

# **ROLL OFF**

## **Low Level Design (LLD)**

Date: 17/02/2023

## Contents

1.0	Document Purpose .....	3
2.0	Intended Audience .....	3
3.0	Project Background, Objective(s) .....	3
3.1	Project Background .....	3
3.2	Project Objective .....	3
4.0	Design Pattern .....	3
5.0	Solution Diagram .....	4
6.0	Architecture Diagram .....	4
7.0	Flow Diagram .....	5
8.0	Use case Diagram .....	5
9.0	Class Diagram .....	6
10.0	E-R Diagram .....	7
11.0	User Requirements .....	8
11.1	Hardware .....	8
11.2	Software .....	8
12.0	Developer Requirements .....	8
12.1	Hardware .....	8
12.2	Technology .....	9
13.0	Solution Steps .....	9
14.0	Classes/function .....	9

**1. Document Purpose :**

This document describes the solution architecture for rolling off an employee for an organization.

**2. Intended Audience :**

Sr. No	Role	Functions
1	Account Team	Account Team submit the reason of roll off for particular employee.
2	PSP Team	PSP team will check reasons of roll off and decide whether to approved it or not.
3	Super Admin	If employee is from A grade level then super admin will have access to approve it or not.

**3. Project Background and Project Objective :****3.1 Project Background :**

This application is mainly developed to make the process more efficient and smoother , minimizing the delays that were used to happen initially.

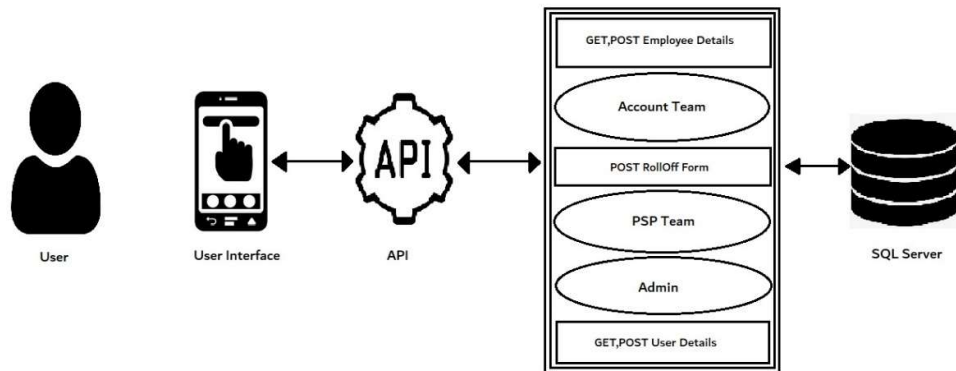
**3.2 Project Objective :**

The main objective if this project is to act as an intermediate between the Account and the PSP department to ease the rolloff process.

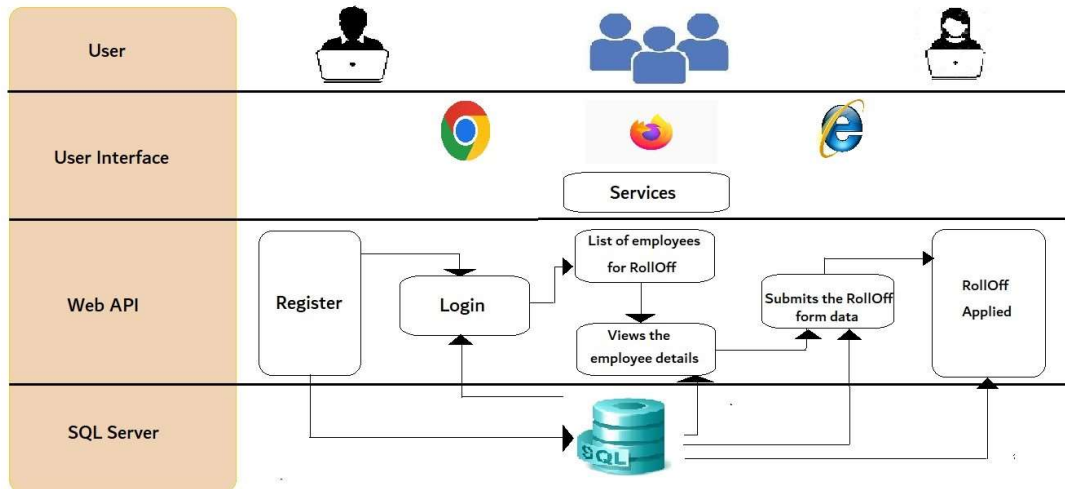
**4. Design Pattern :**

Sr. No	Name	Description
1	ANGULAR	Angular is used for the frontend and designing of the application
2	API	API is used to process all the http Requests and communicate with the database.
3	SQL SERVER	SQL server is used to store data to the database

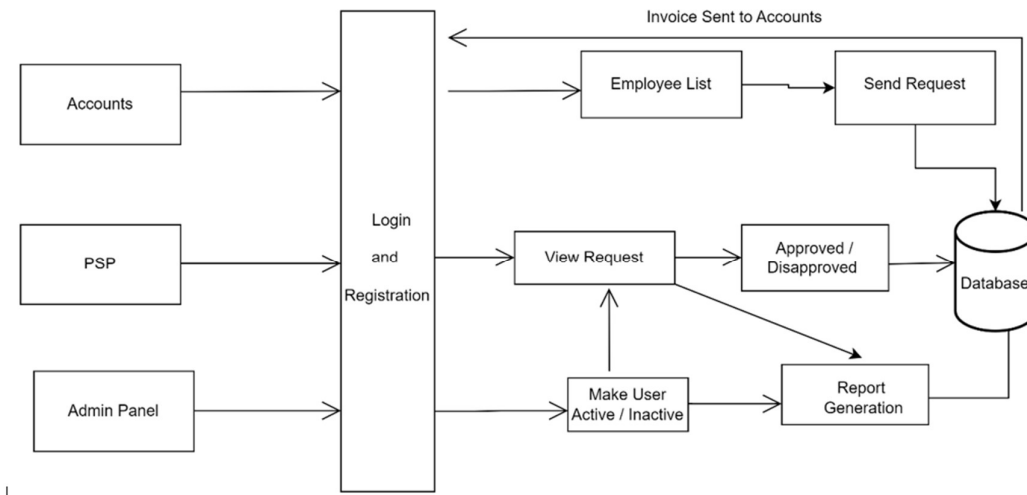
## 5. Solution Diagram :



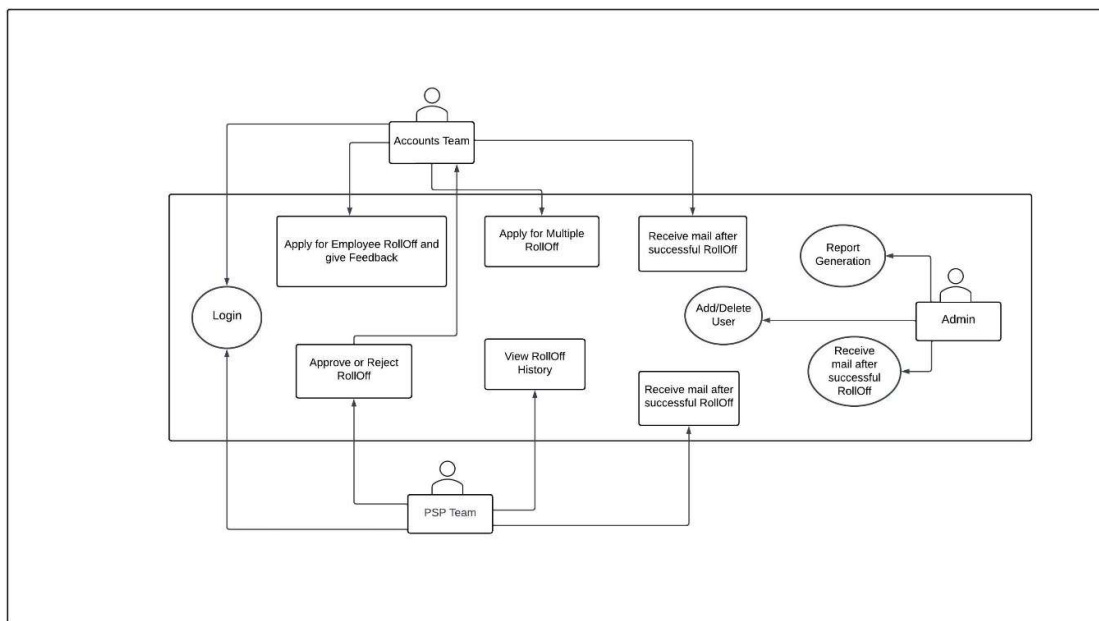
## 6. Architecture Diagram :



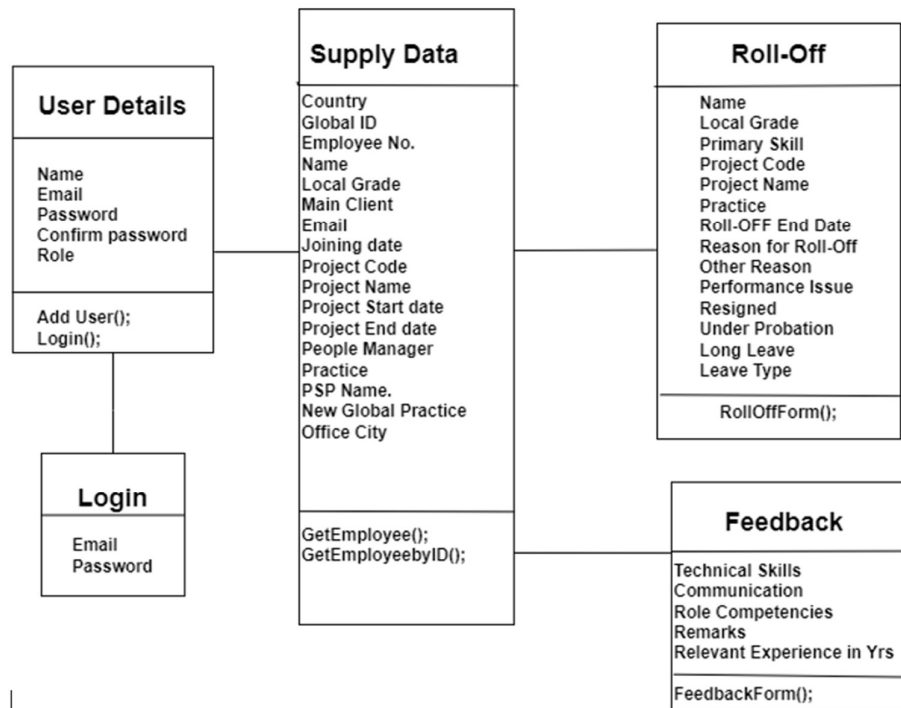
## 7. Flow diagram :

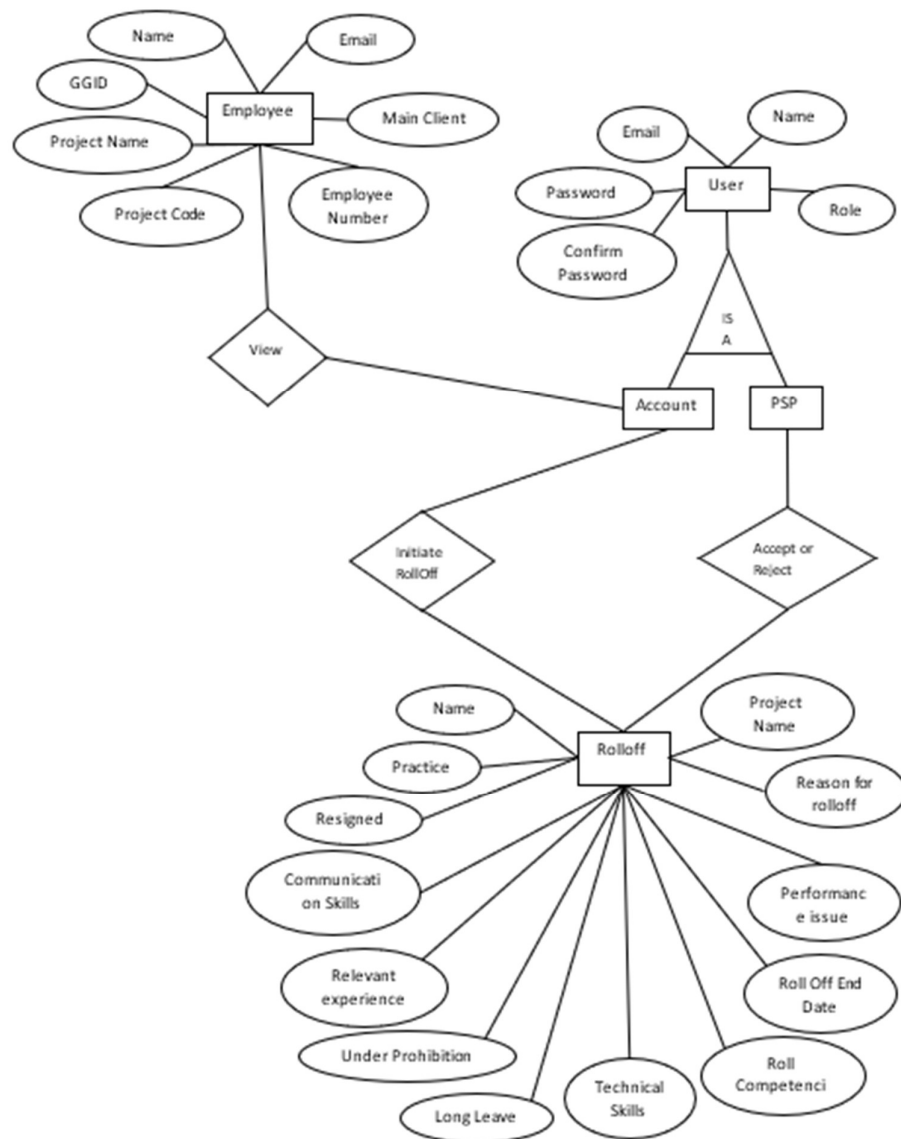


## 8. Use case diagram :



## 9. Class Diagram :



**10. ER Diagram :**

## 11. User Requirements :

### 11.1 Hardware :

- **Processor** : Minimum 1.8 GHz. Recommended 2GHz or more.
- **Internet Connectivity** : Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
- **Hard Drive** : Minimum 100 GB; Recommended 500GB or more.
- **Memory (RAM)** : Minimum 4 GB; Recommended 8 GB or above.
- **Operating System** : Windows.

### 11.2 Software :

- Any Latest Browsers.

## 12. Developer Requirements

### 12.1 Hardware :

- **Processor** : Minimum 1.8 GHz. Recommended 2GHz or more.
- **Internet Connectivity** : Ethernet connection (LAN) OR a wireless adapter (Wi-Fi)
- **Hard Drive** : Minimum 100 GB; Recommended 500GB or more.
- **Memory (RAM)** : Minimum 4 GB; Recommended 8 GB or above.
- **Operating System** : Windows.

### 12.2 Software :

- **For developing API** : Visual studio 2022.
- **Database tool** : SQL Server Management Studio (SSMS).
- **Frontend** : Angular.

### 12.3 Technology :

- ASP.NET for backend
- SQL for the performing the database operations
- Angular for developing frontend.

## 13. Solution Steps :

### 1. User Registration :

The user needs to get registered with valid inputs that include Name, Email, password, confirm password and role.

The inputs will get validated, like none of the above field should be null.

### 2. Rolling Off an employee :

Firstly user should get logged in to the system using valid credentials that are username, password and role. Depending on the role the intended dashboard will get displayed.



Here, the account team will be able to view all the employee details and initiate the process of roll off. The feedback will also be sent by the account team.

### 3. Approving the Rolloff :

Once the roll off is requested, it will get notified to the PSP team, where they will decide whether to accept the request or not.

Before accepting the request, they will look after the condition that if the notice period is less than 30 days it should be sent back to the account team asking for the clarification for the same.

### 4. Feedback :

Feedback is also sent form the accounts teams about an employee who is the process of getting rolled off from the project.

## 14. Classes / Functions :

Sr. No	Class	Description
1	User.cs	Model holds the user schema details
2	RegisterUserController.cs	It contains the core business logic for the registration of Users.
3	RegisterDetailsRepository.cs	This class deals with the data accessibility for user regeistration
4	EmployeeDetailsRepository.cs	This class deals with the data accessibility of the employee details
5	Employee.cs	Model holds the details of the Employee