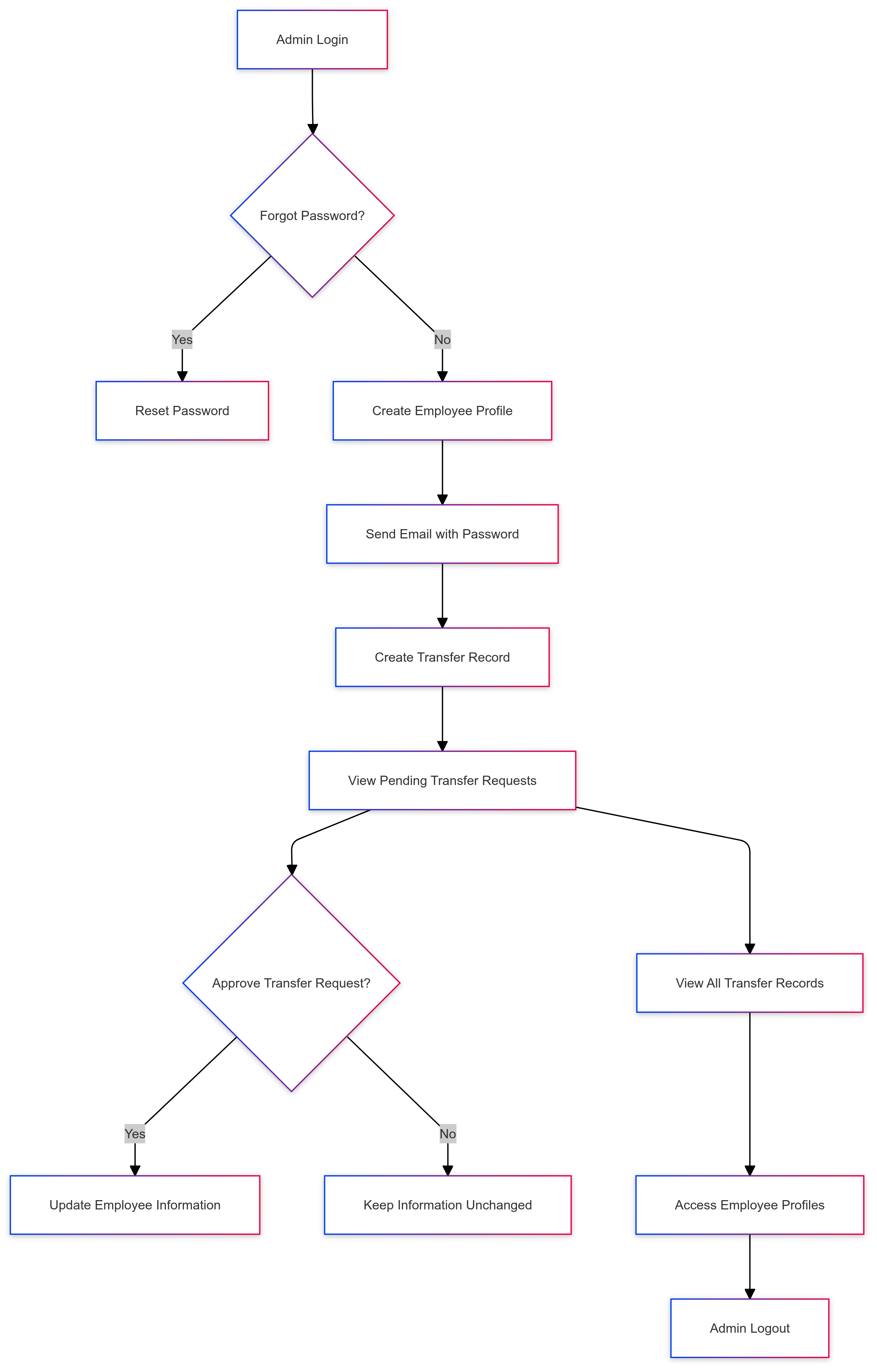
**INTRODUCE EPROJECT – PROJECT PAINTINGS**

* + - 1. **Problem definition of project:**

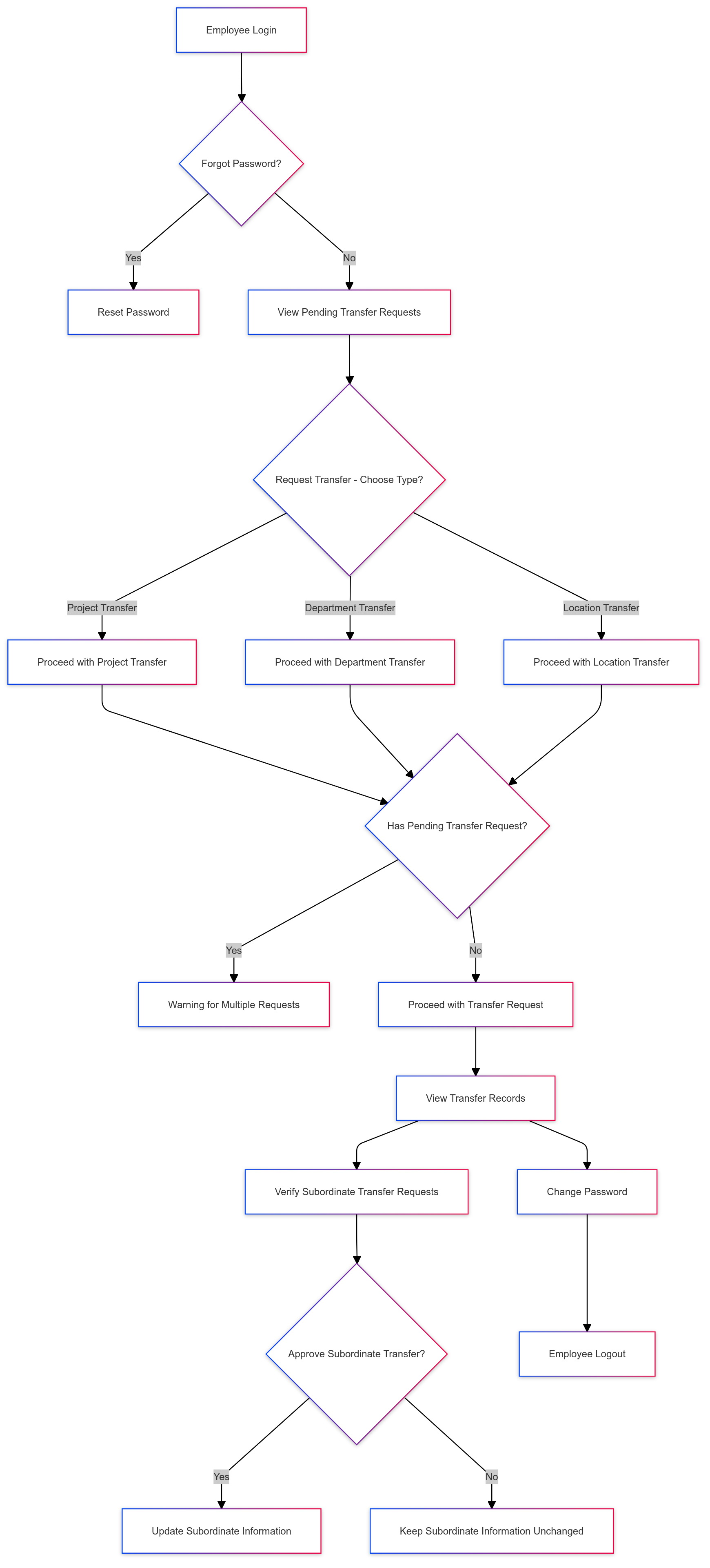
ABC Technologies Ltd. is facing challenges in managing employee transfer records. Currently, transfer information is stored in various formats across multiple computers, making it difficult for higher management to access all necessary data in one place. The process of retrieving transfer details involves communicating with department heads, which is inefficient and time-consuming. Additionally, sharing this information through circulars is cumbersome and lacks standardization.

To address these issues, the company aims to implement a centralized system that streamlines the management of employee transfers. This proposed system will provide role-based access for employees and administrators, allowing for efficient searching, updating of records, creation of new transfers, and management of allowances. This solution will significantly reduce the time required for managing and retrieving transfer-related data.

* + - 1. **List of Inputs to the Application:**
* User:
* Transfer Request Information (for Project/Department/Location)
* Username and password to login
* Security code for password change (code sent by email)
* Filter options of request records (for record view and report generating)
* Verification on transfer request of subordinates (self request not included)
* Admin:
* Similar to User’s input above
* Employee information (for profile creation)
* Filter options of profiles (for profile view and edit)
* Verification on transfer all request (self request not included)
  + - 1. **List of Outputs Expected from the Application**
* User:
* Account self-management view
* New password (for password change or forget password function)
* Transfer record view (including self request and subordinates’ request)
* Transfer request creation
* Approve transfer requests from subordinates only
* Summary reports (sent to email with attached CSV file)
* Admin:
* Similar to User's function
* Create profiles (accounts)
* Unique privilege
  + Access to all transfer requests
  + Access to profile table (all profiles)
    - 1. **Overview of Processes Involved on the Application**
* Login frame is where the user enter the username and password to connect to the application. In case you forgot your password, there’s a button for you to proceed with setting up a new password.
* If you login as an admin, you can create a new profile for a new employee. When the new account is created, an email is sent to the registered email of that new employee. This email includes a random generated password for that new employee as the initial password.
* With that new profile created, a new transfer record is also created with the to ensure the transparency of the history of the transfer record.
* You can check your account information in the ‘Profile’ menu item. In case you want to change your password, there is also a button for you to proceed in the profile dialog.
* When you login, you can see the menu panel on the left. The main frame shows the Home panel, which includes a table of pending transfer requests waiting for your verification. There is also a pie chart showing how many approved/rejected/pending requests related to you.
* You can start to request for a transfer by moving to the ‘Request’ section. There are three tabs which are divided into three types of transfer request: Project transfer, Department transfer, Location transfer.
* After filling the information and confirm the creation of the request, an email is sent to the employee who is requested to be transferred as a receipt. If the requester is the direct manager of that employee, the status of the request is automatically approved.
* One employee can only have one pending requests of project/department/location. If you attempt to create more than one pending, a warning window pops up and the request is not created.
* In the ‘Records’ section, you can have an overview of all the transfer record. You can see all of the records if you login as an admin. If you login as an employee role, you can only see the requests related to you and your direct subordinates.
* For requests that are requested by your subordinates, you can right click to verify the request. Once the request is approved, the information of the affected employee will be updated. If the request is rejected, profile information of that employee remains as is.
* You can filter the information you would like to look up to by the filter section. Moreover, the currently rendered transfer records can be generated into a summary report sent to the email of the user. The email includes a CSV file of the currently rendered table.
* If you login as an admin, you can also access to the table of employees’ profile which an employee cannot see.
* In case you want to exit the connection to the app, you can choose to logout of the application.
  + - 1. **Hardware and Software Required for Implementing the Project**
* Hardware:
* 1.6 GHz or faster processor. 1 GB of RAM. (common requirements for VS Code)
* Software:
* IDE: Eclipse IDE
* Database: MySQL
* Icon resources: Iconfinder
* Email template editor: Tabular
* Icon coloring: image.pi7.org
  + - 1. **Flow chart**
* Admin:



* User:



* + - 1. **Table assigning tasks to members (for Leader)**

\*Note that the task assignment well is planned upon the capability and the availability of each member. The work contribution percentage can be well reflected by the table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Index** | **Function** | **Function Detail** | **Priority** | **Recipient** | **Note** |
| 1 | Create Database |  | High | Vinh, Minh |  |
| 2 | Application flow design |  | High | Vinh |  |
| 3 | Logo Design |  | Low | Vinh |  |
| 4 | Gathering UI resources |  | Low | Vinh |  |
| 5 | Application UI design |  | High | Vinh |  |
| 6 | Login |  | High | Vinh |  |
| 7 | Create profile |  | High | Vinh |  |
| 8 | Forget Password + Change password |  | High | Vinh |  |
| 9 | Profile view |  | Medium | Vinh, Minh |  |
| 10 | Home |  | High | Vinh, Minh |  |
| 11 | Request Transfer |  | High | Minh, Vinh |  |
| 12 | Records |  | High | Minh, Vinh |  |
| 13 | Profile |  | Medium | Minh |  |
| 14 | Filter |  | High | Minh |  |
| 15 | Email design and sending function |  | High | Vinh |  |
| 16 | Pagination |  | High | Vinh |  |
| 17 | Overall weekly review |  | High | Vinh, Minh |  |
| 18 | Report |  | High | Vinh |  |

**INSTRUCTION TO RUN THE PROJECT**

1. **XAMPP Setup**

Open XAMPP and Start module Apache and MySQL.

A screenshot of a computer

Description automatically generated

In case the configuration of these two modules does not work normally on your PC, please re-configure these modules by:

- Open the configuration as the image below

- Check the files in the report folder

- Copy the content of the file ‘httpd.conf.txt’ and paste it in the Apache configuration.

- Copy the content of the file ‘my.ini’ and paste it in the MySQL configuration.

A screenshot of a computer

Description automatically generated

1. **Import database and tables into SQL Server**

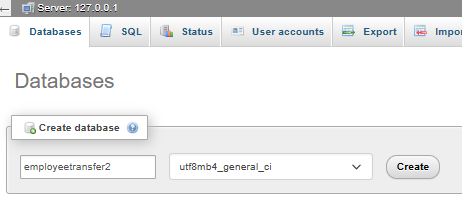
In the report folder, please use the file ‘employeetransfer2.sql’ as the import database

Access phpMyAdmin page: If you setup the XAMPP as the files provided in the previous step, the URL to the phpMyAdmin should be ‘http://localhost:8090/phpmyadmin/’.

**A screenshot of a computer

Description automatically generated**

After accessing it, create a new database named ‘employeetransfer2’ as in the image below.



Now, choose the ‘Import’ tab and choose the file ‘employeetransfer2.sql’ which is attached in the report folder. Then, click ‘Import’ at the end of the page.

**A screenshot of a computer

Description automatically generated**

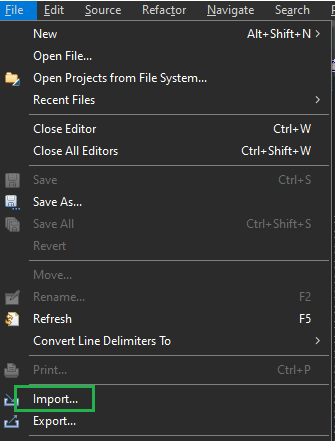
By now, the database should be successfully created.

1. **Import Project into Eclipse**

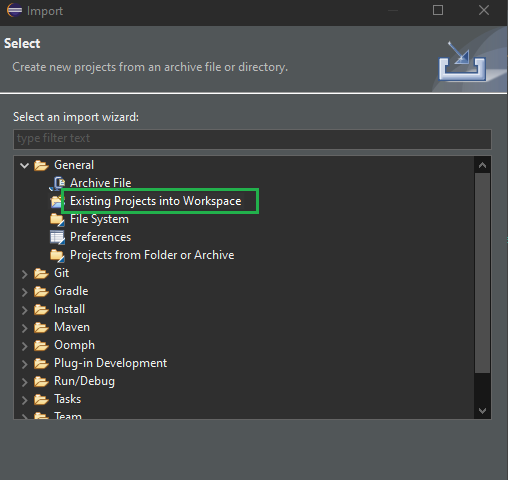
Before importing the source code, you might want to copy the content folder of the ‘Source Code’ folder to your Eclipse IDE workspace to avoid unexpected error.

(The default path to the Eclipse IDE workspace is c:\users\username\eclipse-workspace)

On the menu bar, choose File -> Import.



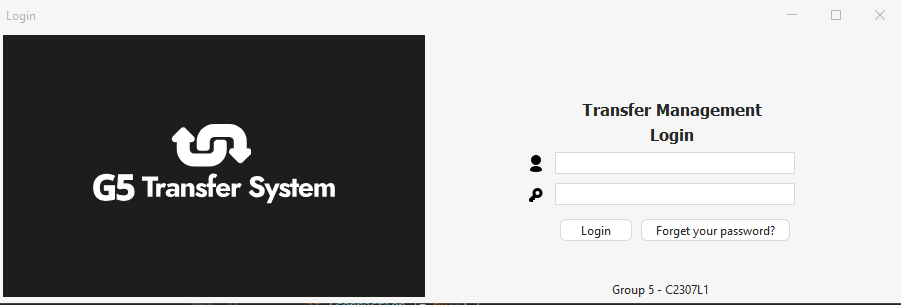
Select ‘Existing Projects into Workspace’. Then, choose the folder that you’ve just moved to the workspace folder, and proceed to finish the import.



1. **Run Application**
2. **Login**

Now that the source code is imported into the Eclipse IDE, please open to \\src\jframes\JFrameLogin.java and run it.

You can see the login frame.



For your demo, here are the information of the created accounts:

Admin:

Account: huyminh2001

Password: 123456minh

Employee that has subordinates:

Account: hoangmi123

Password: 123456minh

Employee without subordinates:

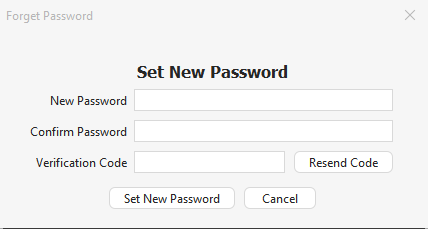
Account: huy123

Password: 123456minh

1. **Forget password**

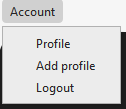
If you choose ‘Forget your password’, a dialog displays for you to enter your username. The verification code will be sent the the relevant email of your username. You should enter the new password and the verification code to complete setting up a new password.

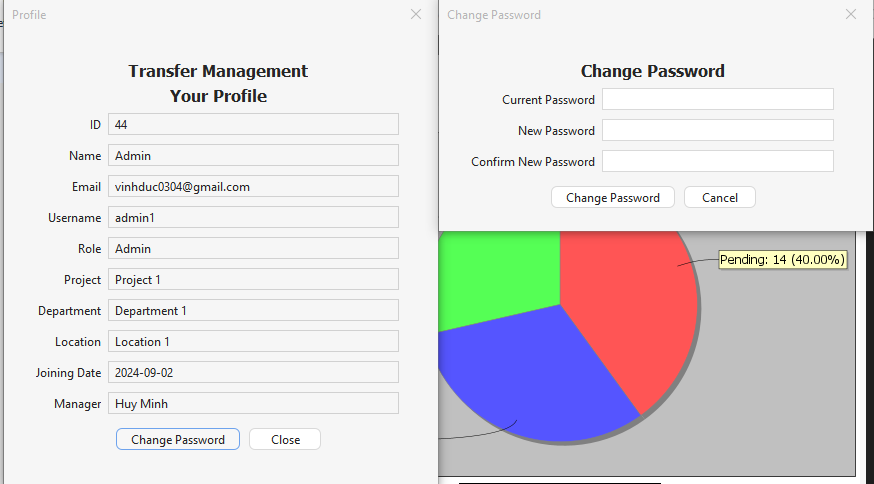
In case you choose to resend the code, another email you be sent to you.

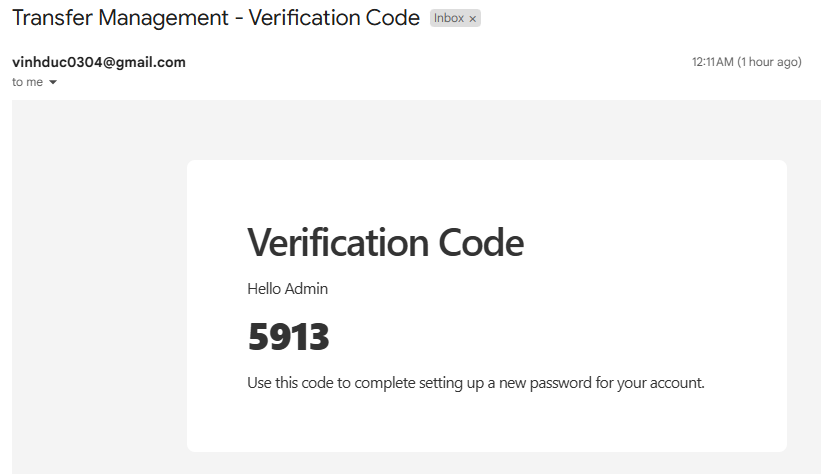


1. **Profile and change password**

After logging in, on the top left of the application, you can choose ‘Profile’ to check for your information. In the ‘Profile’ dialog, you can choose to change your password.

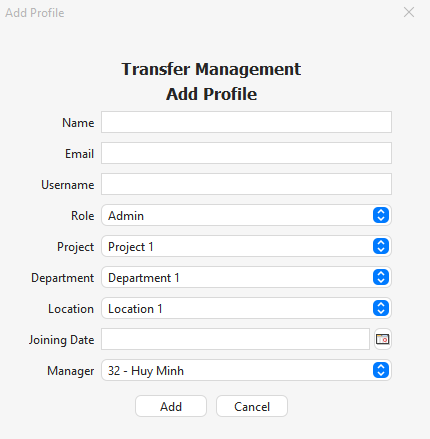


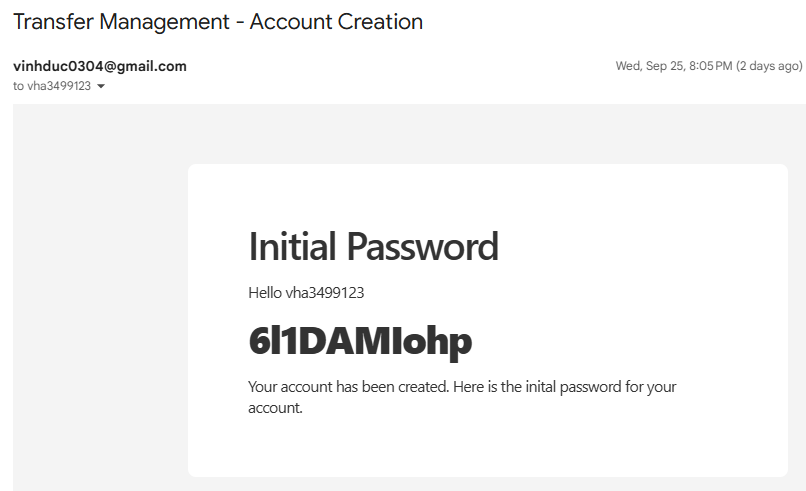




1. **Add profile**

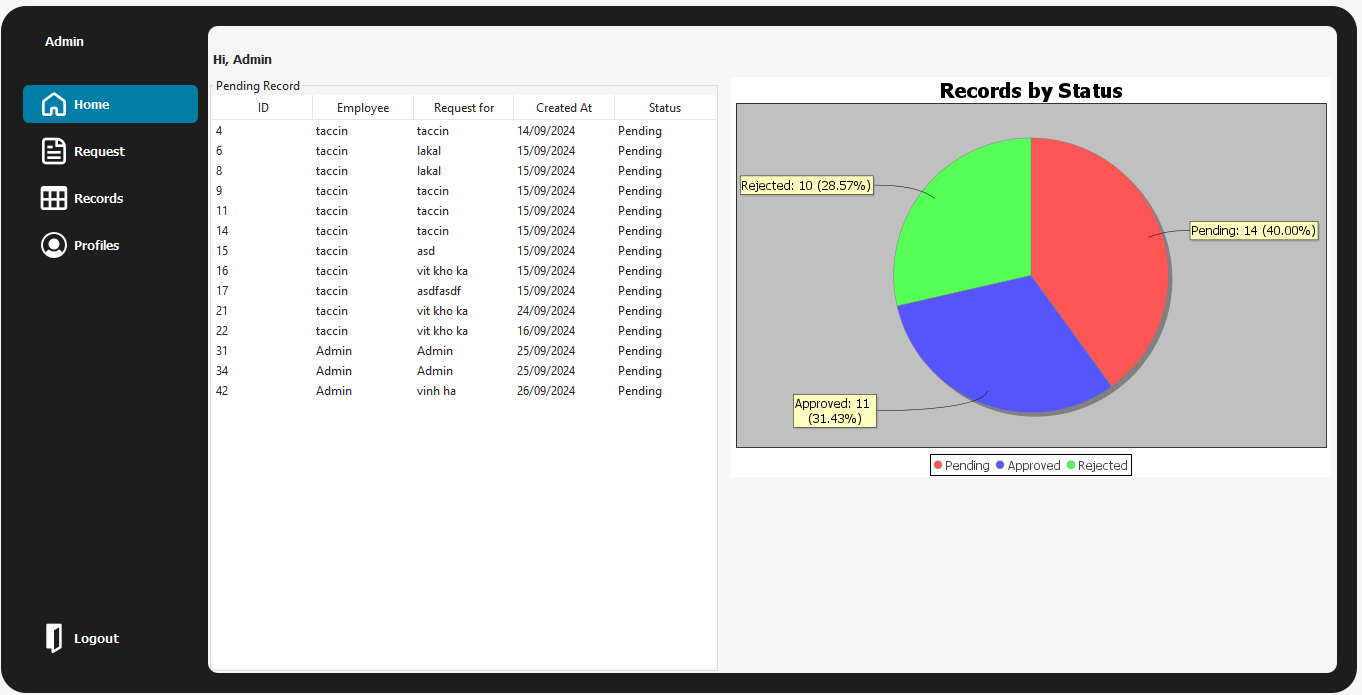
If you login as an Admin, you can create a new profile in the ‘Add profile’ menu item. The initial password is randomly generated and send to the email of that new user.





1. **Home**

Home page is for you to check the pending requests awaiting for your approval and the pie chart of other status of the requests related to you.

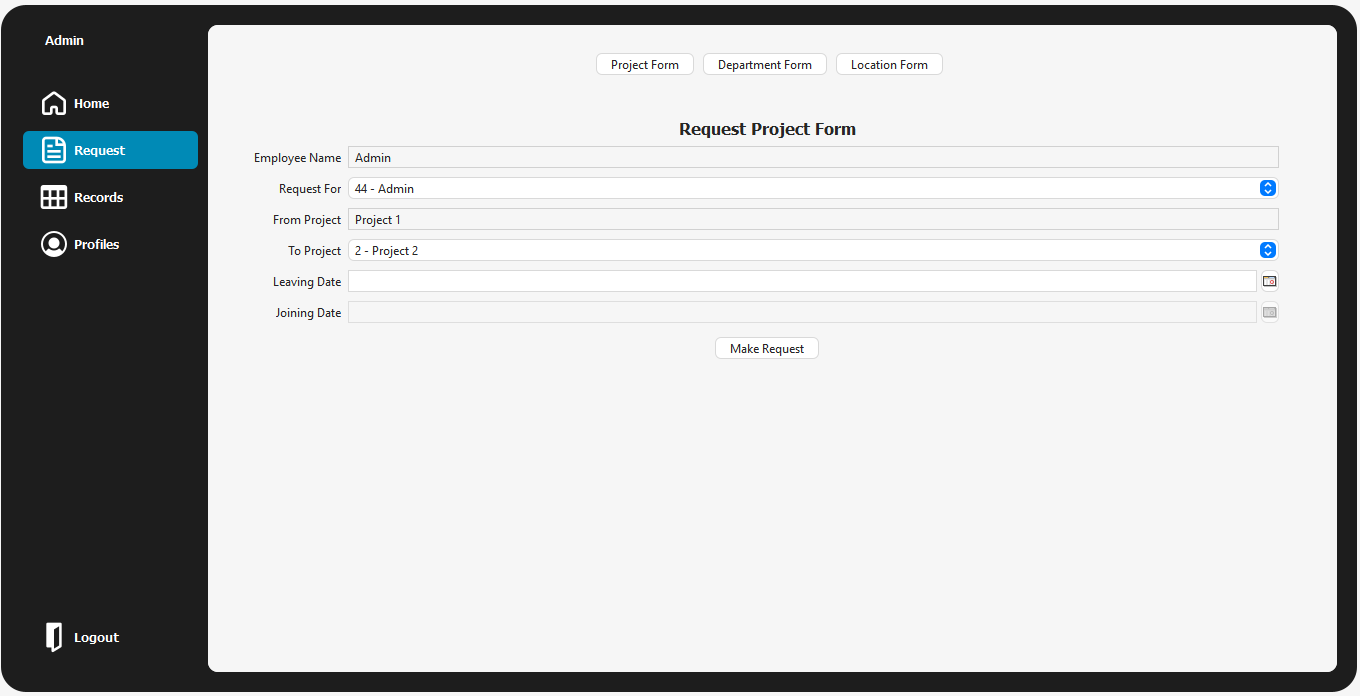


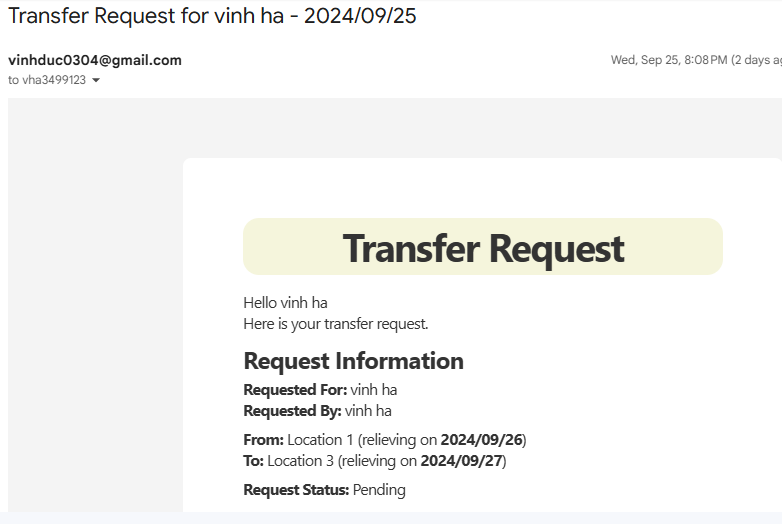
1. **Request transfer**

In the ‘Request’ section, simply input the information to add a new request.

After sending request, the employee who is affected by that transfer will receive an email as a receipt. All three tabs of Project, Department, and Location proceeds similarly.

One user cannot have more than one pending request on project/department/location. A dialog will appear upon such attempt and record will not be created.

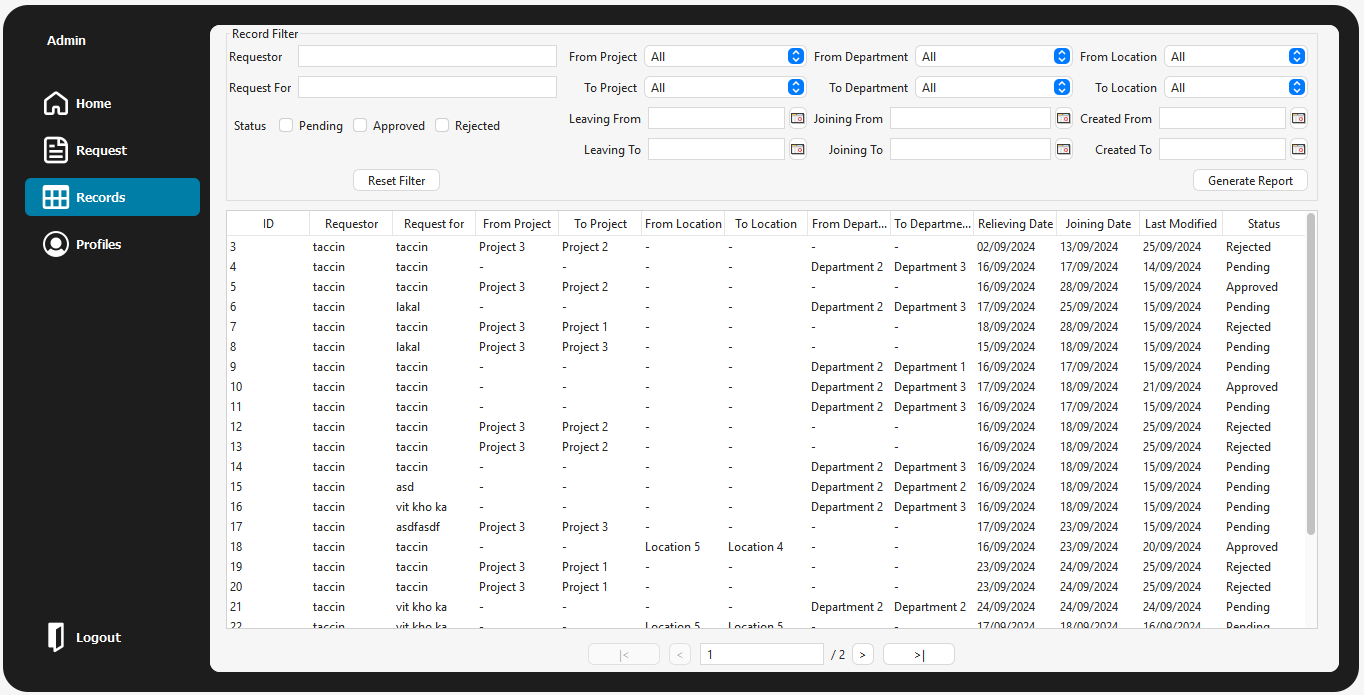


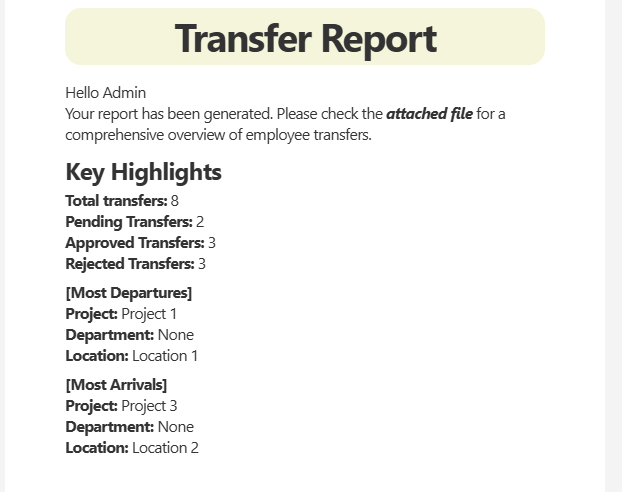


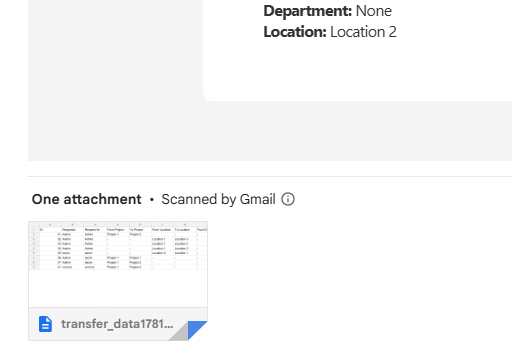
1. **Records**

In the ‘Record’ section, you can use the filter at the top section to look up to the records as you like. You can reset your filter back to default.

Choose ‘Generate Report’ to receive the summary email of the currently rendered table. The email includes a CSV file which has the information of the records.







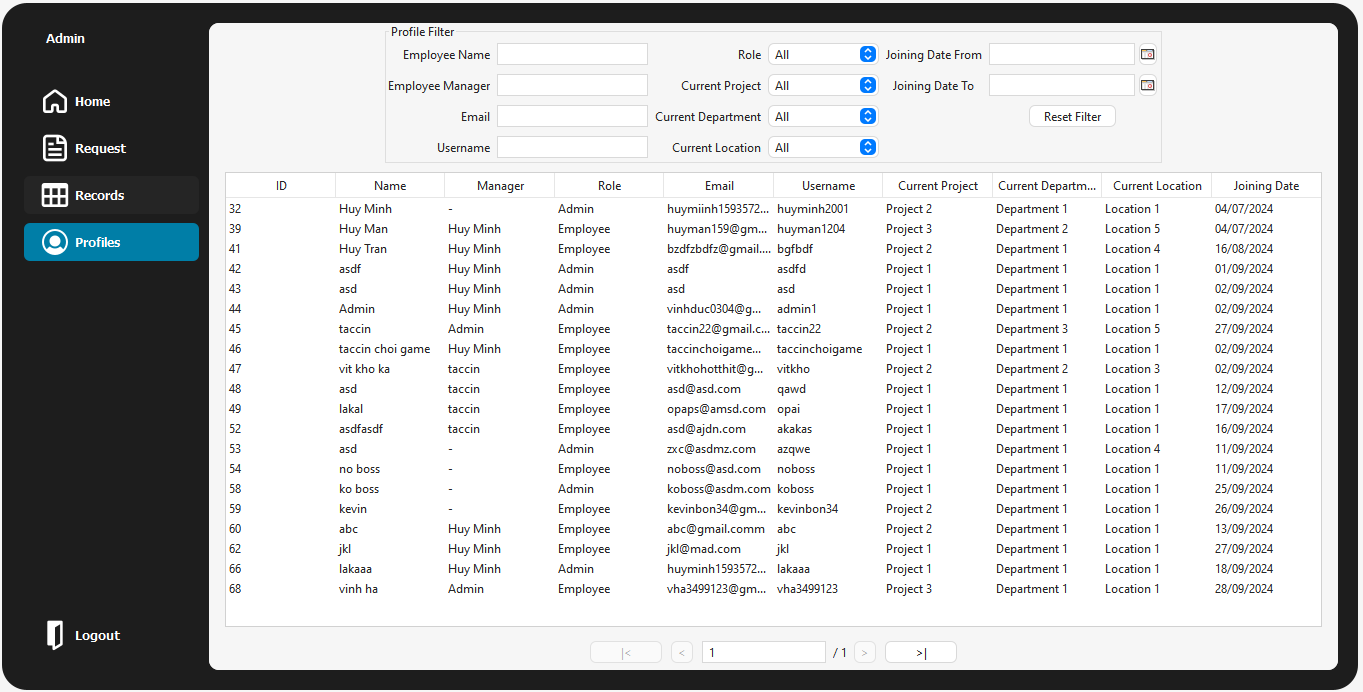
1. **Verify request**

Right-click on a record to verify a request. Only admin and the manager of the affect employee can verify. Approved or Rejected request cannot be verified with the status.



1. **Profiles and Edit profile**

In the ‘Profiles’ section, only Admin can access to this.



The view logic is same as the records. You can filter, reset filter, and click on a profile to update the information.

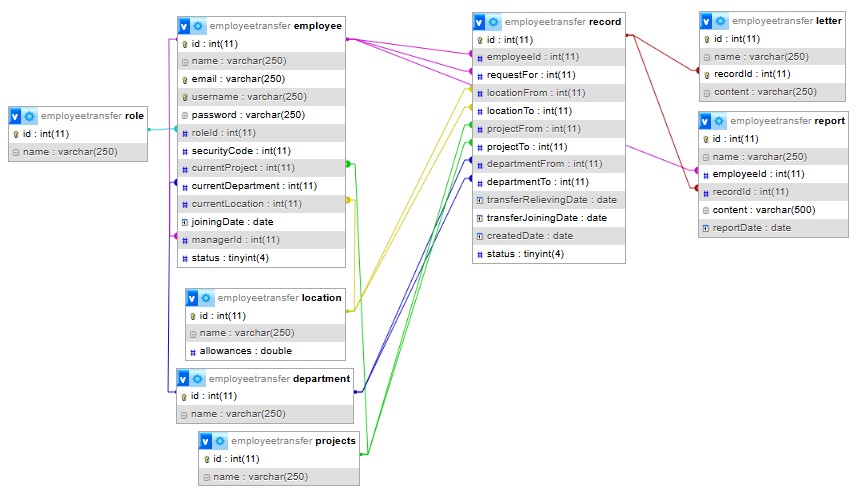


1. **Logout**

In case you want to disconnect with the application, you can choose to logout at the bottom left of the application or in the ‘Account’ menu item on the top left.



1. **Database**
2. ER Diagram



1. Detail of Tables







**CONTRIBUTIONS**

