



# **Employee Management System For Neurale Computing Pvt Ltd**

**Diploma in Software Engineering 22.3F  
Final Project Documentation**

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## **DECLARATION**

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## **PREAMBLE**

### **Abstract**

This report presents an extensive overview of the newly formed Employee Management System(EMS) app designed for the upcoming software company Neurale. This EMS caters to the crucial needs for an effective & efficient management of employees within the firm. EMS comes with various built-in functionalities incorporating task assigning & completion, performance evaluation, compensation administration aimed at refining Accounting & HR processes enhancing overall productivity. These features collectively strengthen maximum resource optimization, guarantee adherence and ensure employee satisfaction by offering a translucent and easily accessible management system.

This report outlines the app's functionalities, initiatives taken during its implementation, the significant benefits EMS brings aboard, the app's potential to revolutionize the ongoing management procedures and align with the firm's calculated goals.

## **List of Keywords**

- Managing Director
- Manager
- Employee
- Accountant
- HR

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## **List of Acronyms and Abbreviations**

UI – User Interface

UML – Unified Modelling Language

ER – Entity Relationship

PK – Primary Key

FK – Foreign Key

## Acknowledgement

We would like to express our sincere gratitude to all individuals and organizations who have contributed to the development and completion of the Employee Management System (EMS) document.

First and foremost, we extend our heartfelt appreciation to our team members who have dedicated their time, effort, and expertise to conceptualize and design the EMS. Their commitment and collaborative spirit have been instrumental in shaping the system's features and functionality.

The continuous feedback and insights provided by the Human Resources Department ensured that the system was developed to meet the specific needs of Neurale Pvt (Ltd), paving the path to solve current challenges & make this a future proof system for the firm.

Furthermore, we would like to extend our sincere appreciation to the senior management team at Neurale Company PVT(Ltd). for their well thought vision and unwavering support, and our heartfelt thanks to all the departments and individuals who contributed directly or indirectly to the completion of this project.

Thank You!

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## **Chapter 1: Introduction**

### **1.1 Introduction of the Organization**

- Neurale software company in Galle offers a helping hand to all small and medium enterprises scale to large global enterprises and grow beyond their comfort zones.
- Mr. Ilthizam Imtiyas the head of the company, manages all the sectors in the company and is responsible for all decision-making in the company.
- This company has many employees who oversee providing high-quality software products.
- We propose a project to develop an employee management system customized to the unique requirements of the firm. This system will improve current operations and challenges while developing the foundation for more efficient and expandable business processes. We believe in improving productivity, reducing operational obstacles, and improving overall decision-making by implementing this management system.

## 1.2 Organization Structure

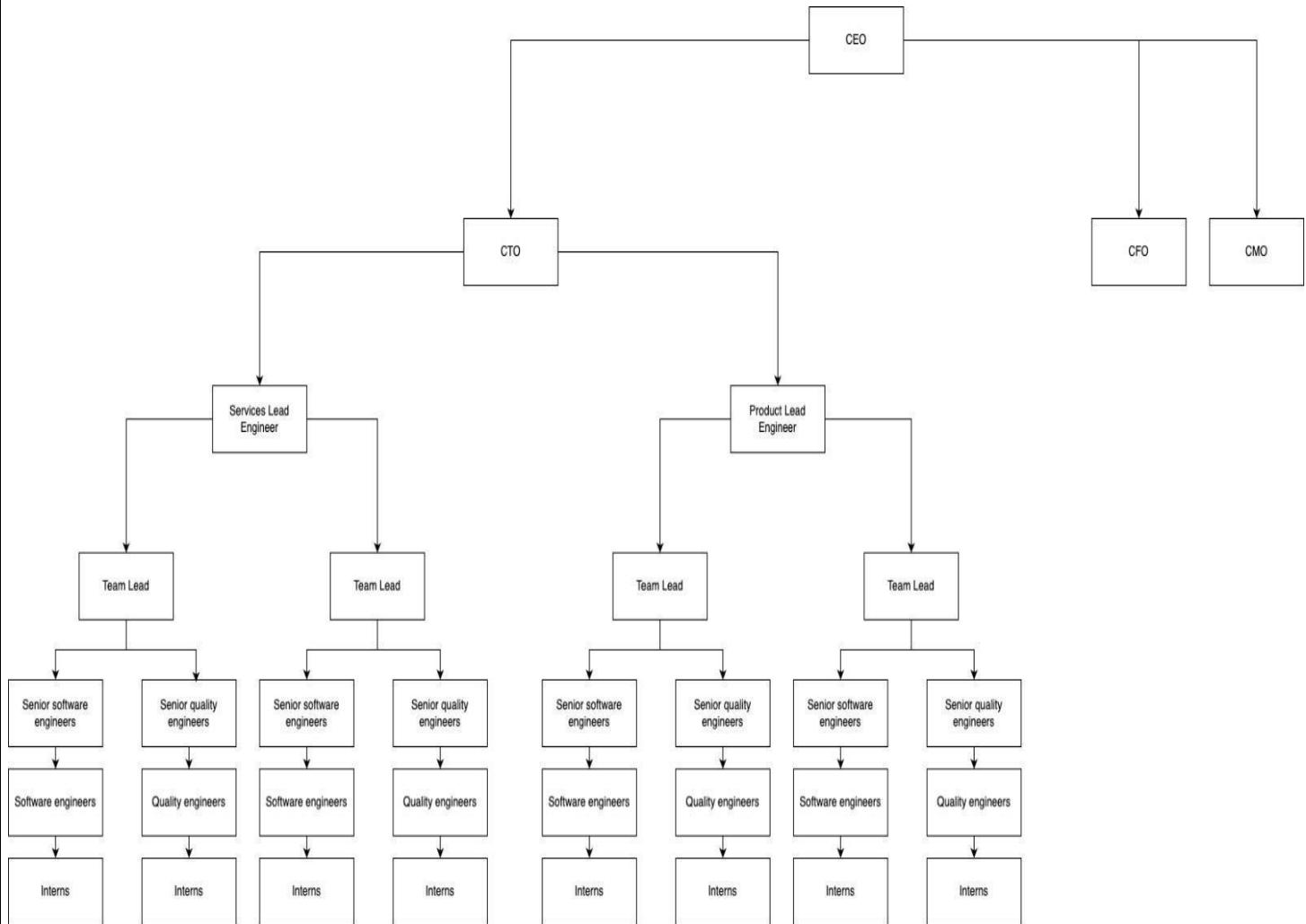


Figure 1 Organization Structure

## 1.3 Current Operation in Organization

Currently, traditional methods such as file-based systems are being used by companies to handle their human resources activities. There's no computerized system to access any employee information, because of that if they want to access any employee's information such as an appointment date, academic qualifications, salary expenses, leaves, working experience they need to search for all information manually.

Updating the qualifications of employees who have completed further studies is not accurately done by the existing system. Work allocation and responsibilities entrusted are sometimes incompatible with the qualifications and experience of the employees.

There are different types of employment among the staff. There is no proper way to analyze an employee's performance, due to this fact many complications arise when it comes to calculation of salary, increments, bonuses etc.

When applying for leave, time wastage takes place due to the need to manually refer to leave registers and during the process, delays occur in getting approval from authorized personnel.

The proposed system will help to solve the inefficiencies involved with the manual system and enhance the performance of the company administration.

#### 1.4 Users and Responsibilities Organization

- **Company Staff:**

- ❖ Managing Director: Responsible for managing all the sectors in the company, setting goals and making decisions.
- ❖ CMO: oversees marketing efforts, customer service, and use sales techniques to draw in new clients.
- ❖ CTO: responsible for overseeing the organization's technology strategies and development.
- ❖ Services Lead Engineer: Responsible for leading and managing a team of engineers who provide services to customers. This role involves a combination of technical expertise and leadership skills to ensure the successful delivery of software-related services.
- ❖ Product Lead Engineer: Expected to provide technical guidance and mentorship to the development team, making technical decisions, and solving complex technical challenges.
- ❖ Team Lead: Ensure the successful execution of projects, manage the development team, and facilitate effective communication within the team and with stakeholders.

- ❖ Senior Quality Engineers: Involves in designing, implementing & testing strategies, collaborating with development teams, and identifying areas for improvement in the software development process.
- ❖ Software Engineer: Responsible for designing, developing, testing, and maintaining software systems and applications.
- ❖ Quality Engineers: Responsible for ensuring the quality and reliability of software applications through various testing and quality assurance processes.
- ❖ Interns: Student or recent graduate who is undergoing a temporary and supervised period of practical training and work experience within the company.

#### 1.4 Problem Definition

- **Data Security and Privacy:** To prevent data breaches and guarantee compliance with privacy laws like GDPR or HIPAA, managing sensitive employee data, such as personal information, financial data, and performance records, calls for strong security measures.
- **Integration Challenges:** It can be difficult to smoothly integrate several HR elements into a unified system. It can be technically challenging to guarantee seamless data flow across leave management, salary processing, performance evaluation, and other modules.
- **Scalability Issues:** Our employee management system needs to expand with your business to handle a larger staff and more data. Issues with scalability might impact the responsiveness and performance of the system.
- **User Adoption and Training:** Employees and HR staff need to adapt to the new system. Providing proper training and ensuring user-friendly interfaces is essential to avoid resistance and mistakes in data entry.
- **Data Accuracy and Consistency:** It is essential to keep data correct and consistent throughout all modules. Payroll inaccuracies, disagreements, and ineffective HR procedures might result from inaccurate or inconsistent data.
- **Customization and Flexibility:** Workflows, policies, and requirements of each individual firm must be considered by employee management systems. It can be difficult to find the ideal balance between system integrity and personalization.

## 1.5 Project Objectives

**Efficient Employee Data Management:** Implement a system that streamlines the storage and retrieval of employee data, including personal information, employment history, and contact details.

**Leave Management:** Create a module that allows employees to request and managers to approve or deny leave requests, ensuring smooth scheduling and minimal disruptions.

**Salary Processing:** Develop a module for accurate and timely salary processing, including deductions, bonuses, and tax calculations, reducing payroll errors and delays.

**Performance Evaluation:** Implement a performance evaluation system to assess and track employees' performance, providing a basis for recognition, rewards, and career development.

**Employee Registration and Onboarding:** Simplify the onboarding process by enabling new employees to register, complete necessary paperwork, and get acquainted with company policies and culture.

**Project Allocation and Task Management:** Assign tasks to staff members, keep an eye on their progress, and make sure that resources are used as efficiently as possible to facilitate project allocation.

**Integration with Other HR services:** To guarantee a complete HR solution, seamlessly integrate the system with other HR services including hiring, training, and talent management.

**User Adoption and Training:** To guarantee that workers and HR personnel can utilize the system efficiently, lower error rates, and increase user happiness, offer training and assistance.

**Employee Engagement and Satisfaction:** Boost these metrics by developing an intuitive system that streamlines administrative tasks and streamlines HR procedures.

**Key Performance Indicator (KPI):** Each Employees got KPI for attendance, leave and task completion.

**Report Generation:** Generate Reports for KPI, attendance, OT, loan Request, no pay, bonus.

## 1.6 Proposed Solution

### **Data Security and Privacy:**

- To safeguard sensitive data, robust encryption techniques and access controls are put in place.
- Regular security update measures are taken to stay ahead of evolving threats.
- Conduct employee training on data security, best practices and the importance of data protection.

### **Integration Challenges:**

- Use APIs and middleware for seamless integration between various HR modules.
- Working with a skilled development team to ensure smooth data flow and consistent communication between modules.
- Test integrations frequently to find and fix problems as soon as possible.

### **Scalability Issues:**

- Choose software architecture and infrastructure that will grow with the company.
- To keep the system responsive, monitor its performance and make any resource adjustments.
- Simplify storage and database architecture in order to get ready for growing data volumes.

### **User Adoption and Training:**

- To guarantee usability, create user-friendly interfaces and test them with real users.
- Provide comprehensive training programs for employees and HR staff to familiarize them with the system.
- Offer ongoing support and resources to address user concerns and questions.

### **Data Accuracy and Consistency:**

- Implement data validation checks and error handling to prevent data inconsistencies.
- Regularly audit and clean data to maintain accuracy.
- Use data validation rules and automated data synchronization between modules.

### **Customization and Flexibility:**

- Use a modular and customizable software architecture.
- Give administrators the tools they need to set up the system to comply with the unique policies and procedures of the company.
- Conduct regular reviews to ensure that customization and system integrity are balanced.

## 1.7 Chapter Summary

This project proposal describes our strategy for creating an extensive employee management system that is customized to meet the requirements of Neurale Software Company. Our suggested system will simplify payroll processing, streamline leave and performance management, increase employee data management, and offer a safe, user-friendly platform all while focusing on solving important HR concerns. By doing this, we hope to promote a healthy work environment, increase operational efficiency, and encourage data-driven decision-making. We think that this project will give Neurale Software Company a competitive edge in the software market, long-term growth, and contented employees.

## **Chapter 2: Methodology**

### **2.1 Introduction**

This chapter outlines the methodology that will be employed to develop the Employee Management System. It includes data collection methods, the software process model, software development tools, testing strategies, and the implementation plan.

### **2.2 Data Collection Methods**

#### **❖ Interviews**

This would be the most effective way to gain more knowledge about the company and its systems, enabling us to assess the issues and provide a solution that considers the scope of each one.

#### **❖ Questionnaires**

To gain further insight into the company's operations and hierarchical structure, we devised a questionnaire for senior management. We can determine which stakeholders are more powerful and what level of access each stakeholder may have with the use of this information.

#### **❖ Employee Surveys**

Periodic surveys or feedback forms are distributed to employees through the EMS to gather information on job satisfaction, workplace culture, and other relevant topics.

## 2.3 Software Process Model

### SDLC model: Agile Model

The Agile model is often a suitable choice for software development projects, including an Employee Management System (EMS), due to its flexibility, iterative nature, and emphasis on collaboration. Here are some reasons why the Agile model might be a good fit for developing an EMS for Neurale company.

Reasons for us to choose Agile Model:

- Changing Requirements:

Flexibility: Agile is appropriate for projects with developing or indistinct necessities. With regards to an EMS, HR cycles and necessities might change after some time because of hierarchical development, strategy updates, or industry changes. Agile considers continuous adaptations to accommodate such changes.

- Iterative Development:

Incremental Releases: Agile promotes iterative development with regular releases of functional increments. This allows for the delivery of usable features at the end of each iteration, enabling stakeholders to provide feedback early in the development process.

- Stakeholder Collaboration:

Regular Feedback: Agile emphasizes continuous collaboration with stakeholders, including HR personnel and end-users. Regular feedback ensures that the system aligns with user expectations, and adjustments can be made quickly based on that feedback.

- Risk Management:

Early Identification of Issues: Agile allows for early identification of issues and risks through continuous testing and feedback. This can be particularly valuable in the complex domain of HR management, where compliance and data accuracy are critical.

## 2.4 Software Development Tools

- Microsoft Visual studio



Microsoft created Visual Studio, a well-liked Integrated Development Environment (IDE) that programmers use to construct a variety of programs including desktop, cloud-based, mobile, and online apps.

- MySQL



The open-source relational database management system (RDBMS) MySQL is renowned for its dependability, speed, and user-friendliness. MySQL, created by Oracle Corporation, is a key component of many online applications and software systems as it is extensively used to store and handle structured data. Data security, scalability, and compatibility for several programming languages are among its characteristics. It also allows data searching and manipulation using SQL (Structured Query Language).

- Xampp Server



A cross-platform web server solution that is free and open-source that makes setting up a local web development environment easier is called XAMPP. With the help of essential components like the MySQL database, PHP, Perl, and Apache web server, developers may easily design and test websites and web applications on their local PCs.

## 2.5 Testing Strategies

Our Employee Management System (EMS) is being developed through a rigorous procedure that includes many testing phases to guarantee the construction of a reliable and efficient solution. In order to ensure smooth interactions between system components, identify and address potential issues at various stages of development, validate overall system functionality, and confirm user satisfaction, we use a comprehensive testing strategy that includes Unit Testing, Integration Testing, System Testing, and User Acceptance Testing (UAT).

- **Unit Testing:**

During the first stage of development, our team thoroughly tests each of the EMS's distinct parts and features separately. This guarantees that every code unit, including functions and modules, operates correctly and satisfies established specifications. Our testing approach is based on unit testing, which creates a dependable codebase and addresses problems at the smallest possible level.

- **Integration testing:**

Integration testing gets more and more important as development moves along. To make the EMS work as a cohesive unit, this phase focuses on evaluating the interactions between the various modules or components. By assisting in the detection and correction of any problems that may occur when combining different modules. Integration testing helps to create a smooth flowing EMS.

- **System Testing:**

The next stage is System Testing, where we confirm the EMS's general functionality. System testing evaluates the system as a whole, making sure that all parts perform as one to provide the desired features and functions. This stage is essential in ensuring that the EMS satisfies all the detailed requirements listed for its deployment.

- User Acceptance Testing (UAT):

This is the last stage of testing, during which stakeholders or end users are provided with the EMS for assessment. Through User Acceptance Testing (UAT), we directly collect user feedback and verify that the system meets their needs and expectations. By keeping the demands of its target audience in mind, the user-centric approach guarantees that the EMS not only exceeds technical requirements but also meets user-friendly standards.

## 2.6 Implementation Plan

This staged Implementation plan lines up with the Stage-In approach, facilitating a smooth and efficient transition from the old framework to the new Management Framework. By taking on a continuous progress technique, the association intends to limit interruptions to everyday tasks, moderate dangers related with the presentation of huge changes and encourage a flexible culture among clients.

## 2.7 Chapter Summary

We are working on an application that will allow Neurale Computing Pvt (Ltd) to achieve as convenient and real-time HR process as possible.

Lastly, we have decided to employ the following techniques for better understanding of the company's structure and processes:

- Questionnaires
- Interviews
- Employee Surveys

And, we have decided to use the Agile model as the SDLC model which make the development process more flexible and adaptable.

Furthermore, the following development tools will be used to create this application:

- MYSQL
- XAMPP Server
- Microsoft Visual Studio

Software testing strategies and implementation plans have been established to ensure that the application is developed as planned.

## **Chapter 3: Analysis**

### **3.1 Introduction**

This analysis section offers a comprehensive evaluation of the Employee Management System (EMS). The focus is on examining the system's performance, functionalities, and overall impact on the organization.

The process begins with a comprehensive examination of system requirements, involving detailed discussions with stakeholders to gather necessary details. Simultaneously, an assessment of the system's limitations identifies constraints that might impact design and implementation. Potential solutions are then explored to meet requirements within these constraints, balancing functionality, cost, and feasibility.

This iterative, multi-faceted approach to system analysis ensures a thorough understanding of both the current state and the desired future state of the system. By continuously refining the analysis based on new information and feedback, the process aims to develop a system that effectively meets the organization's needs, addresses its limitations, and maximizes potential benefits while managing costs effectively.

## 3.2 UML Diagram

### 3.2.1 Use Case Diagram of Manual System

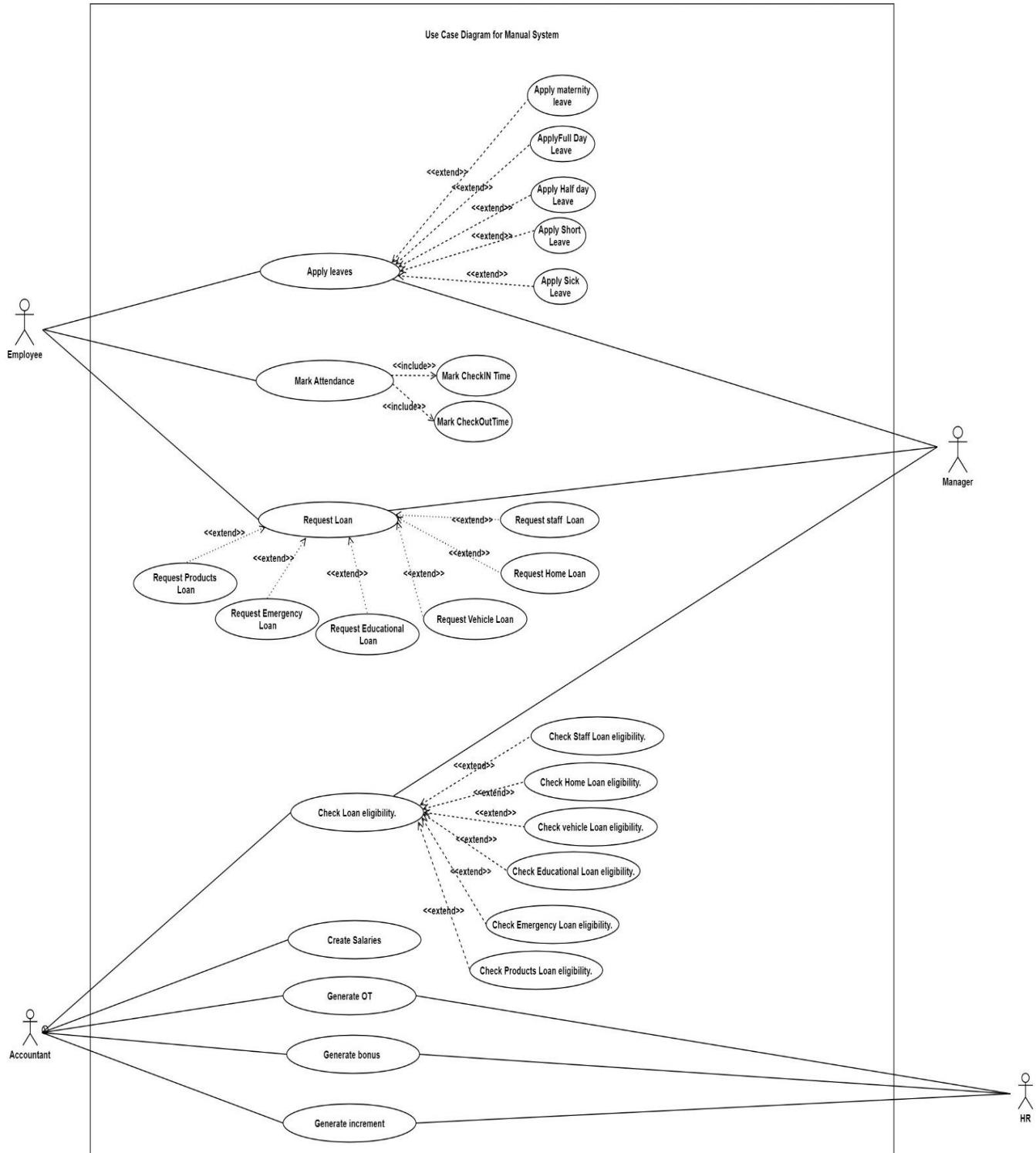


Figure 2 Manual use case diagram side 1

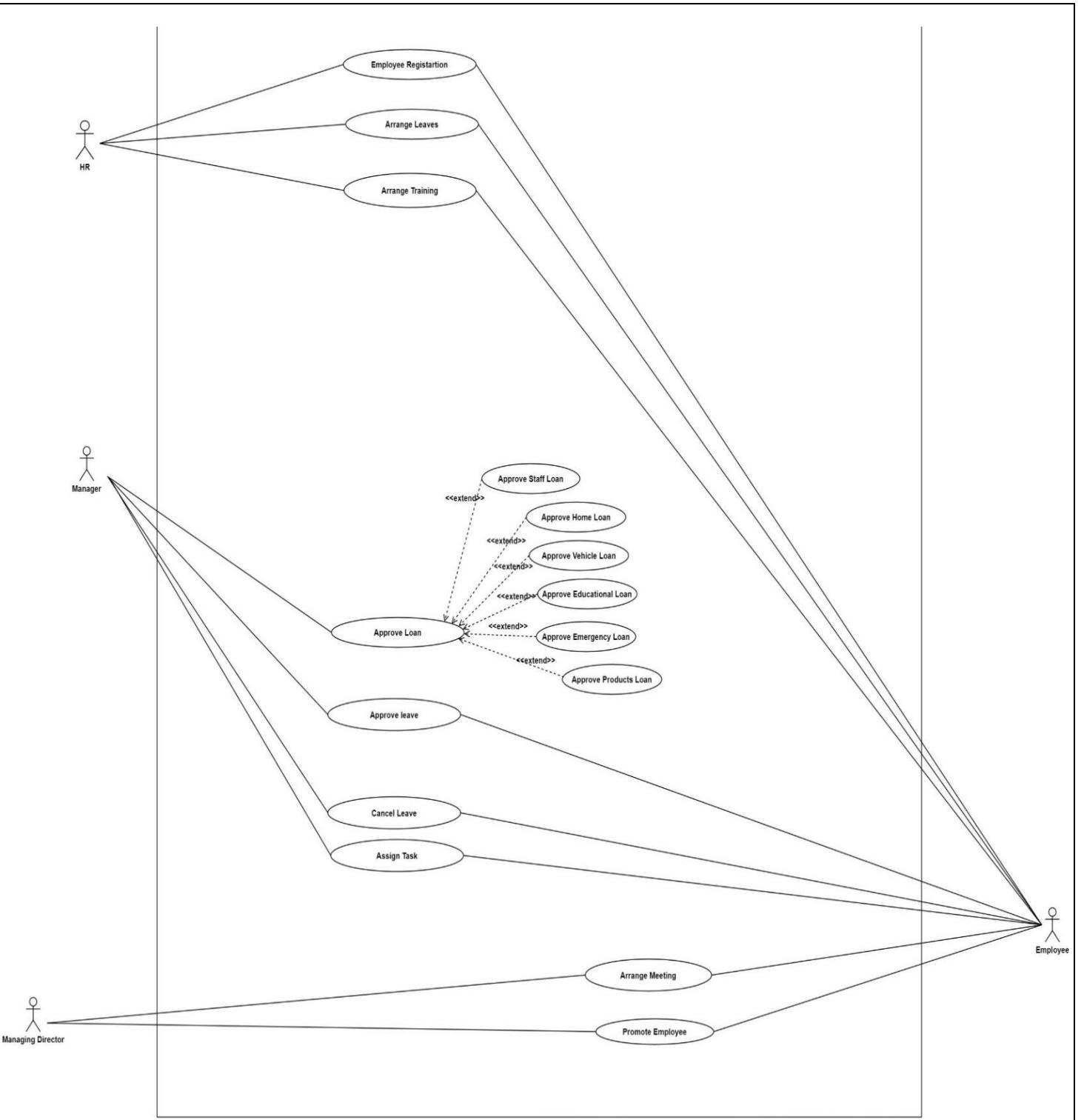
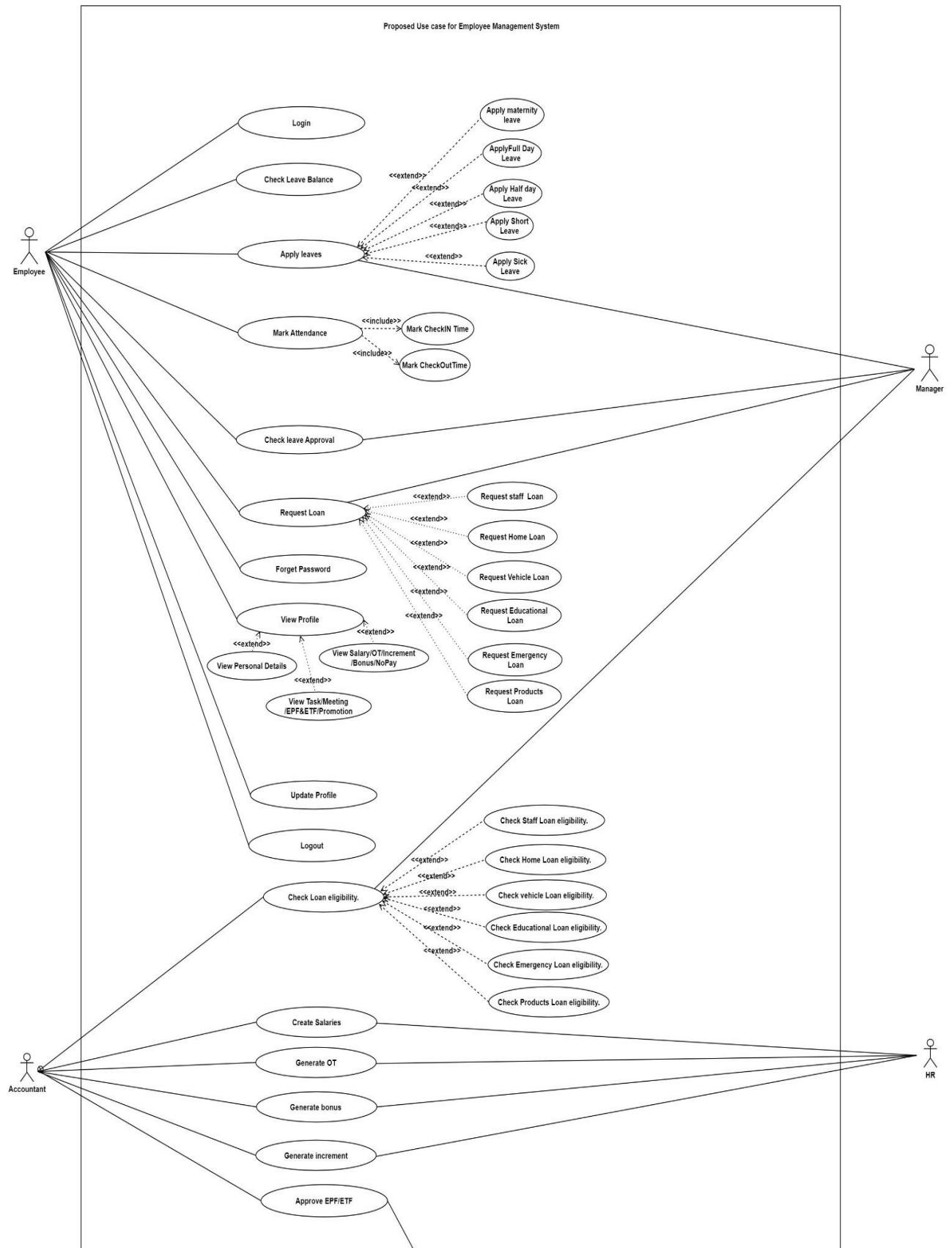


Figure 3 Manual use case diagram side 2

### 3.2.2 Use Case Diagram of Proposed System



*Figure 4 Proposed use case diagram side 1*

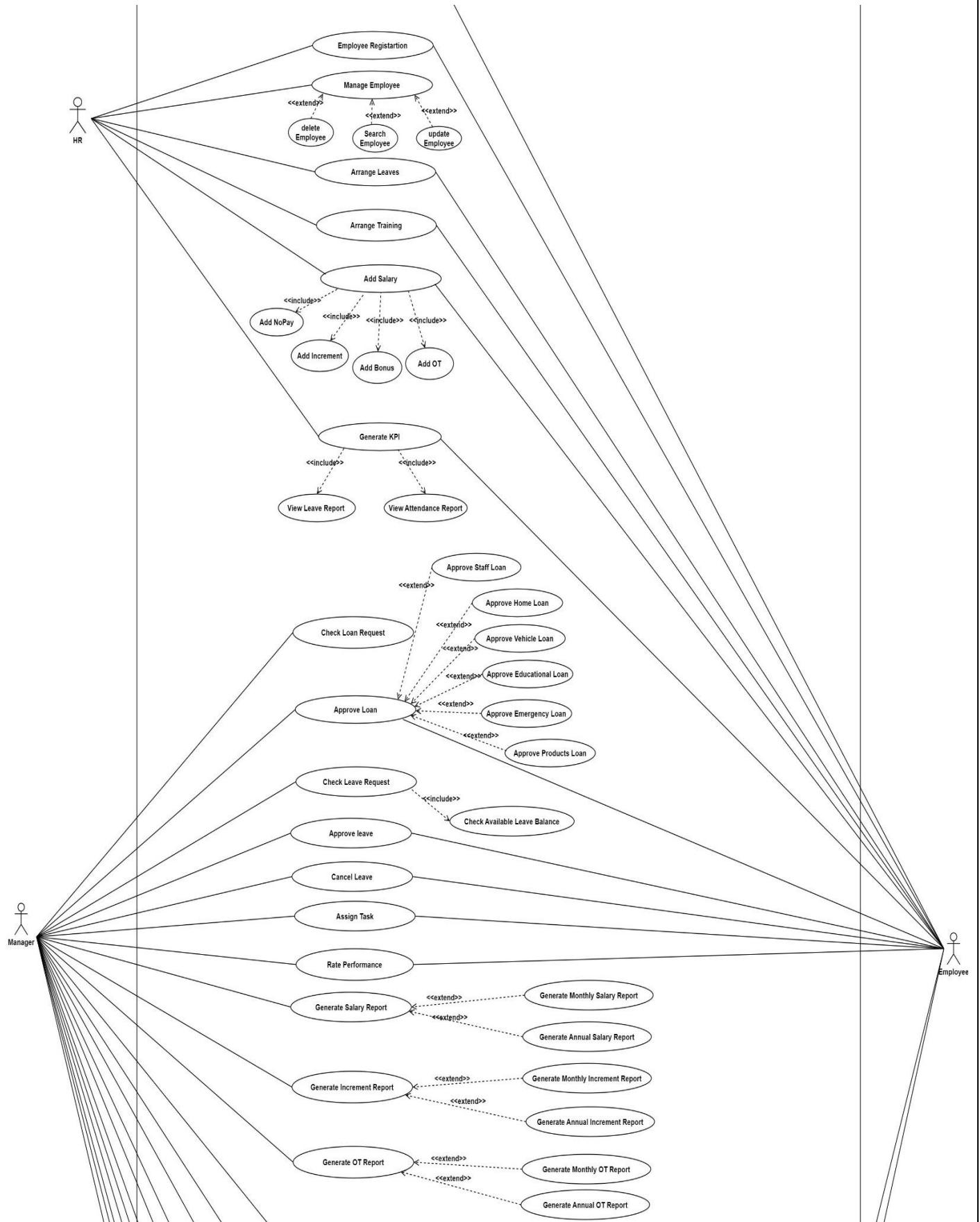


Figure 5 Proposed use case diagram side 2

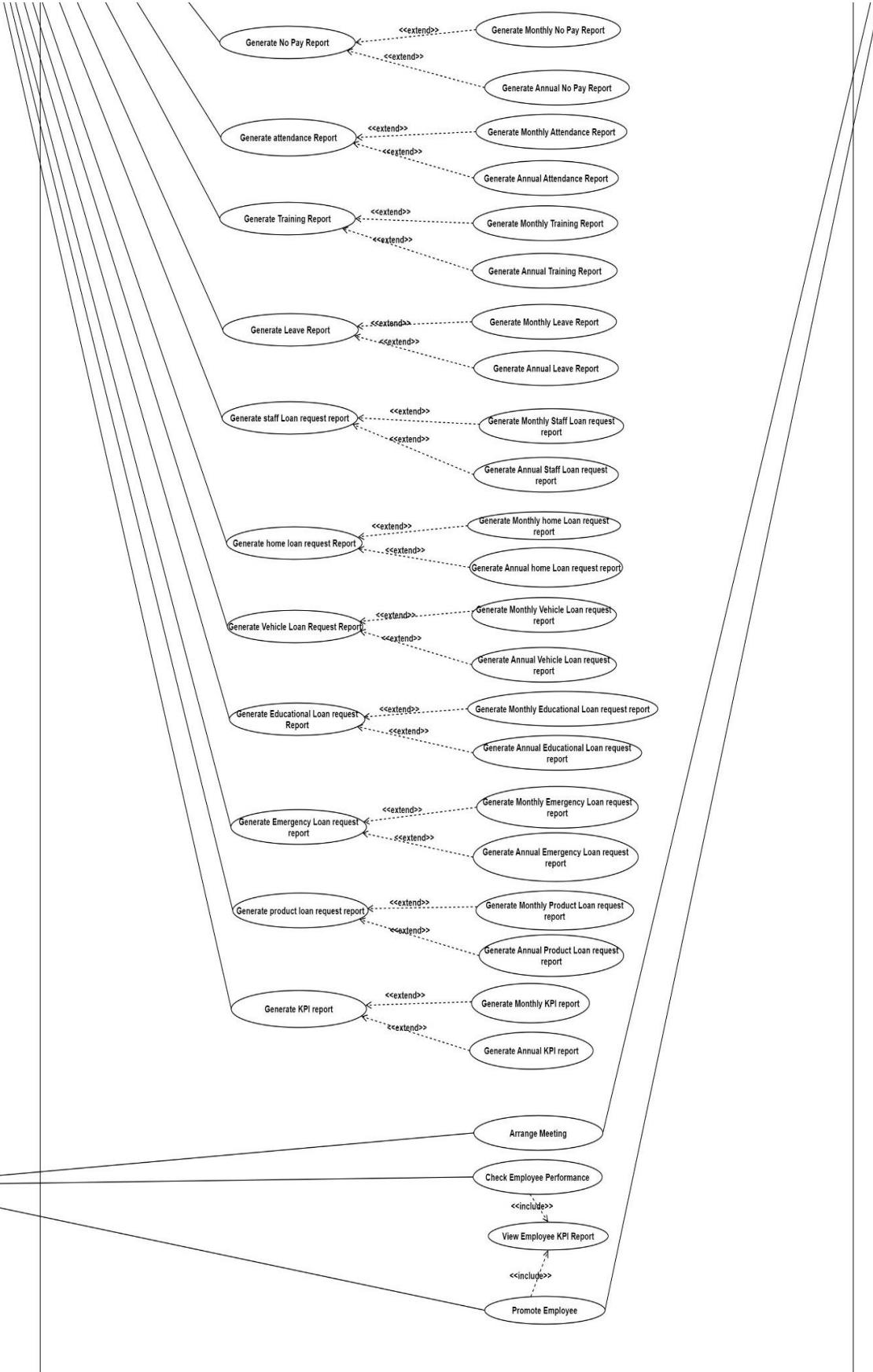


Figure 6 Proposed use case diagram side 3

### 3.2.3 Class Diagram of Proposed System

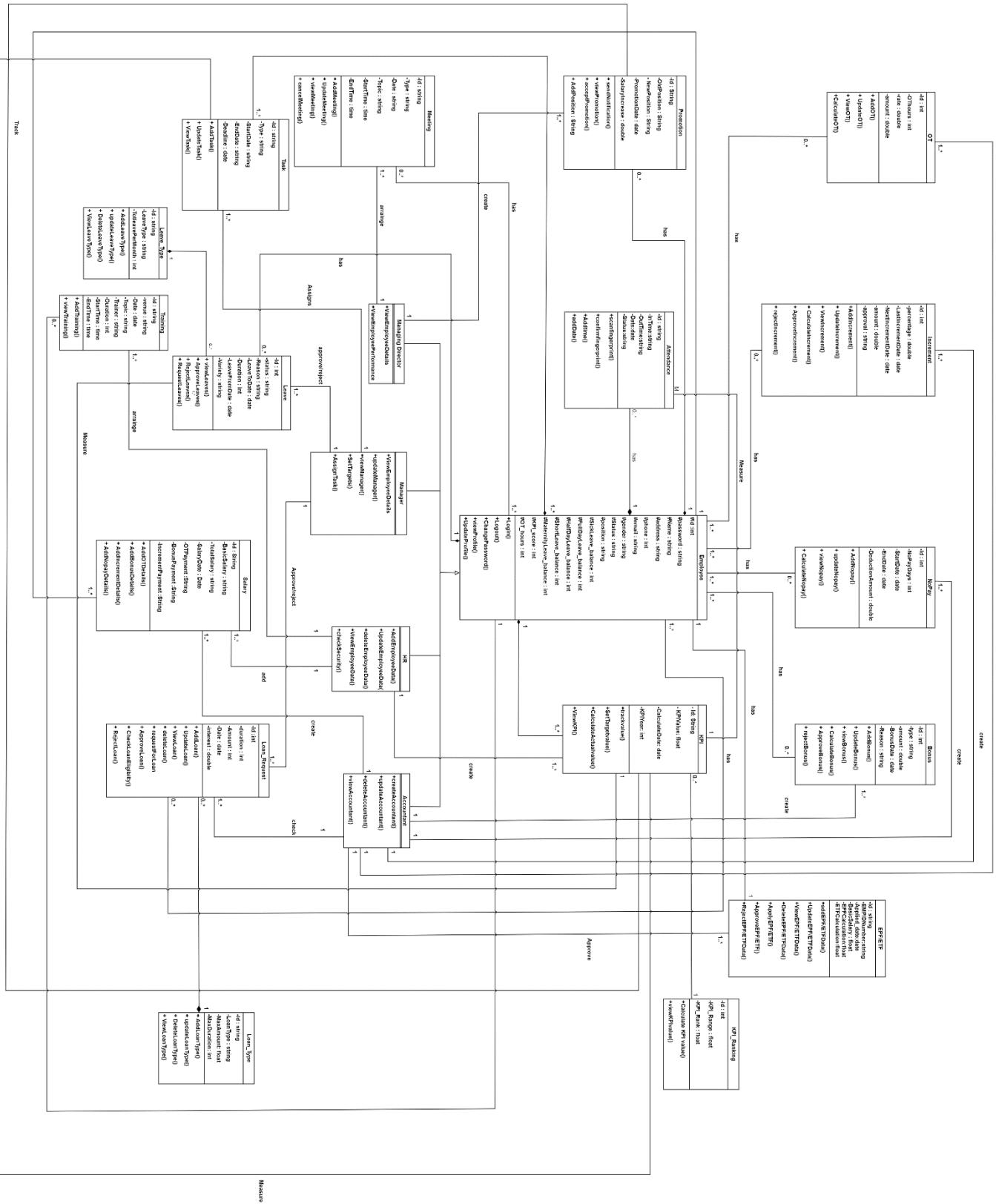


Figure 7 Class diagram

### 3.24 Sequence Diagrams of Proposed System

#### Sequence Diagram for Login Employee Use Case Diagram

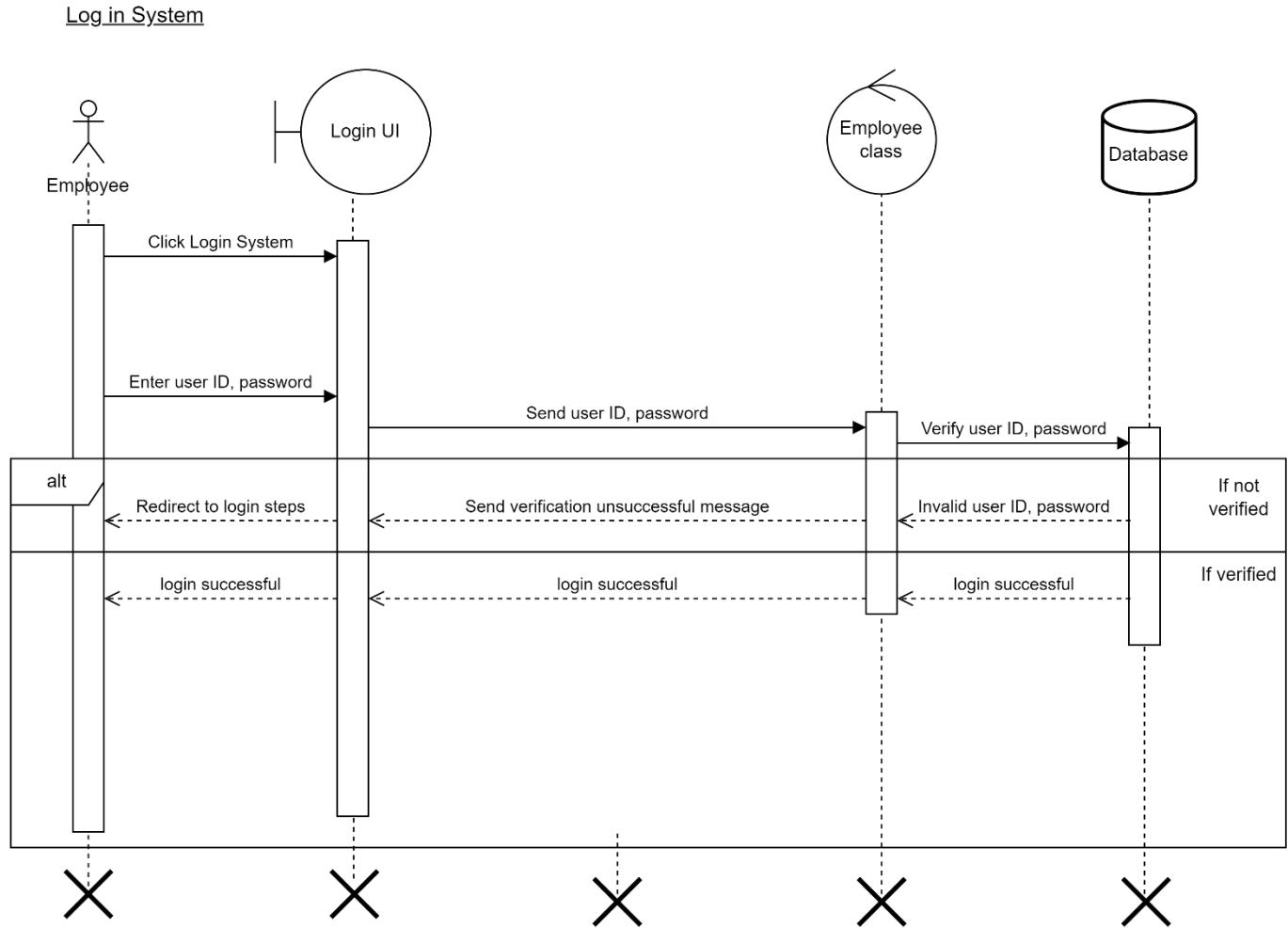


Figure 8 Employee Login Sequence

## Sequence Diagram for Mark Attendance Use Case Diagram

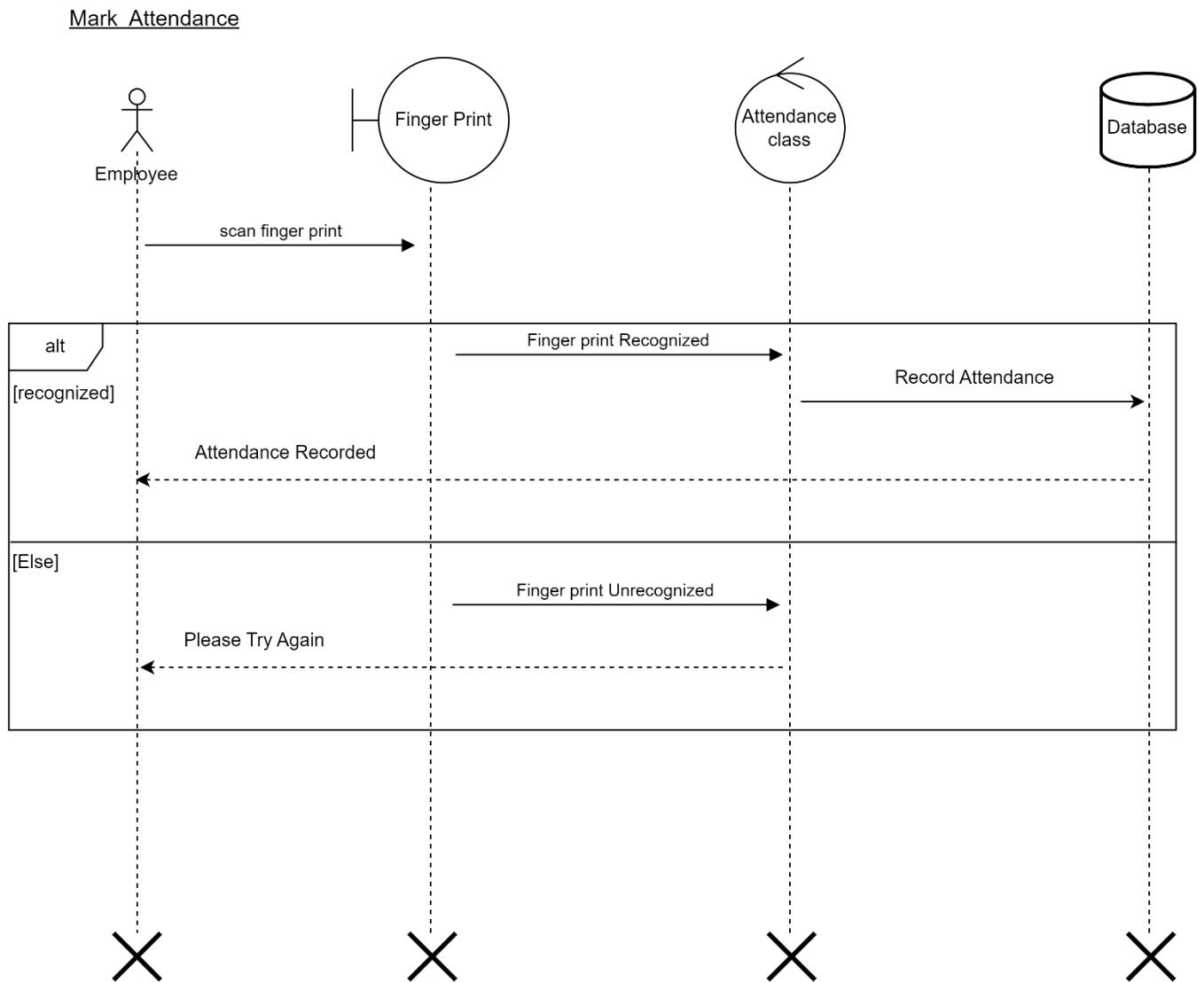


Figure 9 Employee mark attendance Sequence

## Sequence Diagram for Check Leave Balance Use Case Diagram

### Check Leave Balance

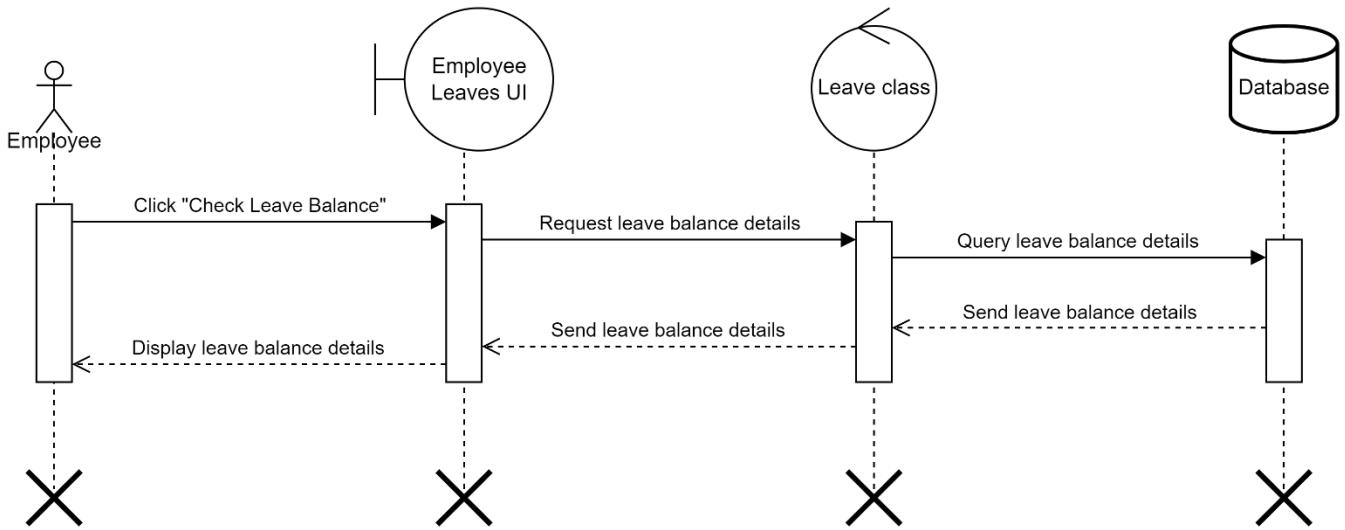


Figure 10 Employee Check leave Sequence

## Sequence Diagram for Apply Leaves Use Case Diagram

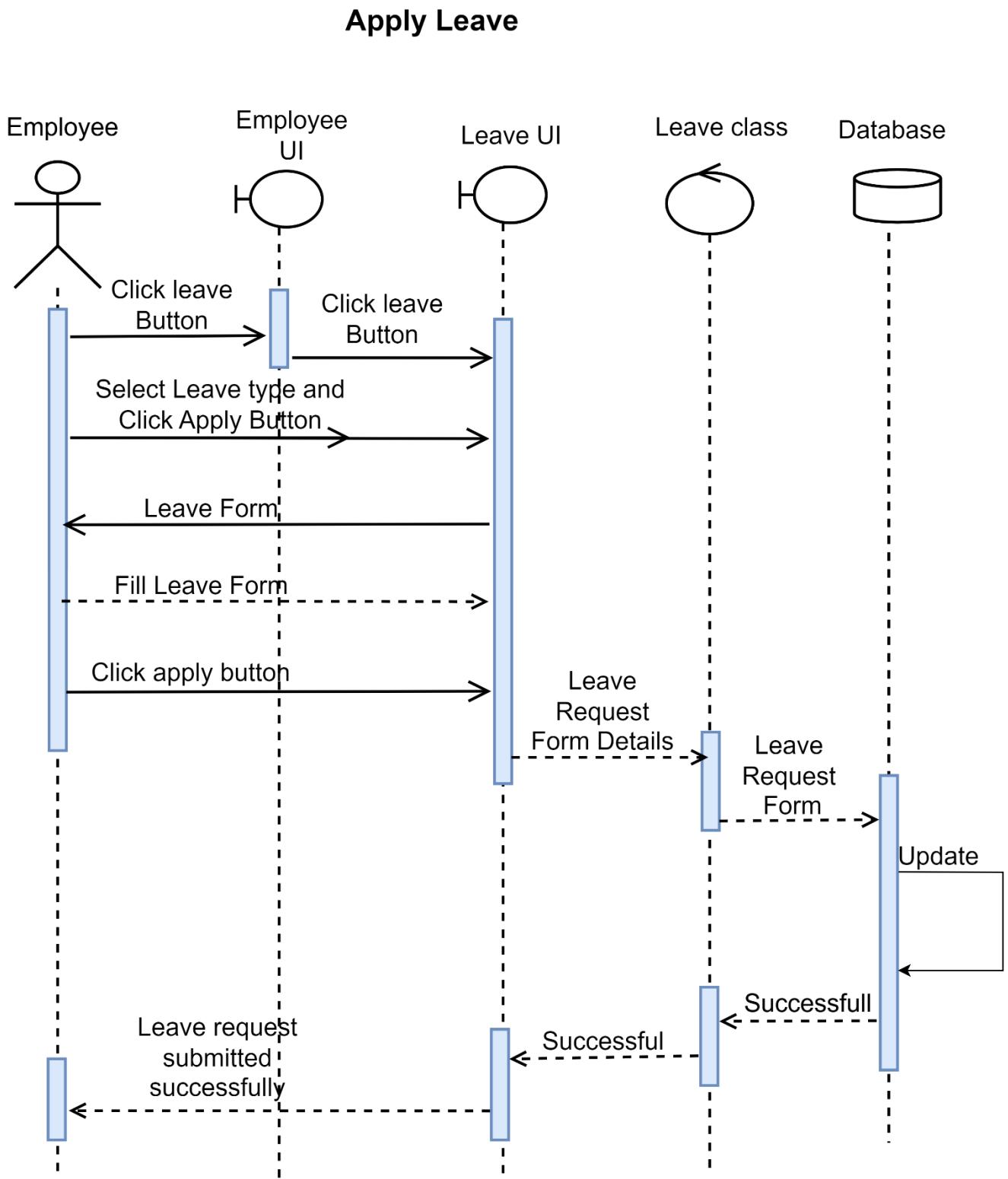


Figure 11 Employee Apply leave Sequence

## Sequence Diagram for Check Leave Approval Use Case Diagram

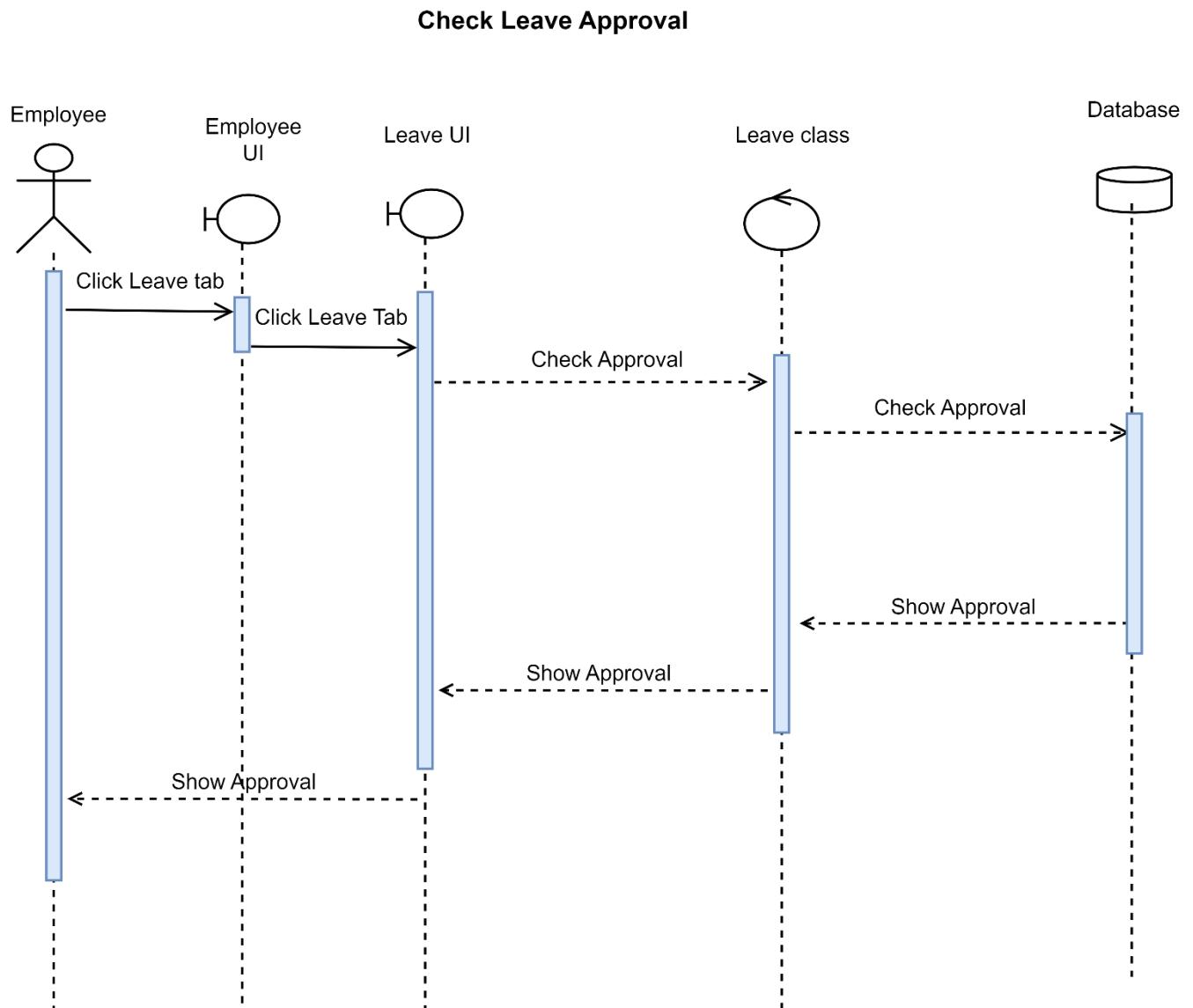


Figure 12 Employee check leave approval Sequence

## Sequence Diagram for Request Loan Use Case Diagram

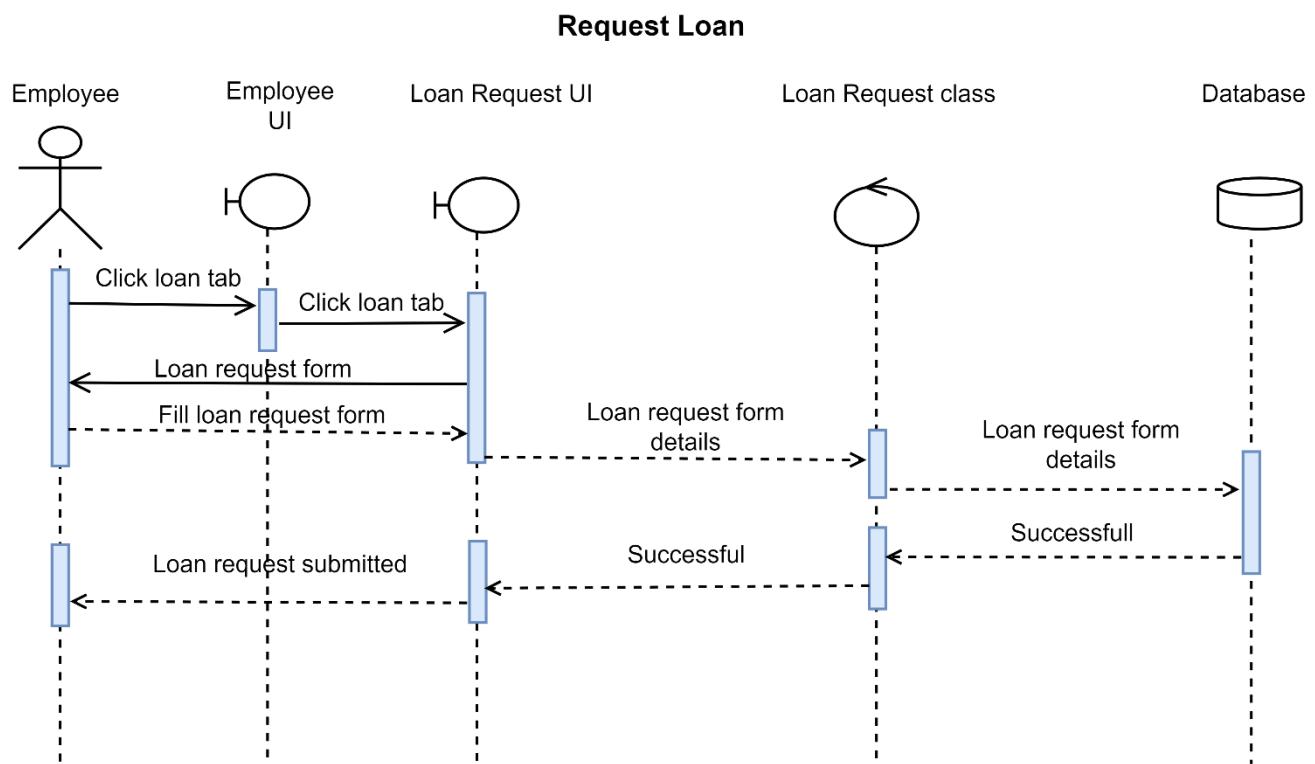


Figure 13 Employee request Loan Sequence

## Sequence Diagram for Forget Password Use Case Diagram

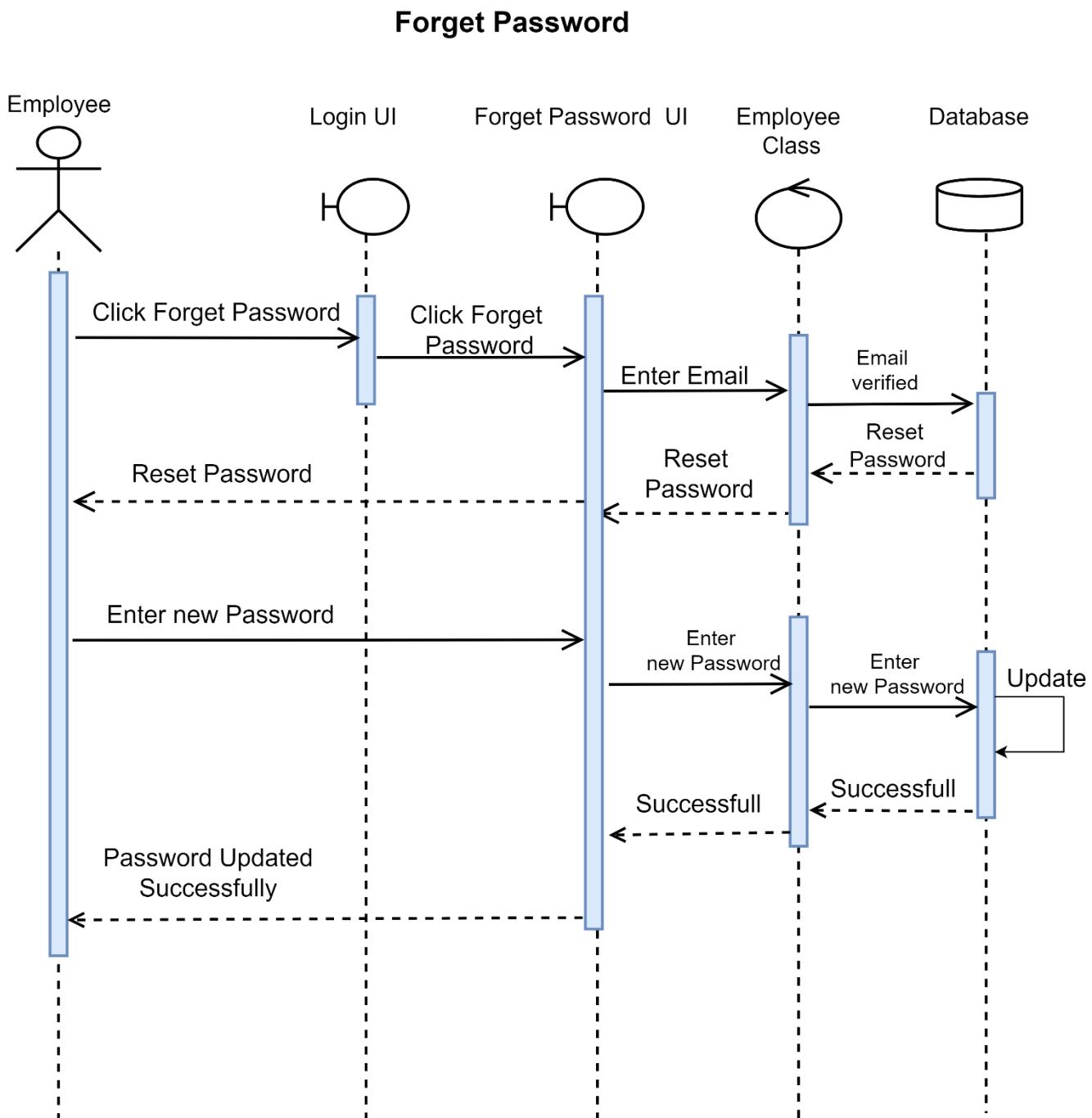


Figure 14 Employee Forget Password Sequence

## Sequence Diagram for View Employee Profile Use Case Diagram

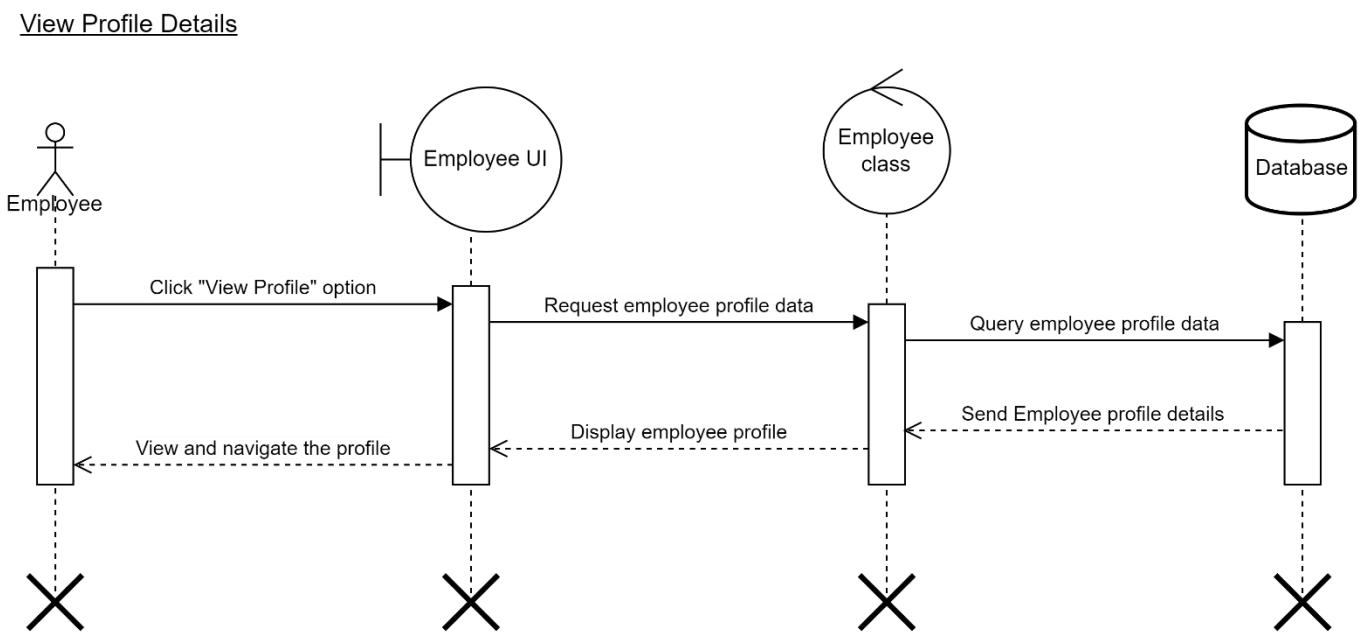


Figure 15 Employee view profile details Sequence

## Sequence Diagram for Update Employee Profile Use Case Diagram

### Update Profile Details

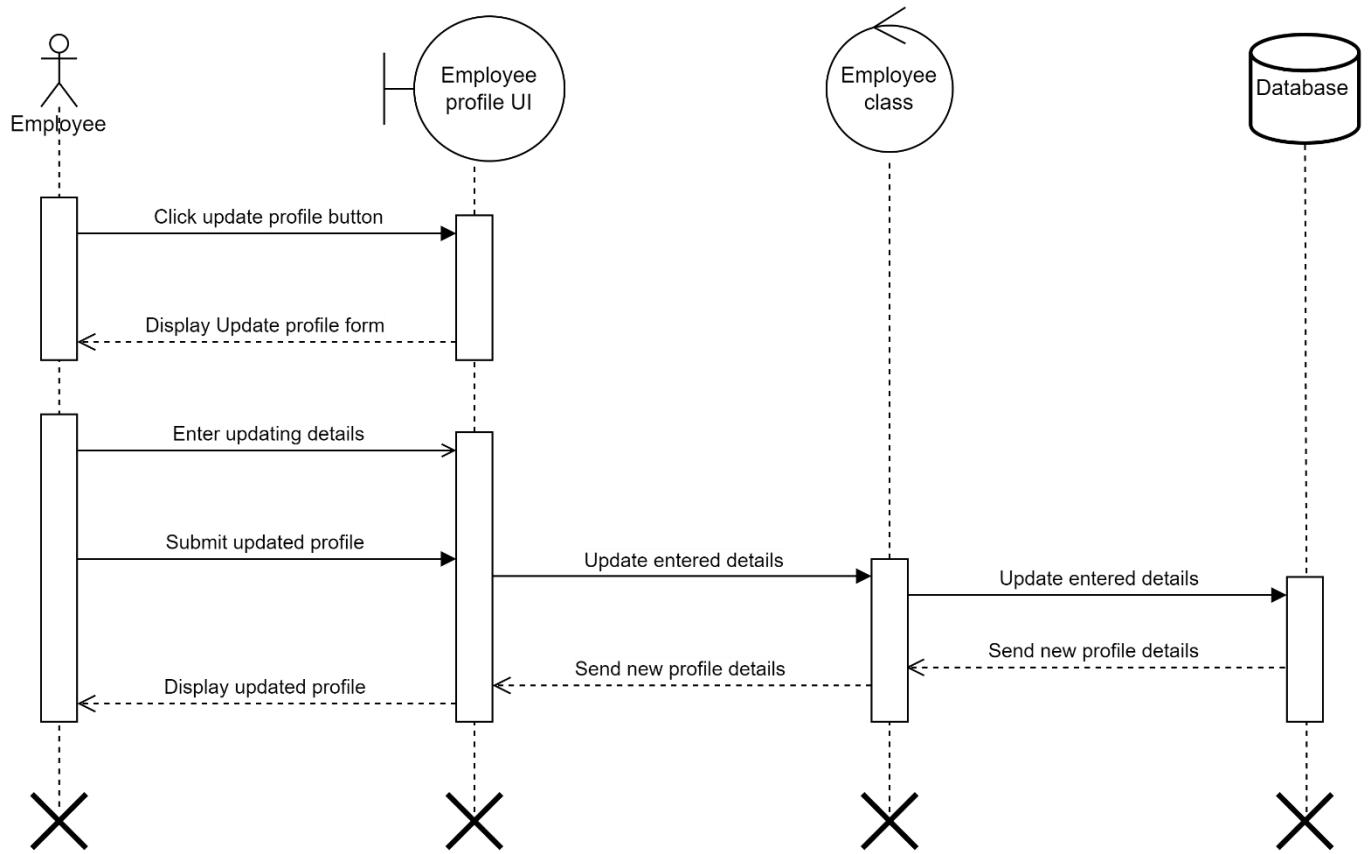


Figure 16 Employee update profile Sequence

## Sequence Diagram for Logout Use Case Diagram

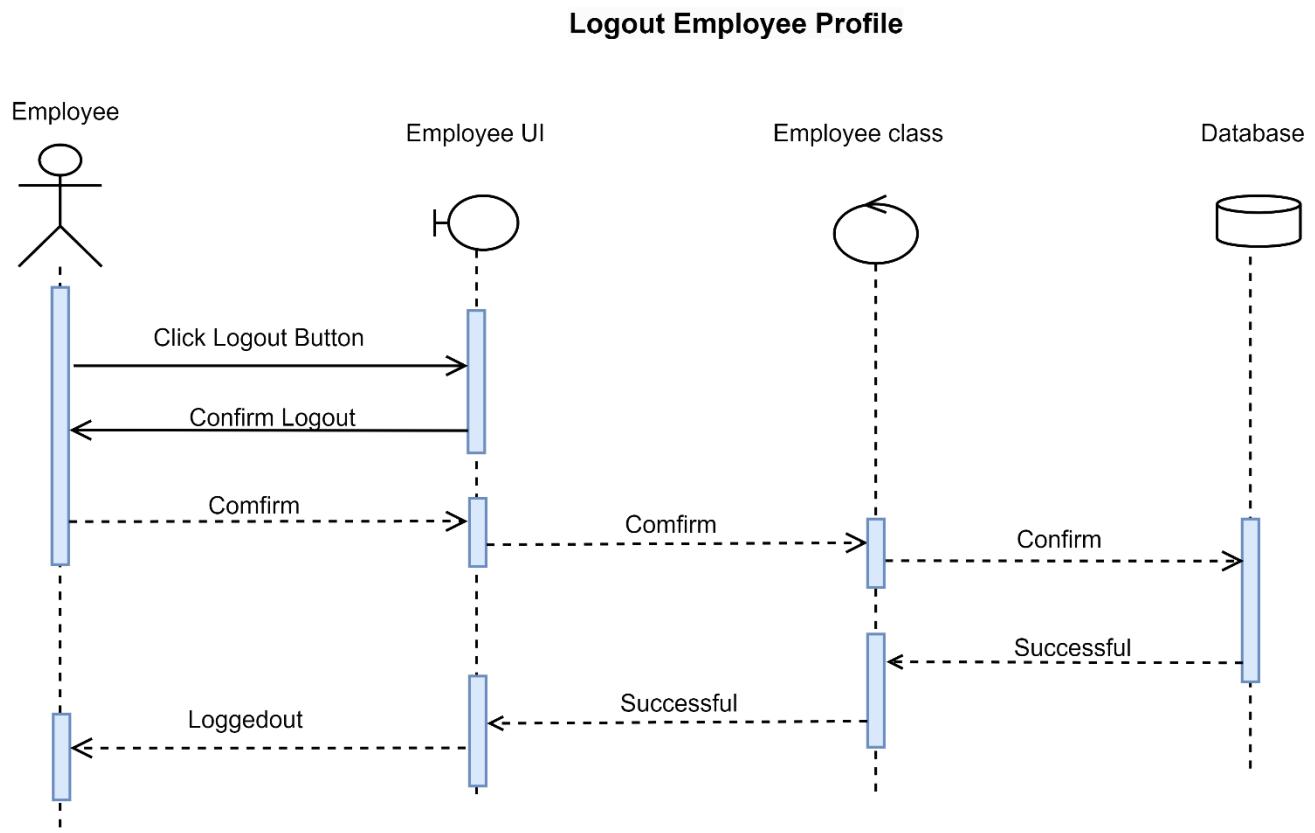


Figure 17 Employee Logout Sequence

## Sequence Diagram for Check Loan Eligibility Use Case Diagram

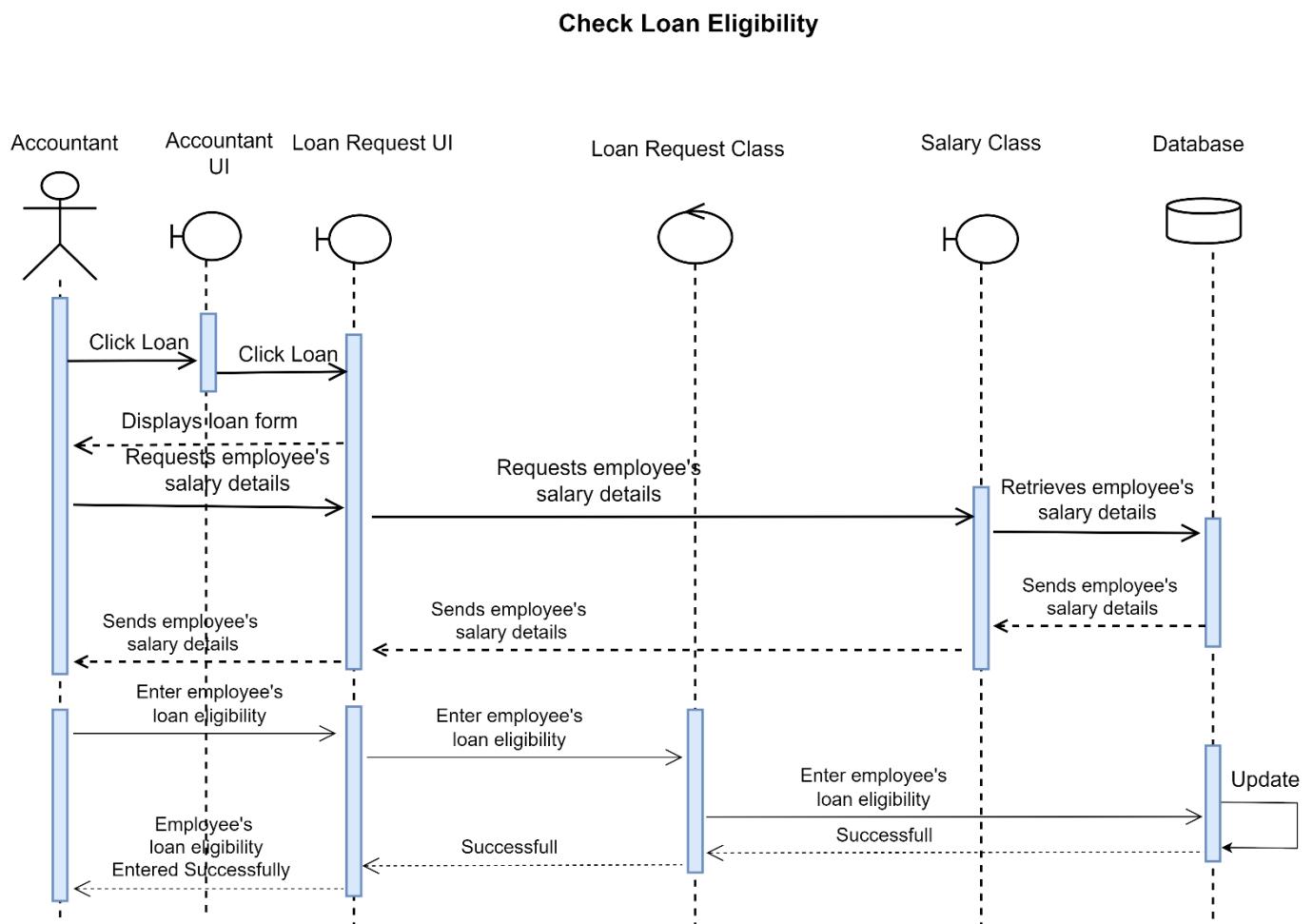
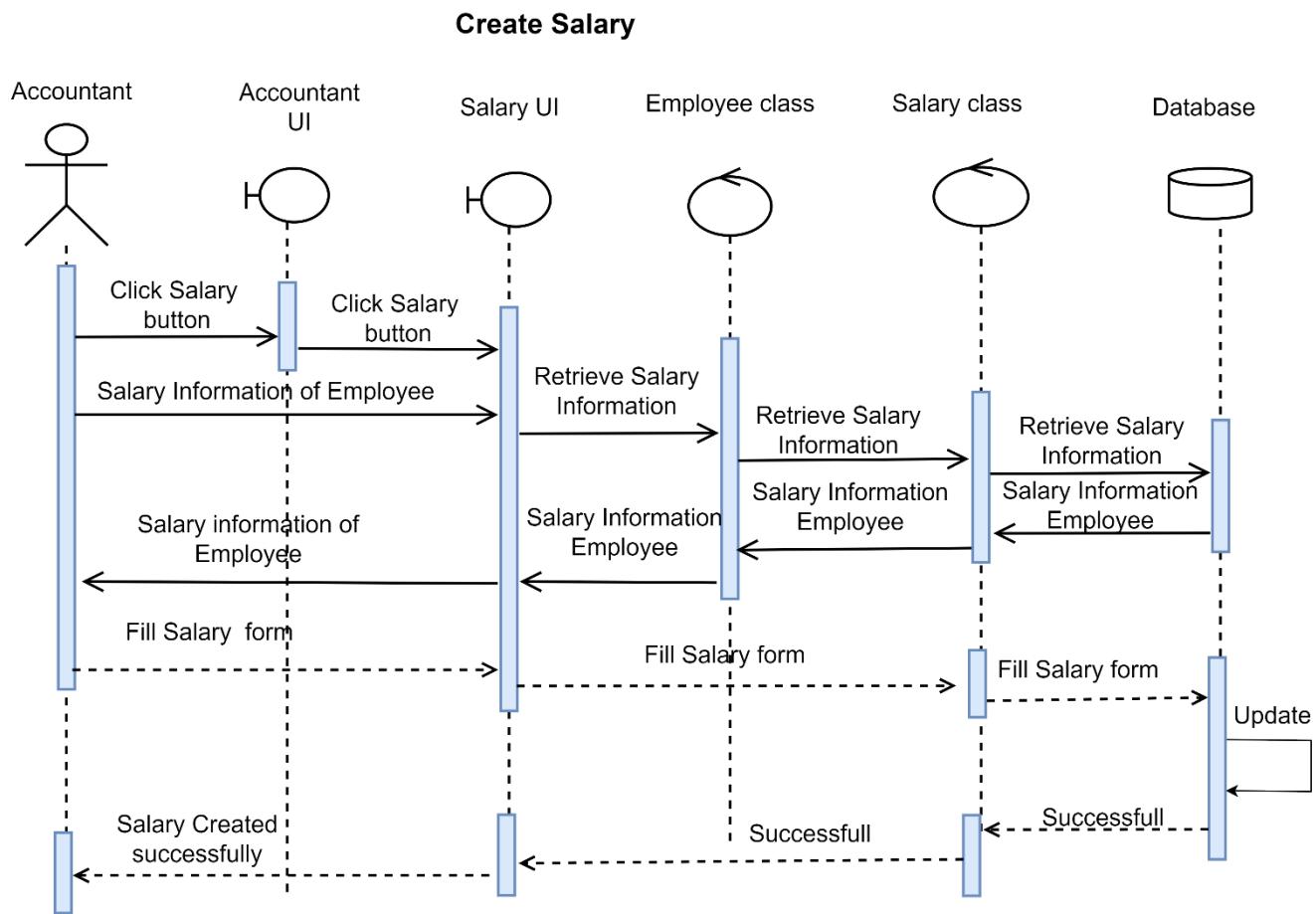


Figure 18 Accountant check loan Eligibility Sequence

## Sequence Diagram for Create Salaries Use Case Diagram



*Figure 19 Accountant create salaries Sequence*

## Sequence Diagram for Generate OT Use Case Diagram

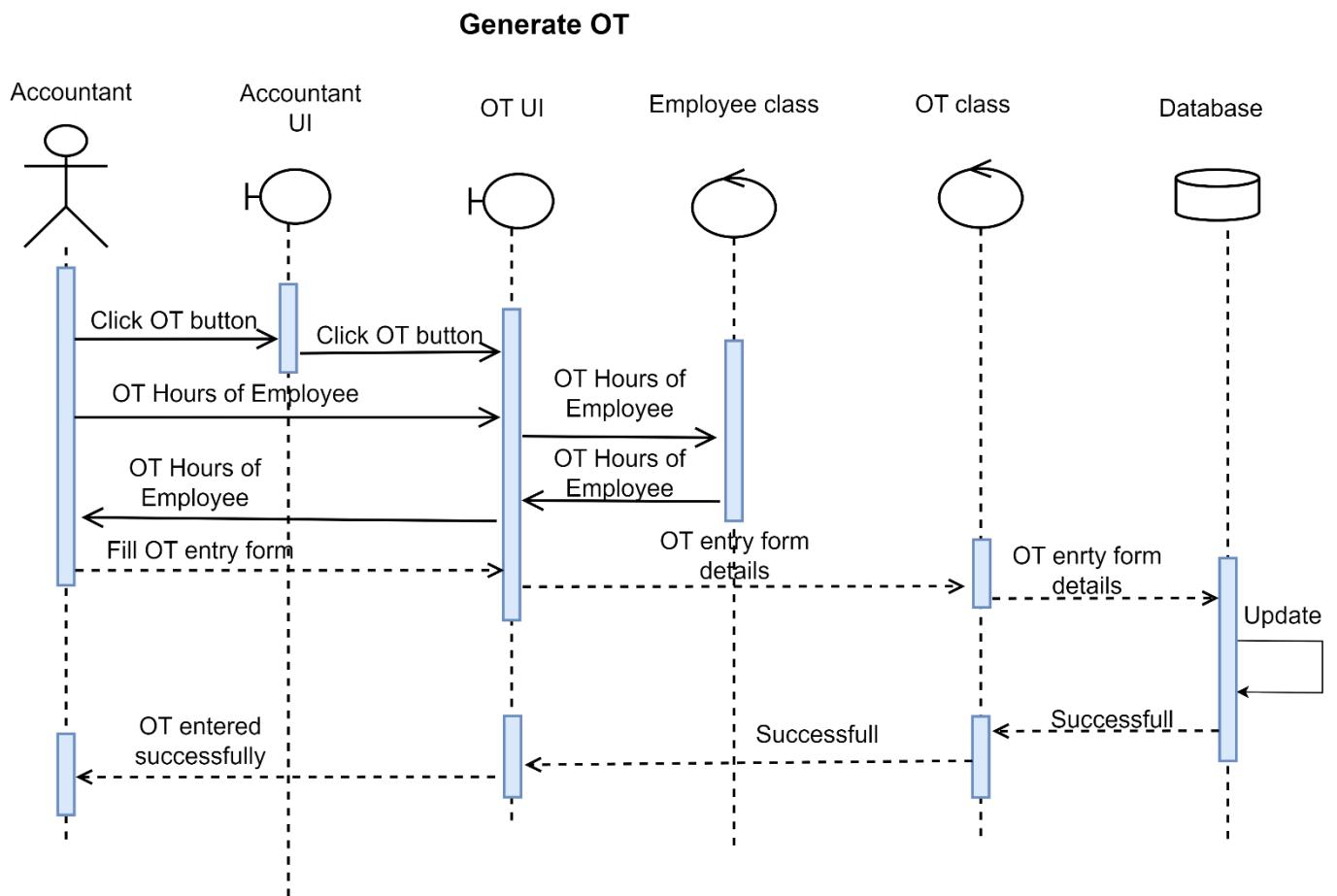


Figure 20 Accountant Generate OT Sequence

## Sequence Diagram for Generate Increment Use Case Diagram

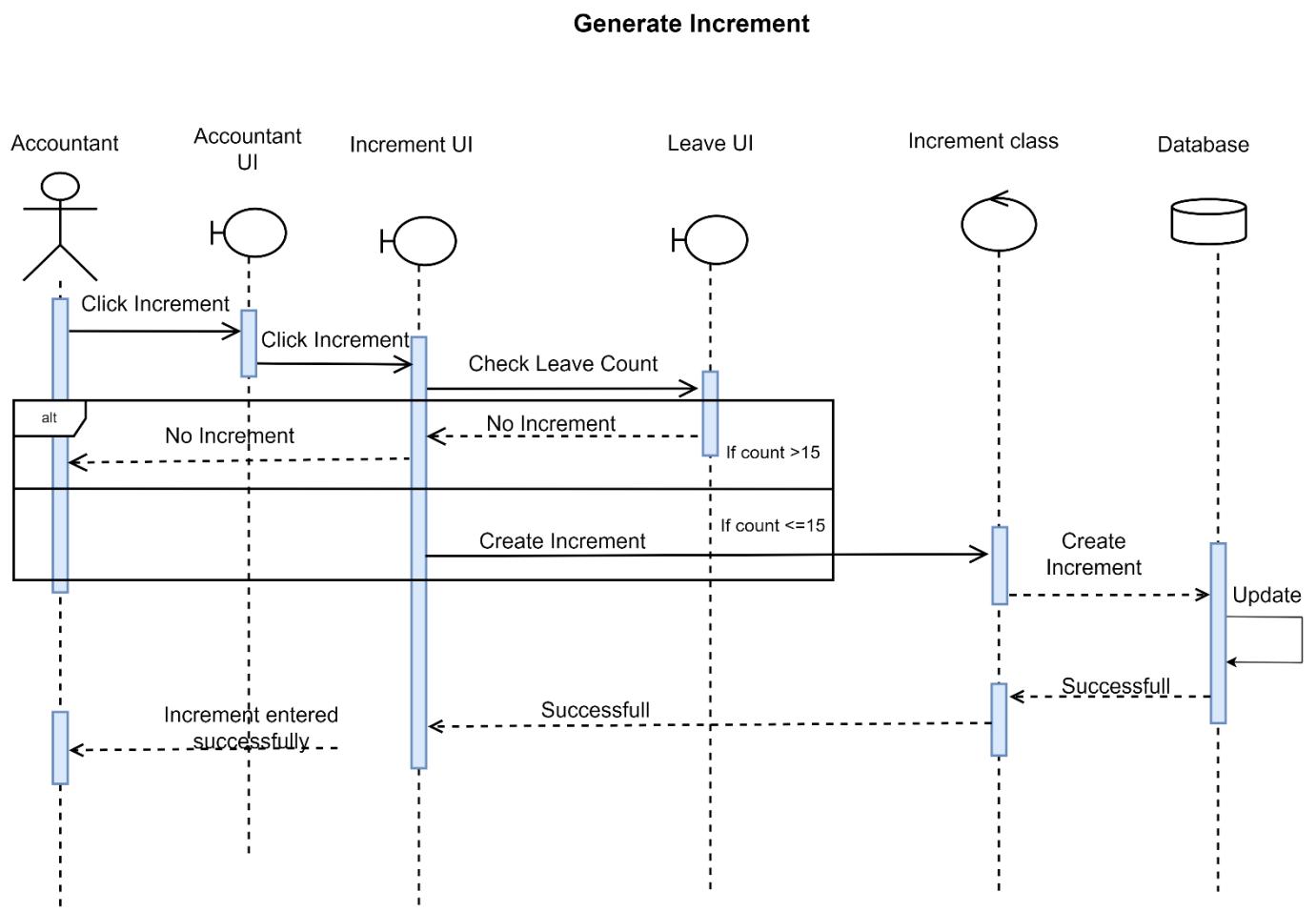


Figure 21 Accountant Generate Increment Sequence

## Sequence Diagram for Generate Bonus Use Case Diagram

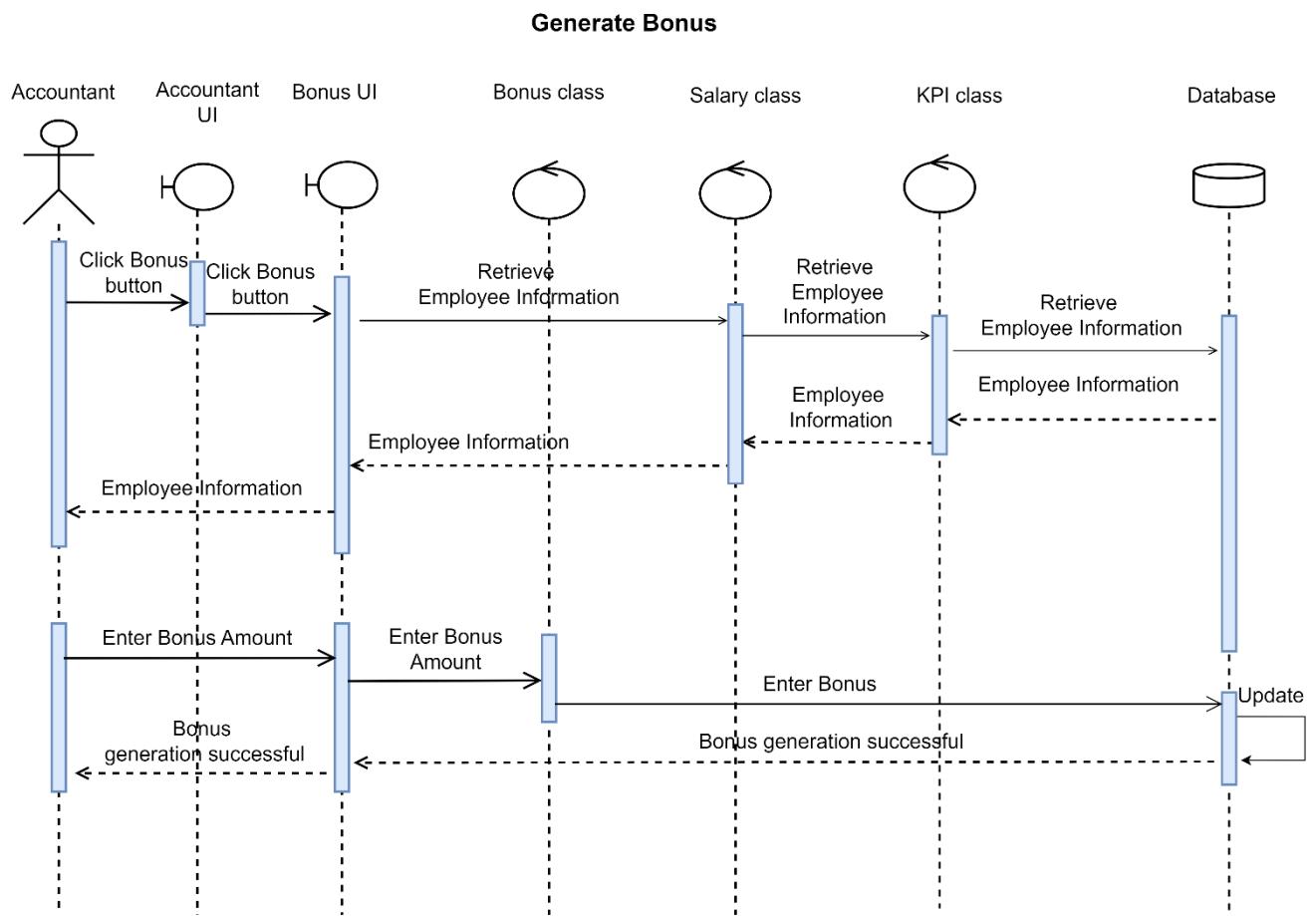


Figure 22 Accountant Generate Bonus Sequence

## Sequence Diagram for Approve EPF Use Case Diagram

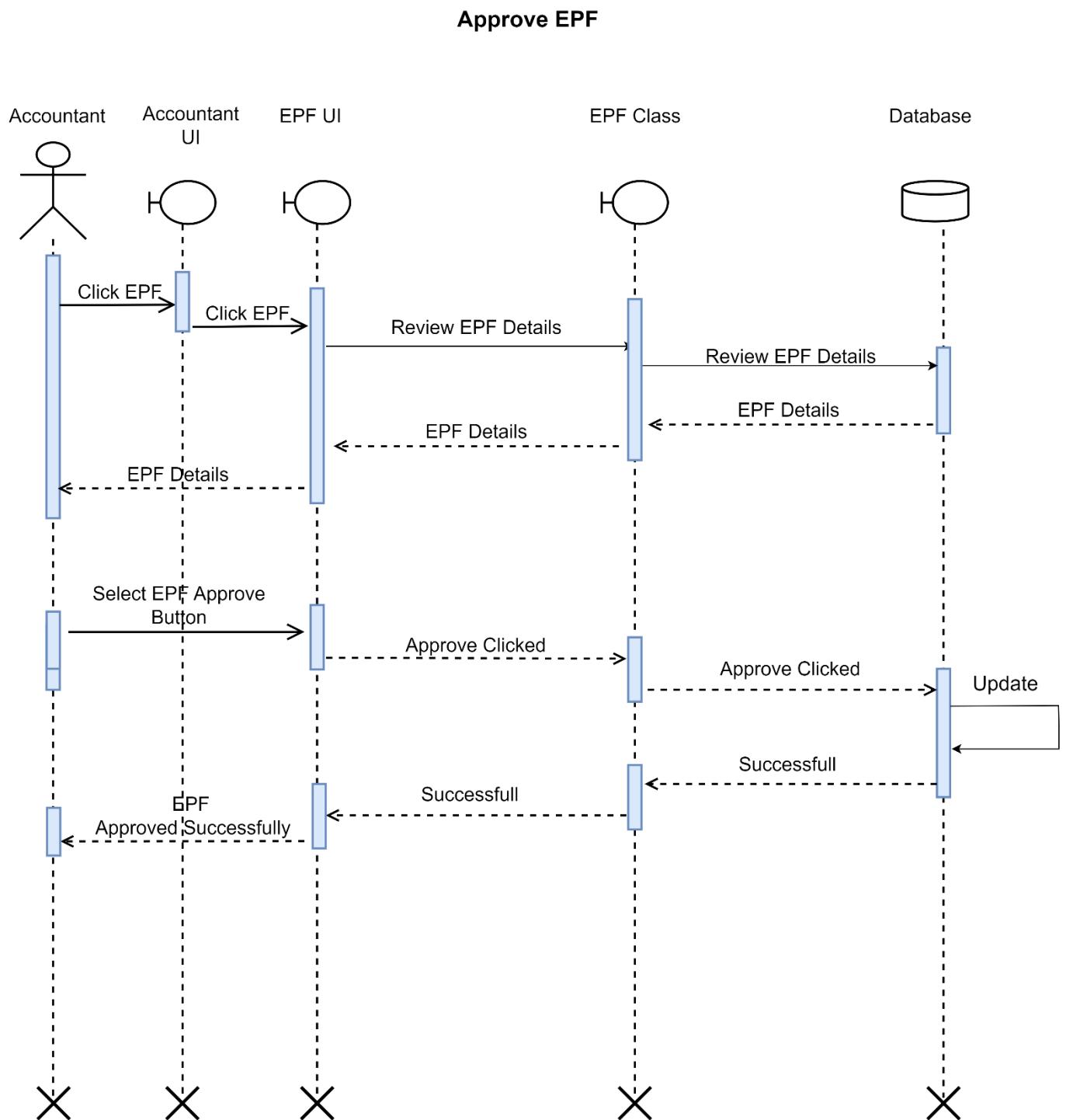


Figure 23 Accountant Approve EPF&ETF Sequence

## Sequence Diagram for Register Employee Use Case Diagram

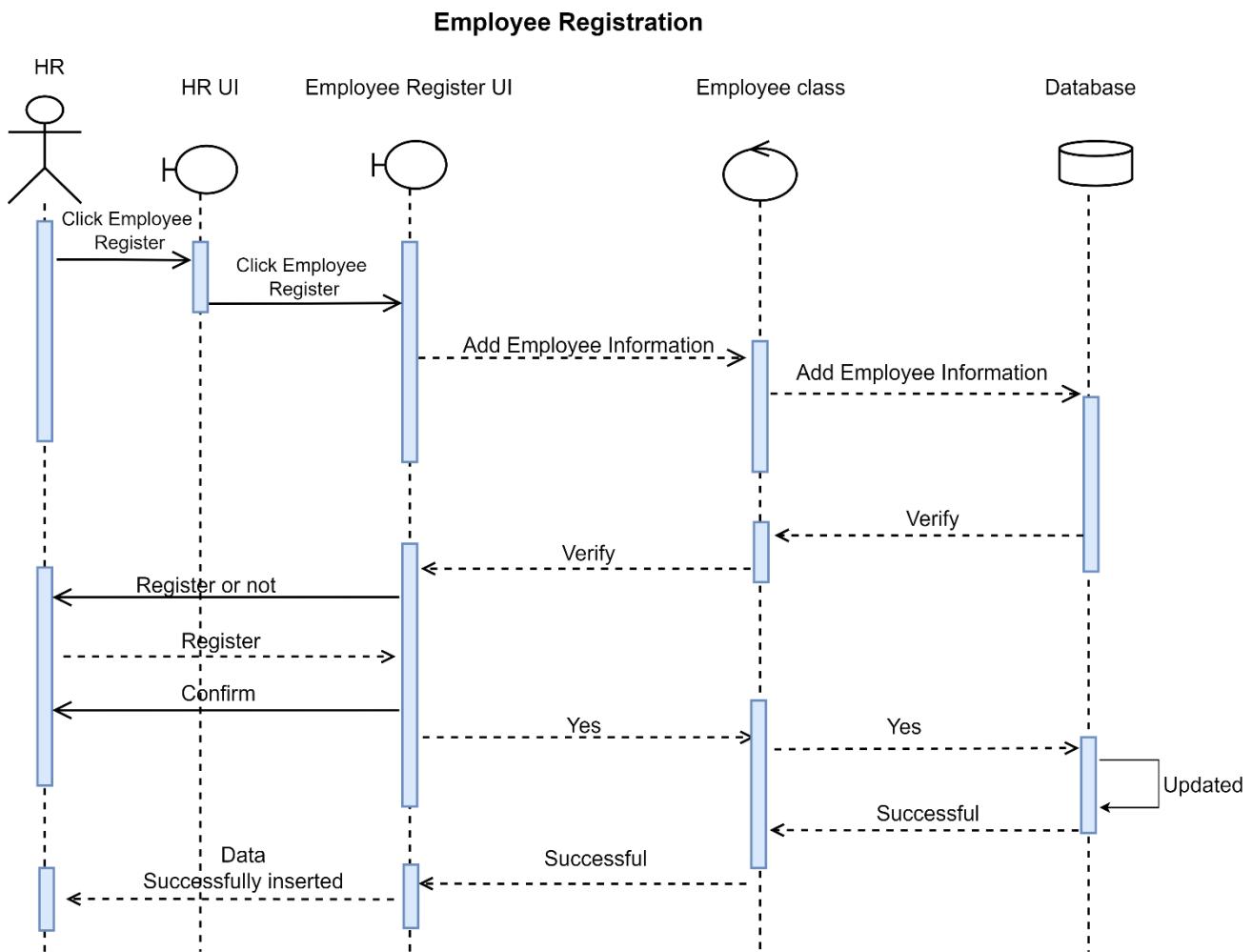


Figure 24 Employee Registration Sequence

## Sequence Diagram for Search Employee Use Case Diagram

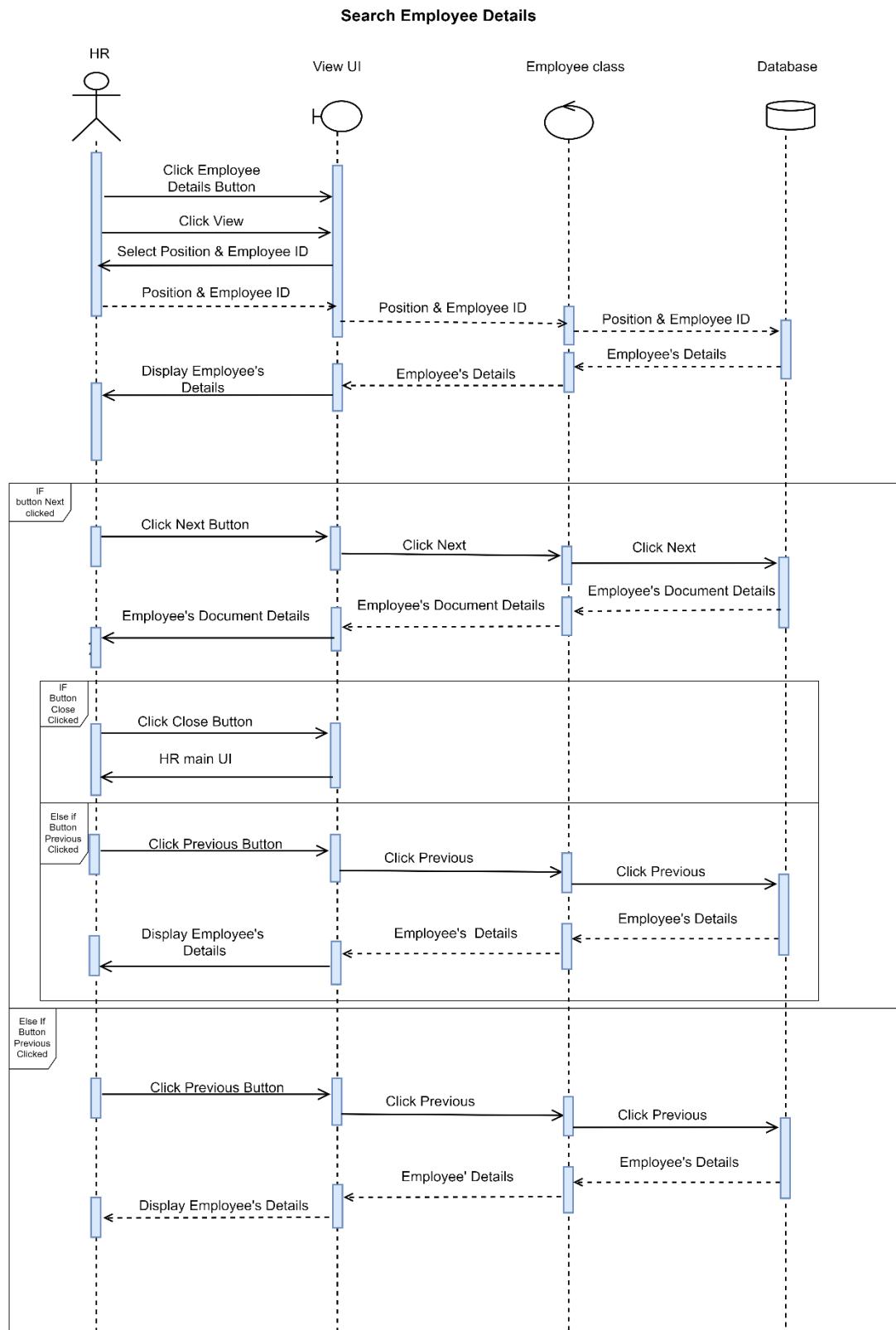


Figure 25 Search Employee Sequence

## Sequence Diagram for Update Employee Use Case Diagram

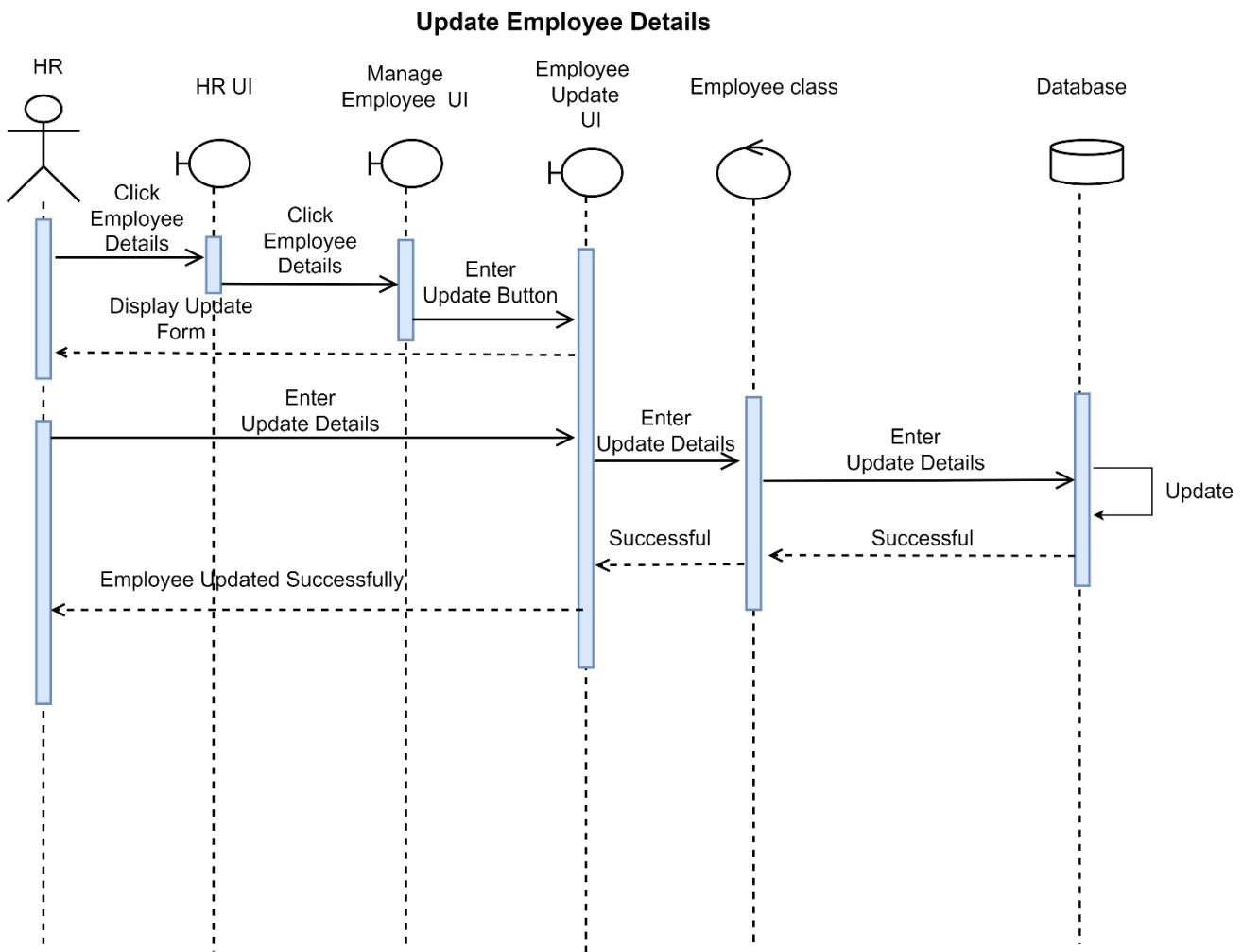


Figure 26 Update Employee Details Sequence

## Sequence Diagram for Delete Employee Use Case Diagram

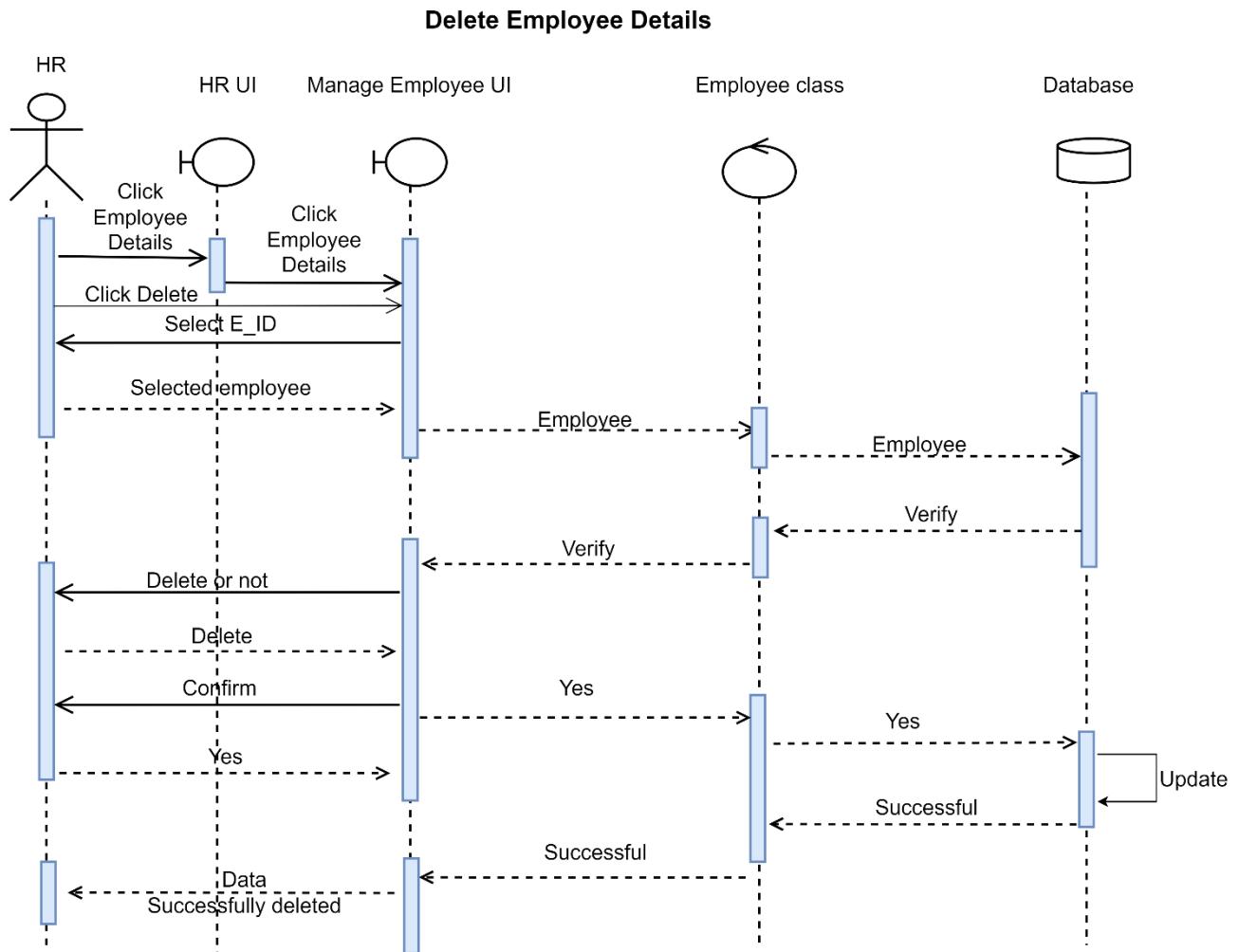


Figure 27 Delete Employee Details Sequence

## Sequence Diagram for Arrange Leaves Use Case Diagram

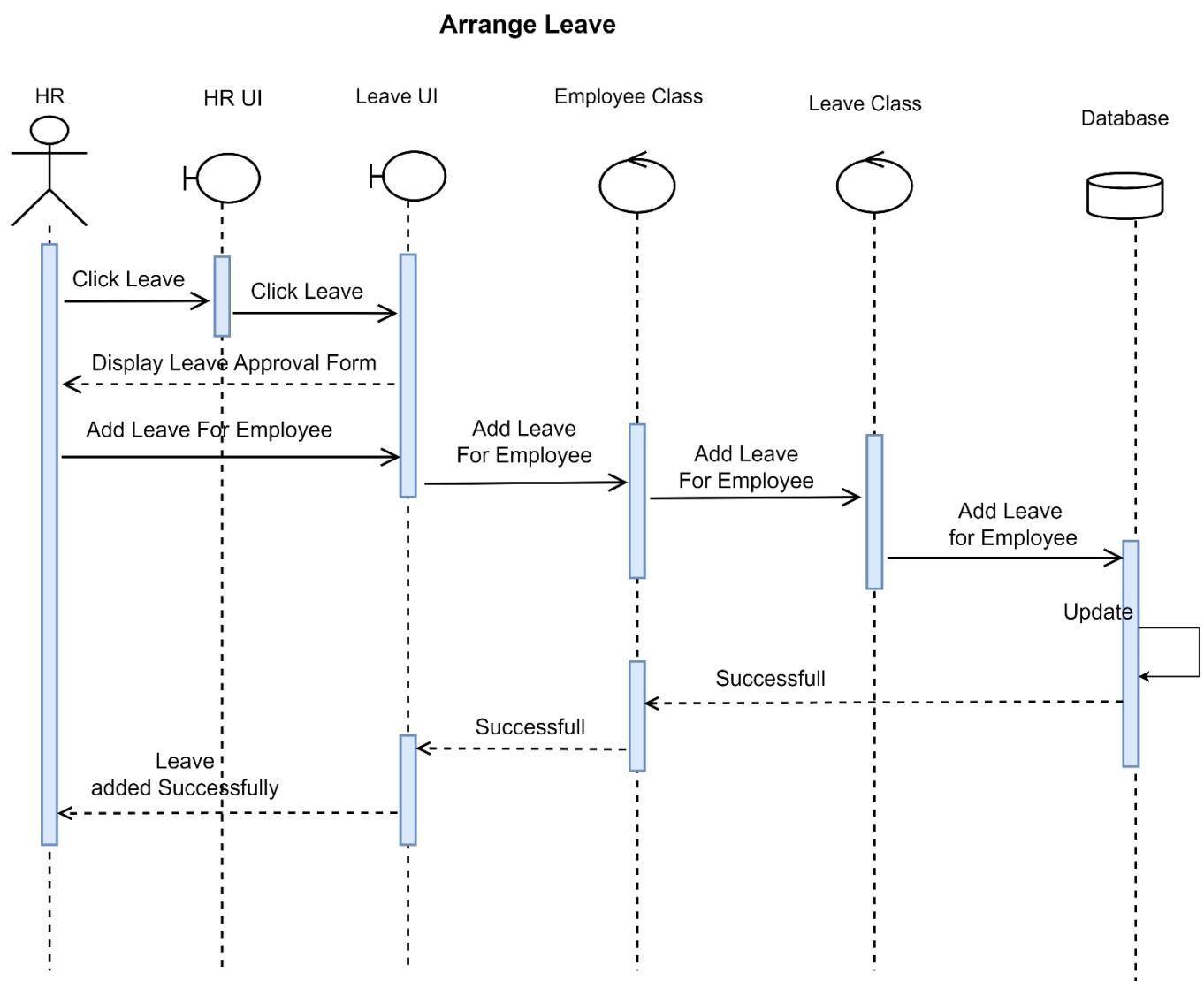


Figure 28 Arrange Leaves Sequence

## Sequence Diagram for Arrange Training Use Case Diagram

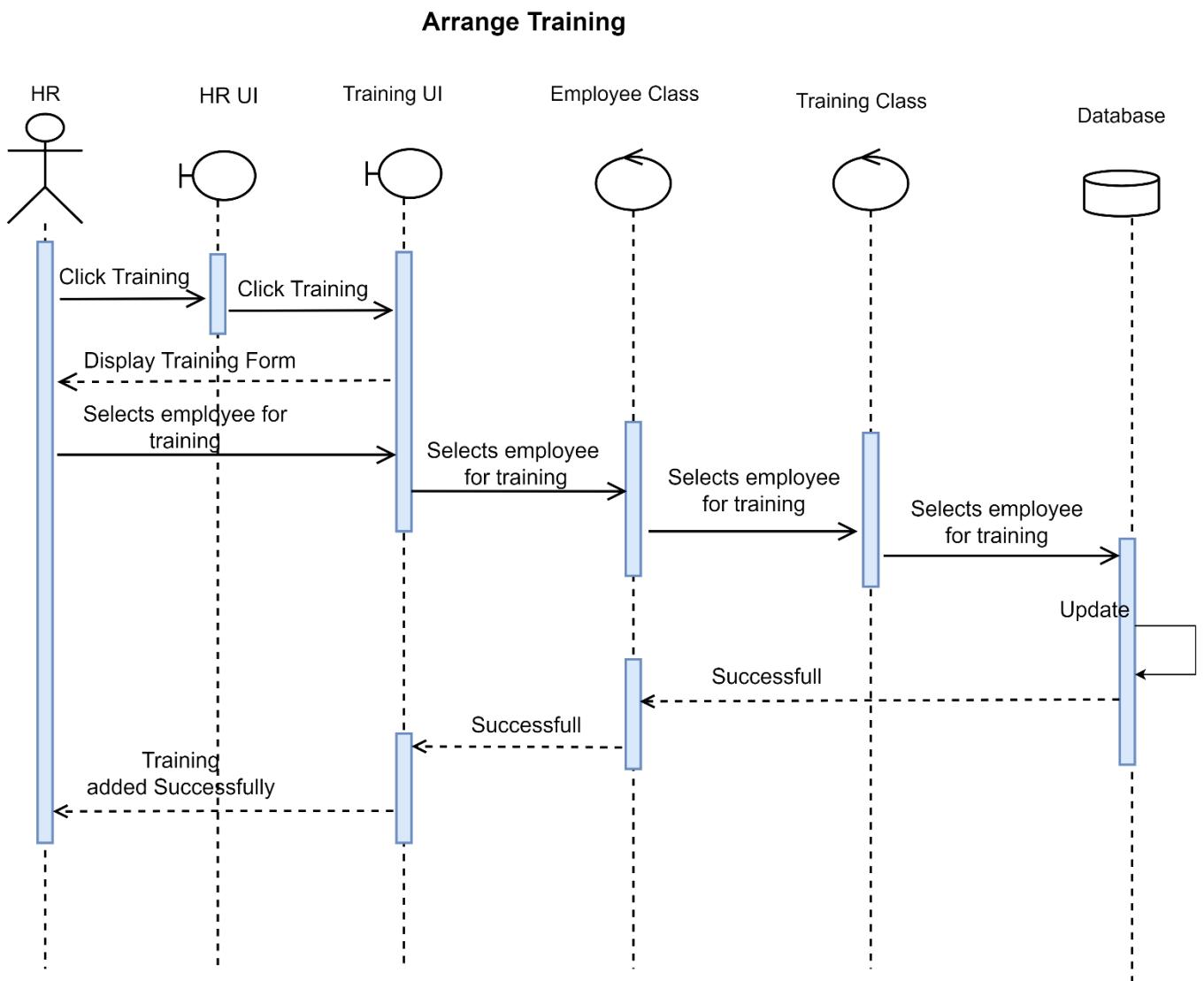


Figure 29 Arrange Training Sequence

## Sequence Diagram for Add Salary Use Case Diagram

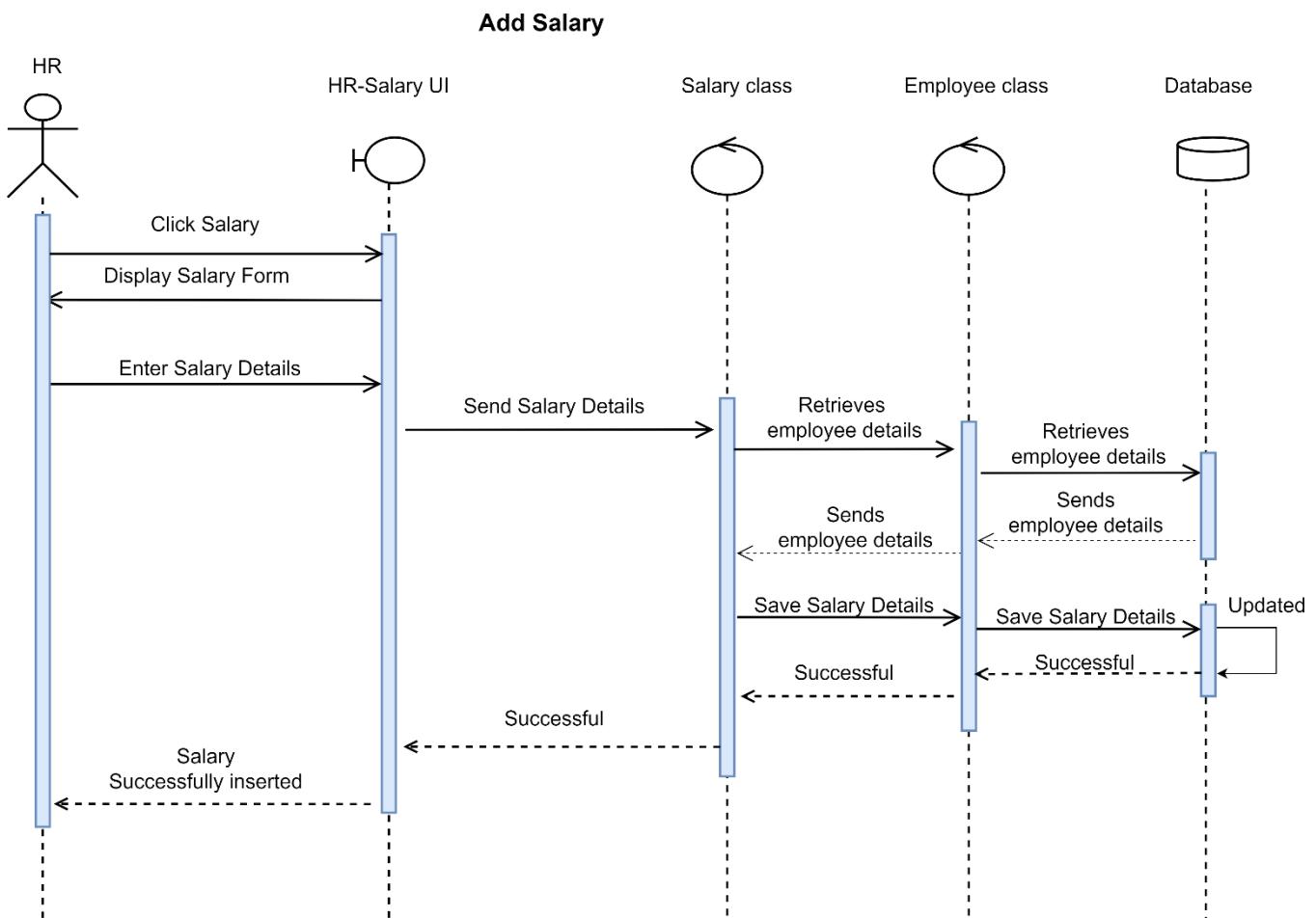


Figure 30 Add Salary Sequence

## Sequence Diagram for Generate KPI Use Case Diagram

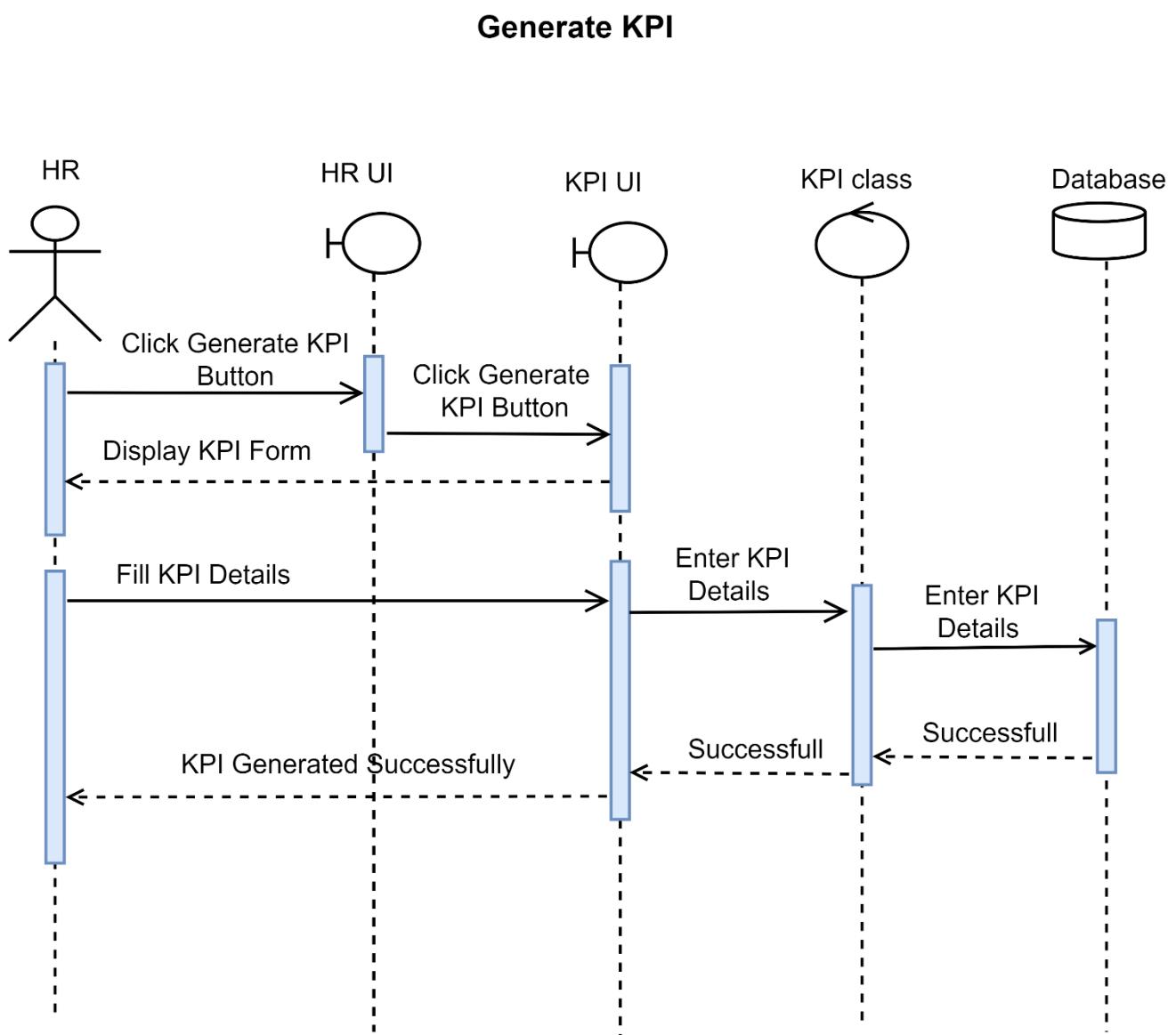


Figure 31 Generate KPI Sequence

## Sequence Diagram for Check/Approve/Reject Loan Request Use Case Diagram

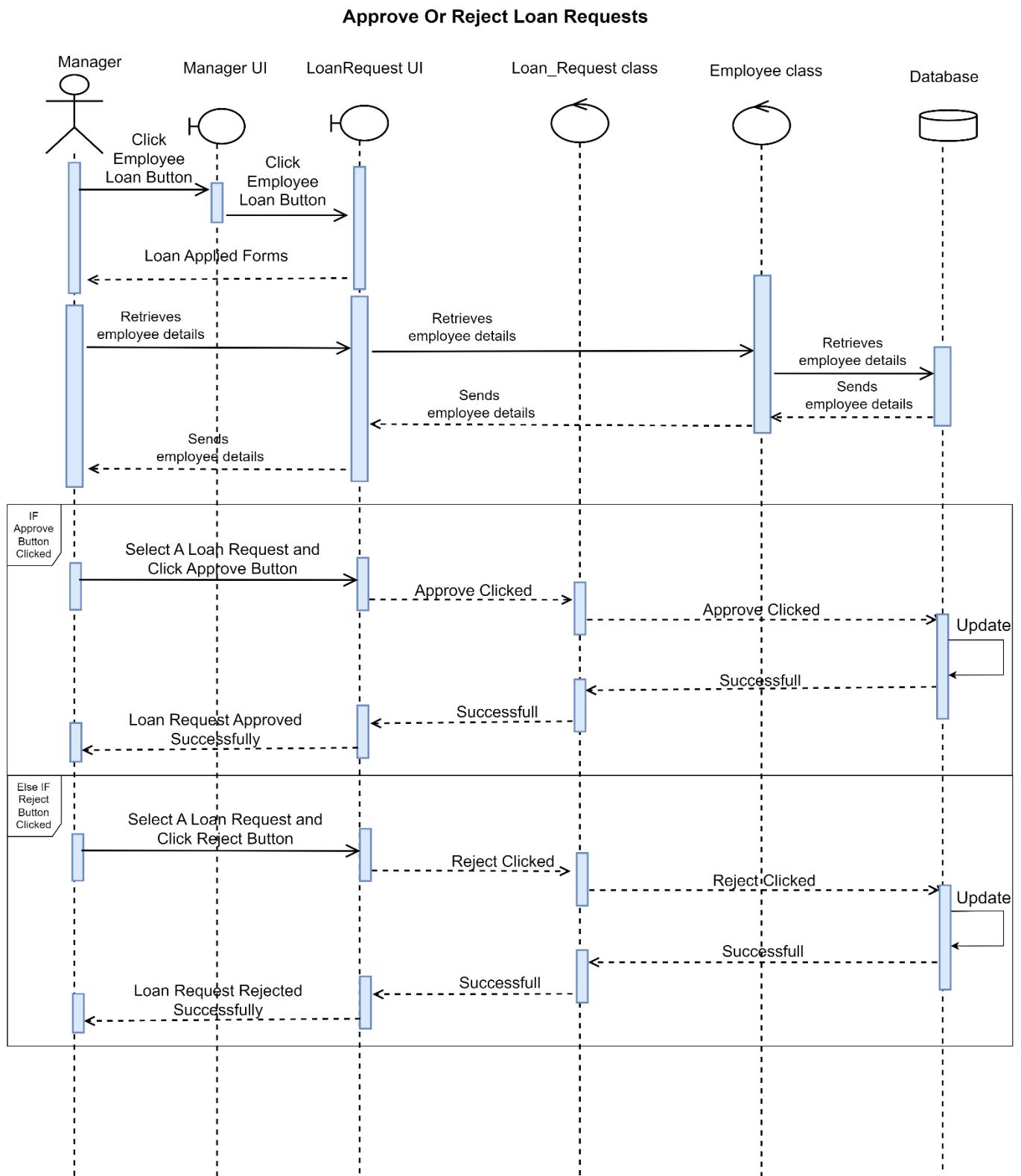


Figure 32 Approve or Reject Loan Sequence

## Sequence Diagram for Check/Approve/Reject Leave Request Use Case Diagram

### Approve Or Reject Leave Requests

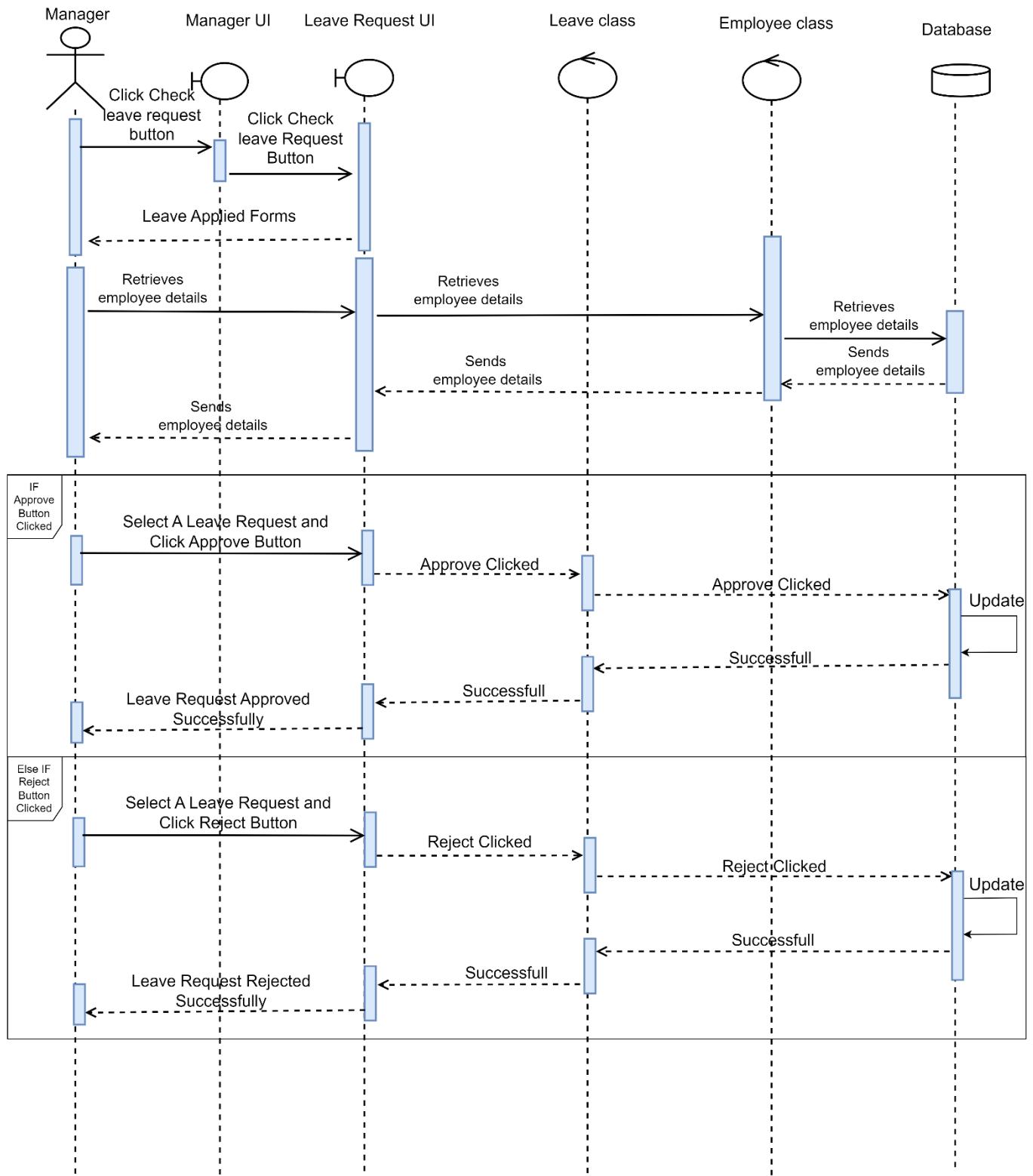


Figure 33 Approve or Reject Leave Sequence

## Sequence Diagram for Assign Task Use Case Diagram

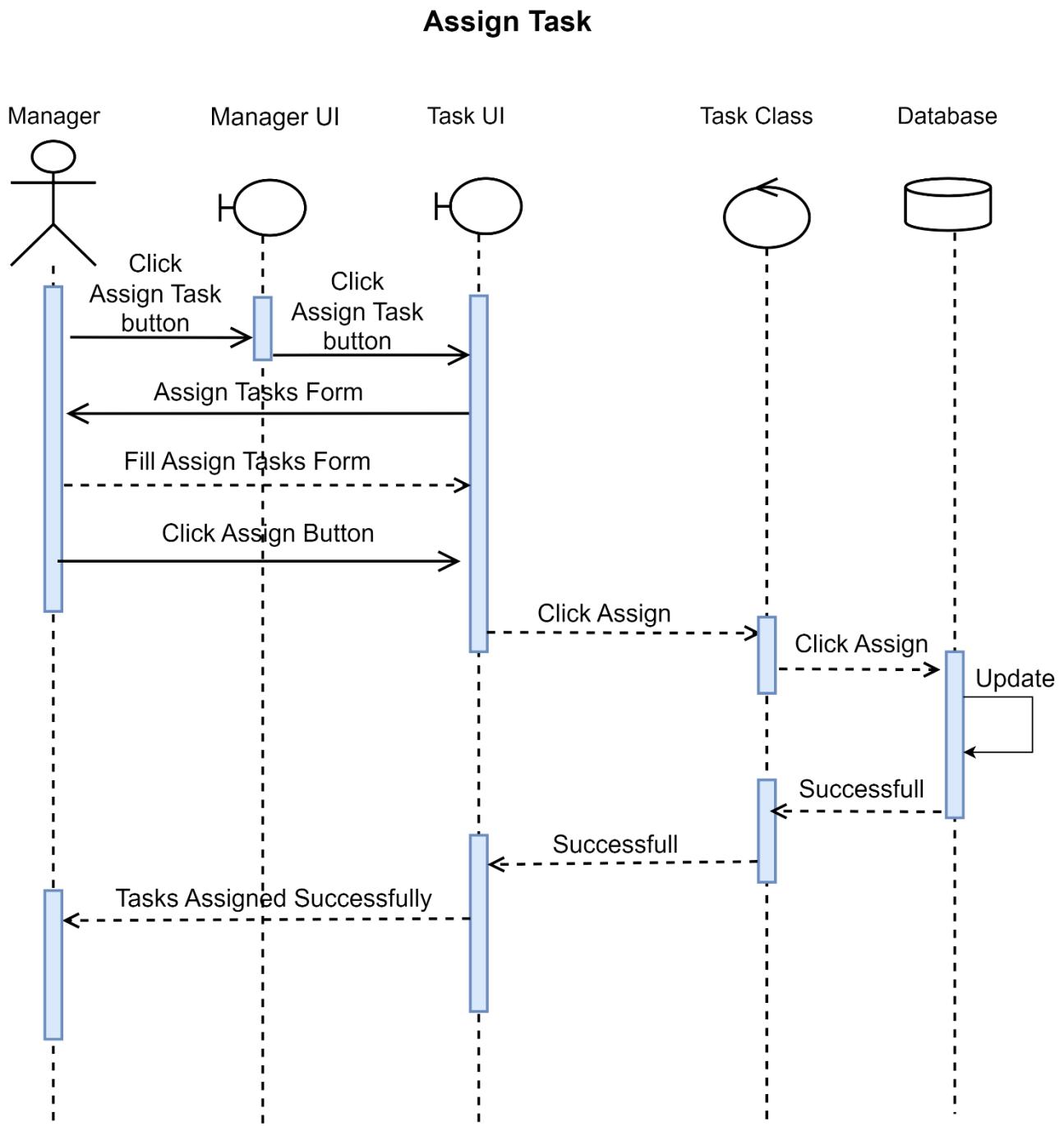


Figure 34 Assign Task Sequence

## Sequence Diagram for Rate Performance Use Case Diagram

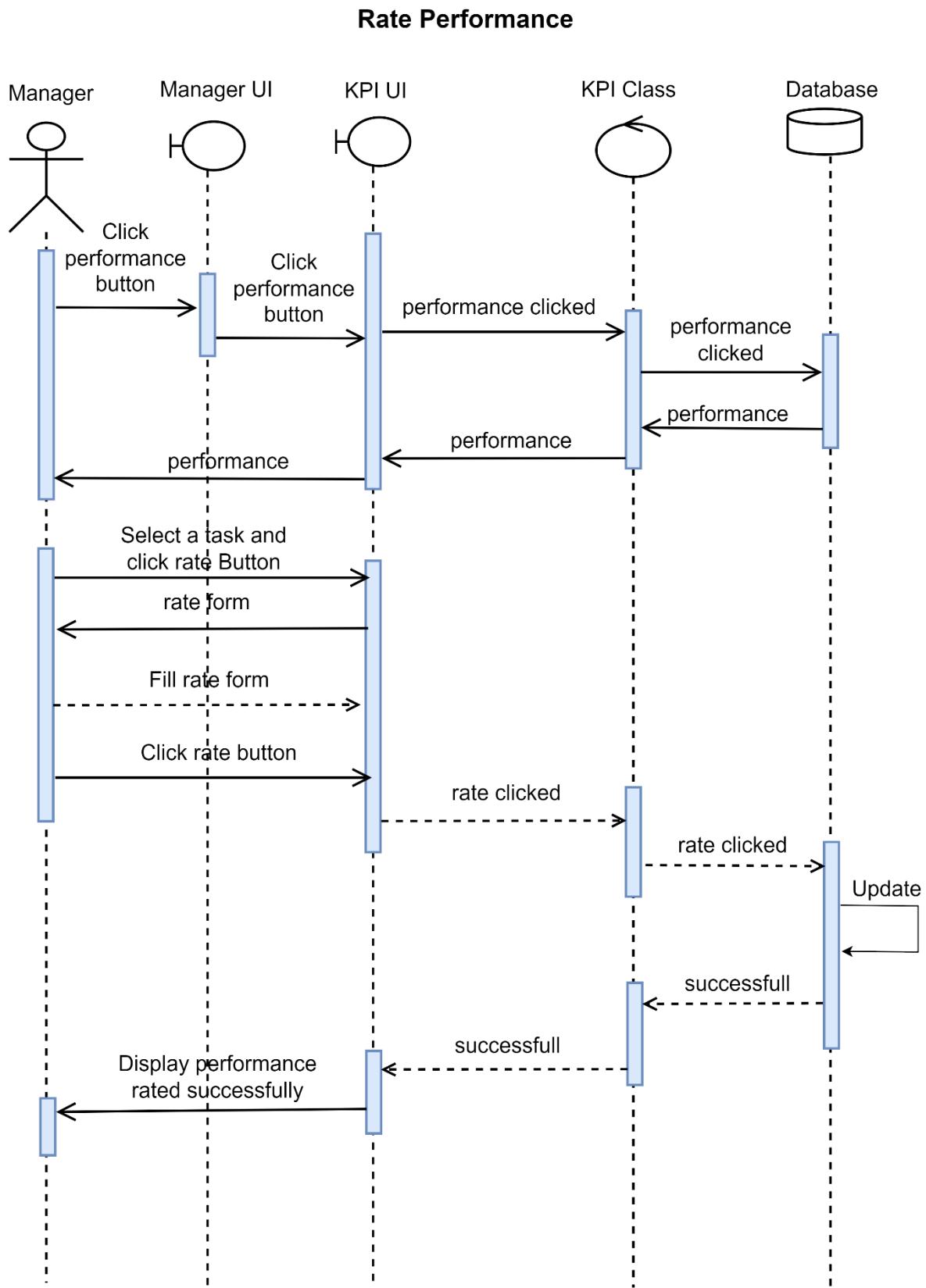


Figure 35 Rate Performance Sequence

## Sequence Diagram for Generate Salary Report Use Case Diagram

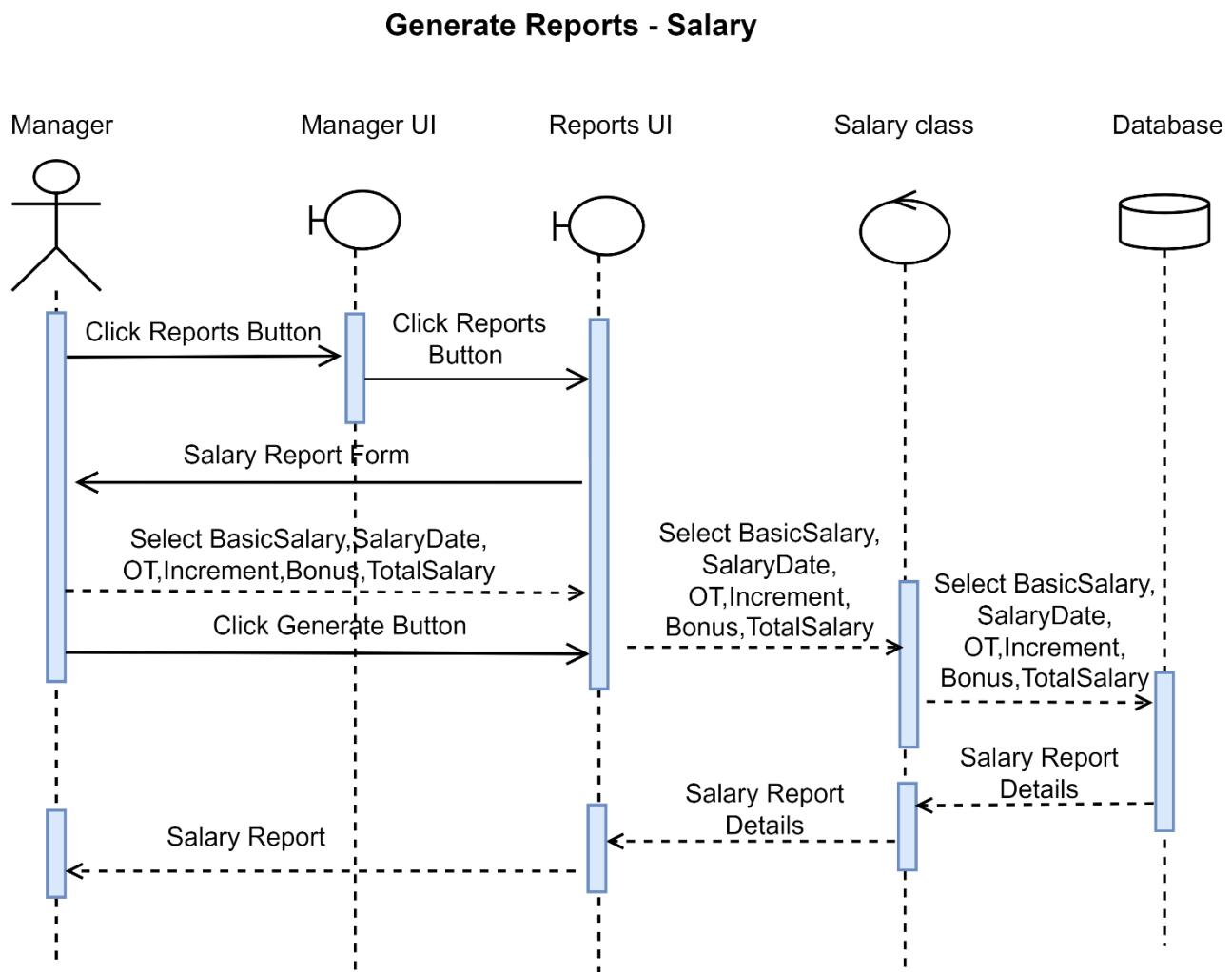


Figure 36 Salary Report Sequence

## Sequence Diagram for Generate Increment Report Use Case Diagram

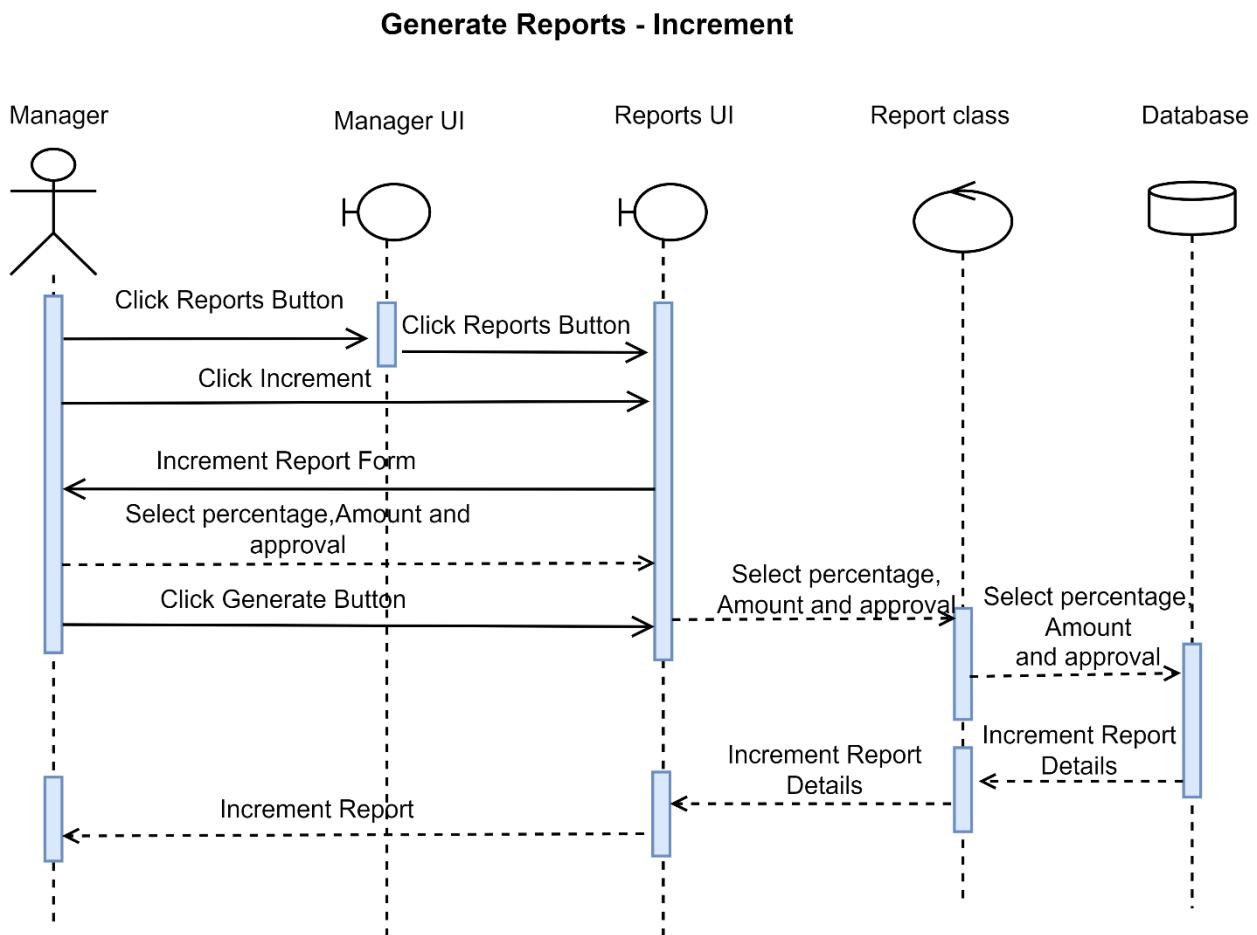


Figure 37 Increment Report Sequence

## Sequence Diagram for Generate OT Report Use Case Diagram

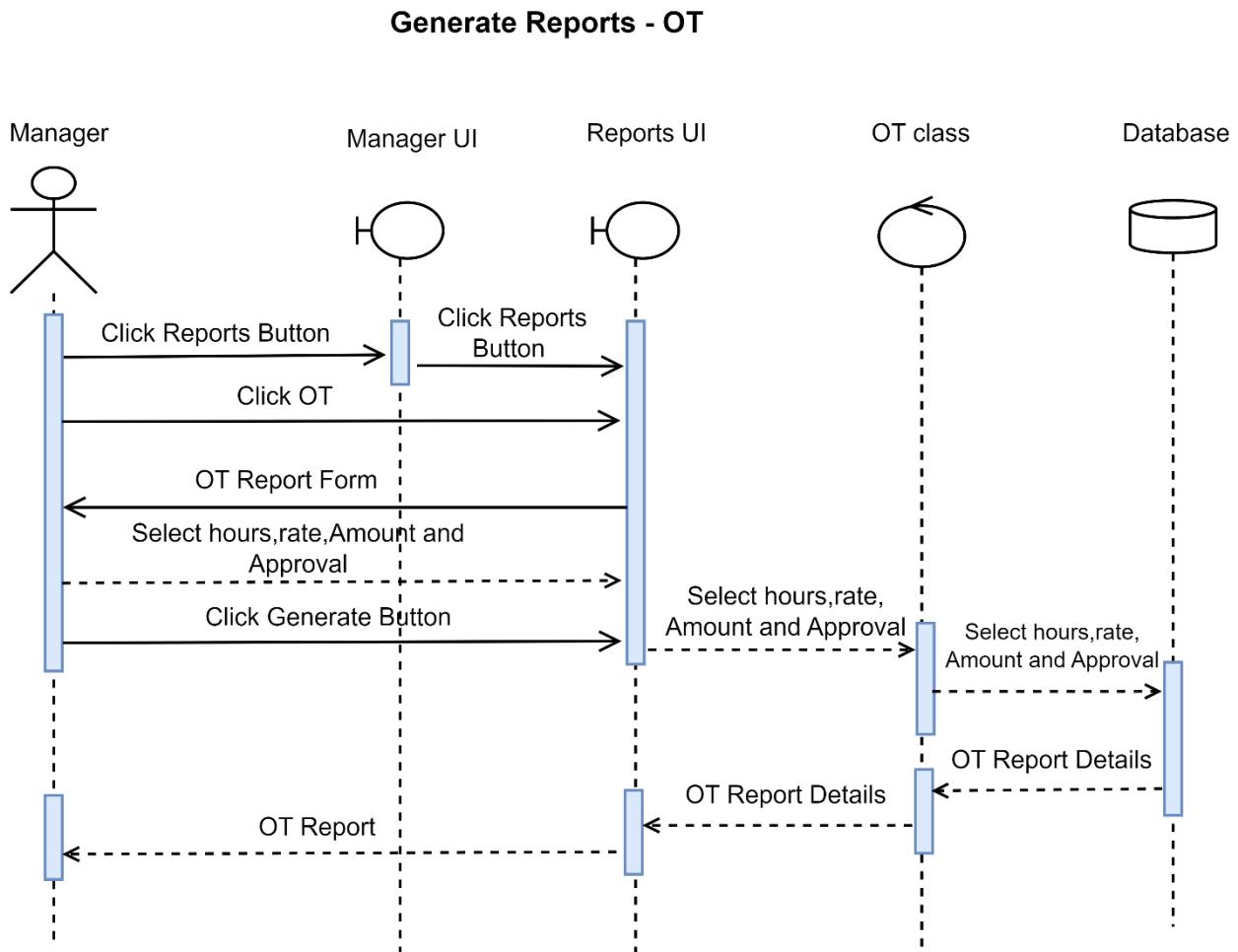


Figure 38 OT Report Sequence

## Sequence Diagram for Generate No Pay Report Use Case Diagram

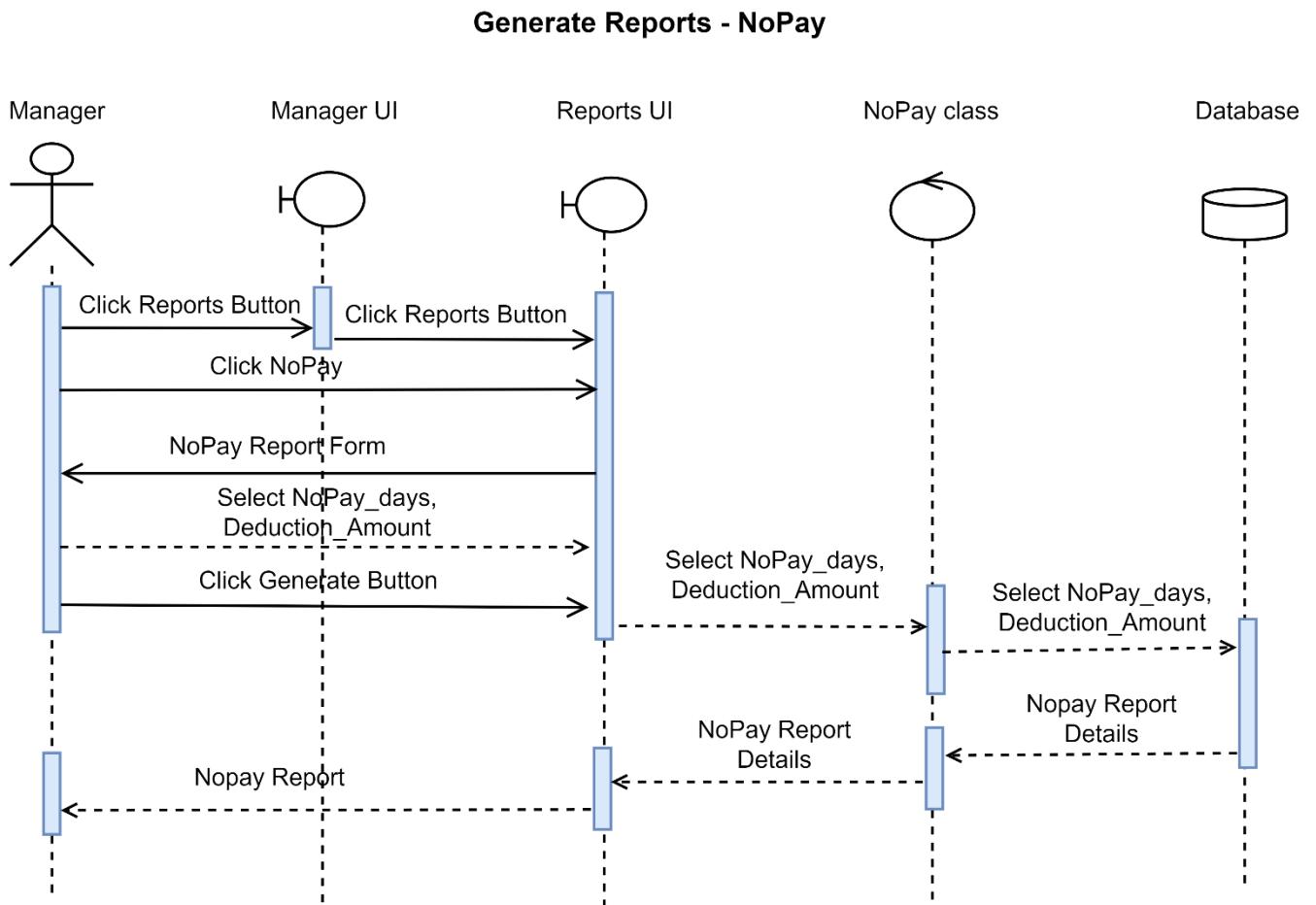


Figure 39 NoPay Report Sequence

## Sequence Diagram for Generate Attendance Report Use Case Diagram

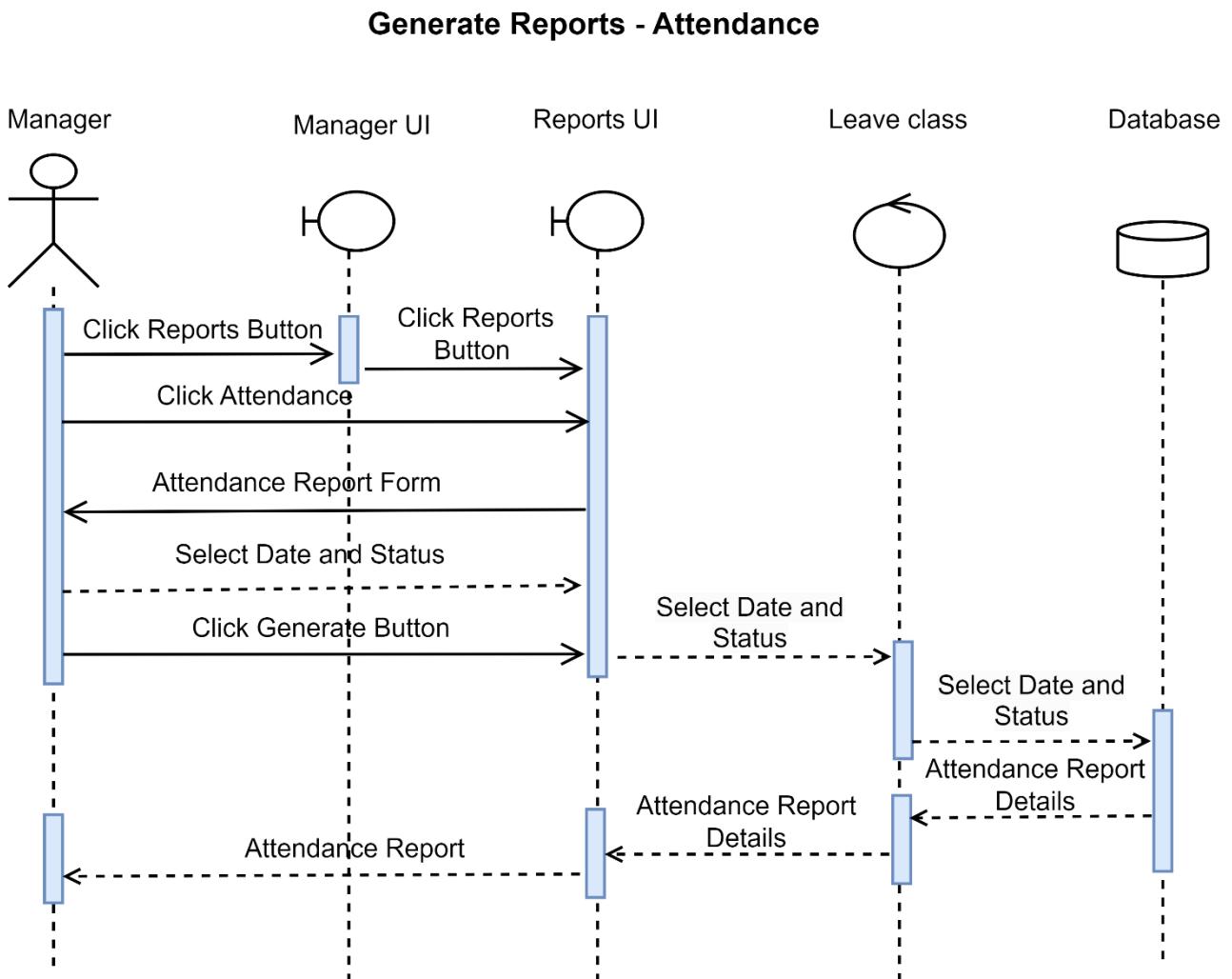


Figure 40 Attendance Report Sequence

## Sequence Diagram for Generate Training Report Use Case Diagram

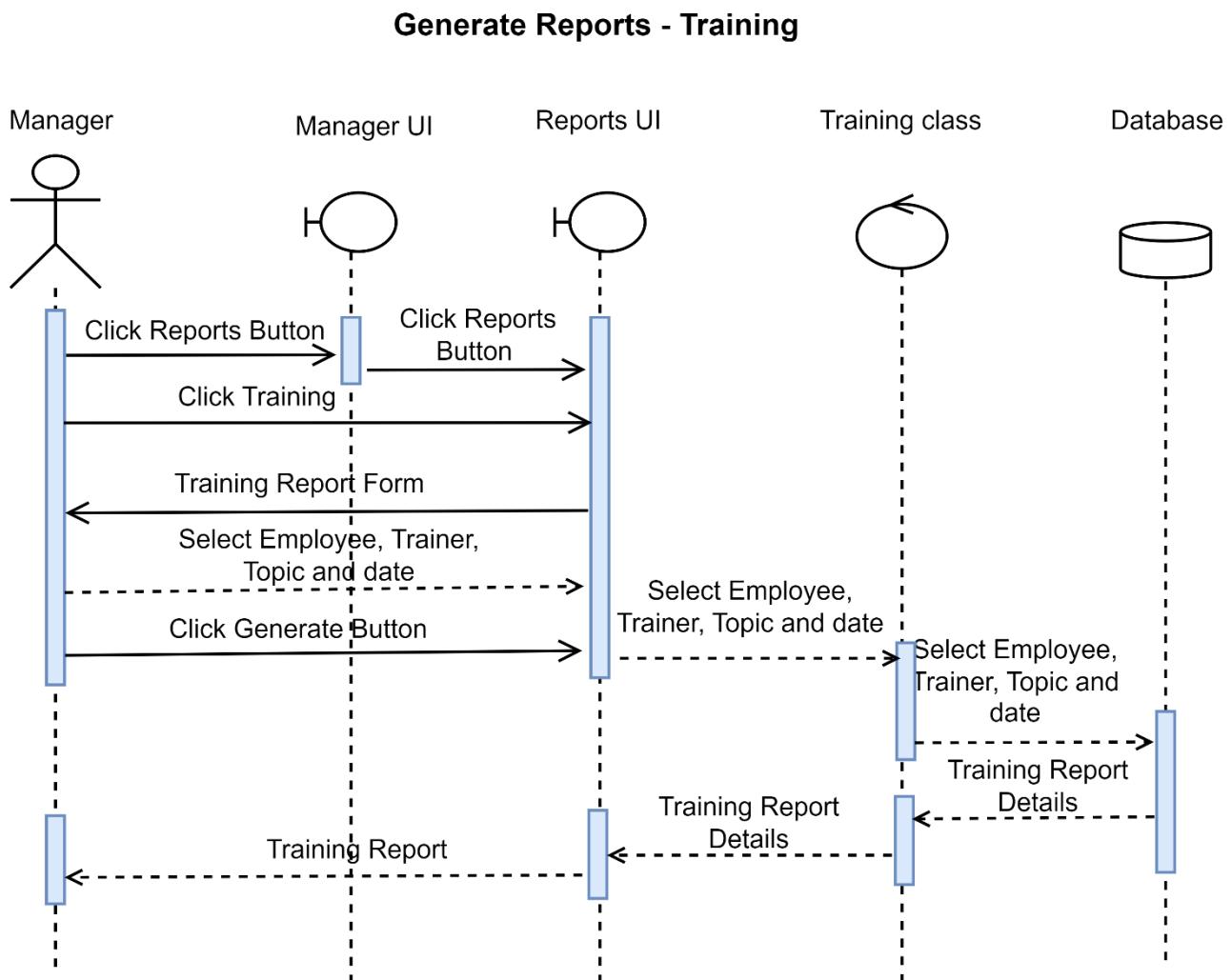


Figure 41 Training Report Sequence

## Sequence Diagram for Generate Leave Report Use Case Diagram

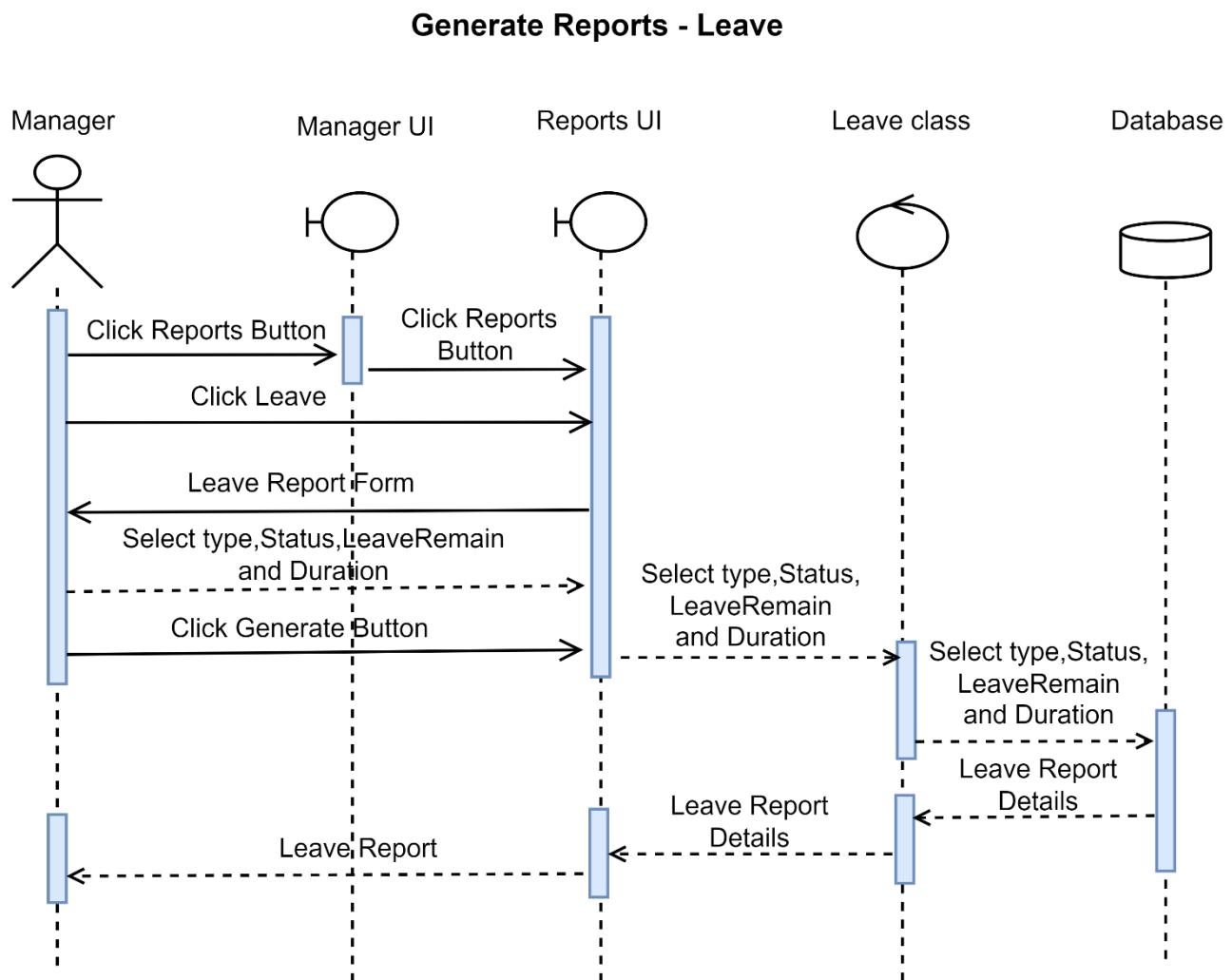


Figure 42 Leave Report Sequence

## Sequence Diagram for Generate Loan Request Report Use Case Diagram

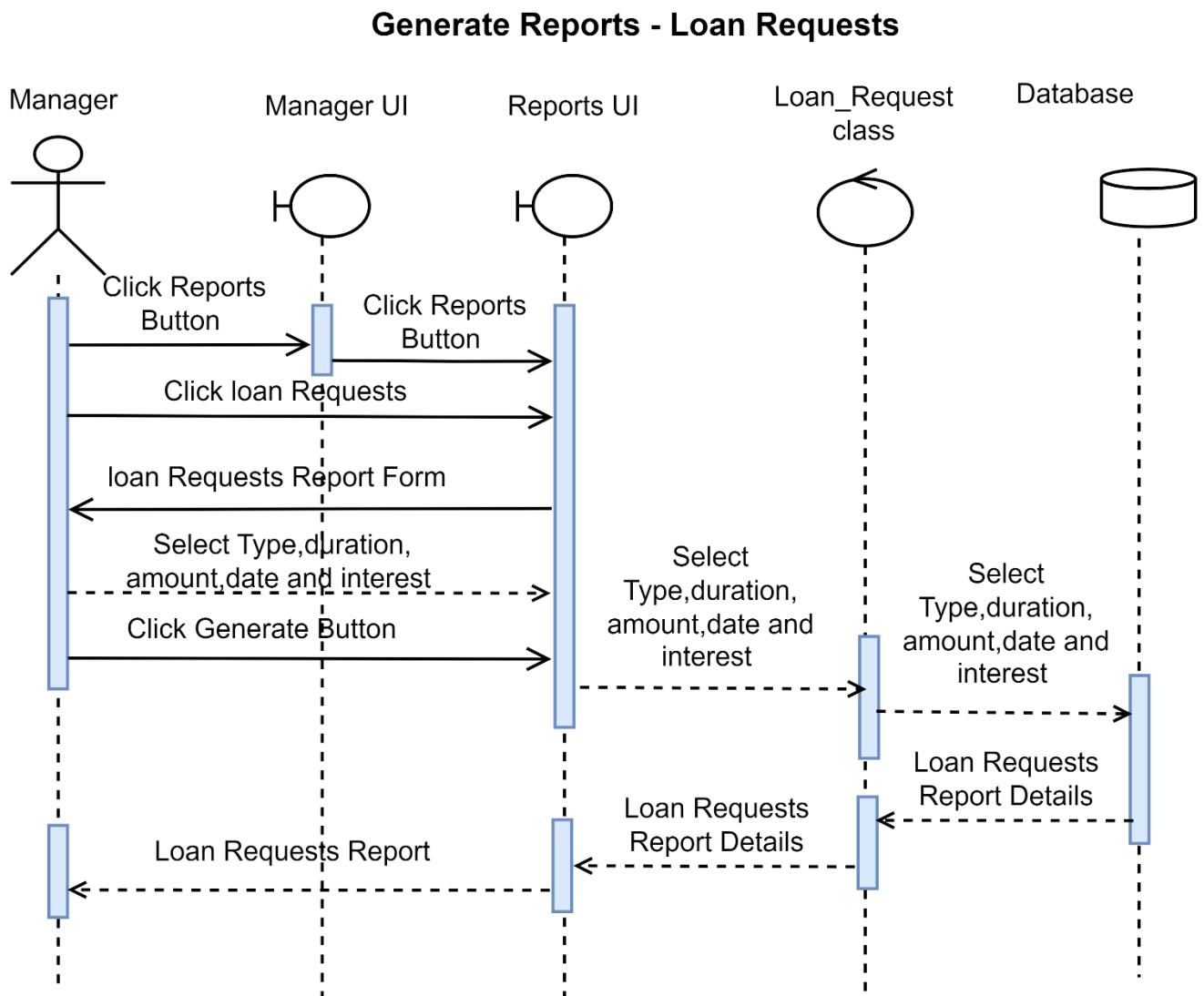


Figure 43 Loan Request Report Sequence

## Sequence Diagram for Arrange Meetings Use Case Diagram

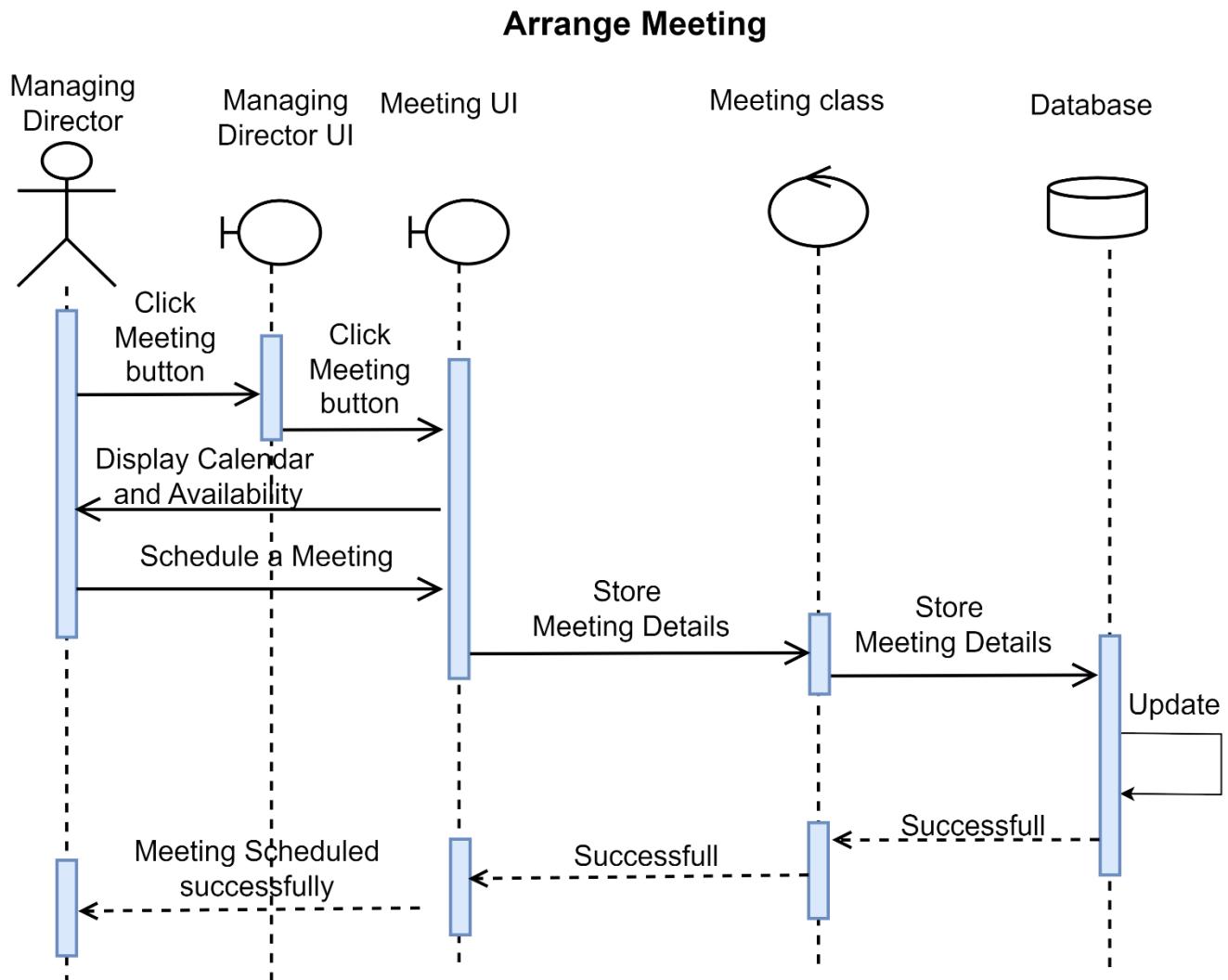


Figure 44 Arrange Meeting Sequence

## Sequence Diagram for Check Employee Performance Use Case Diagram

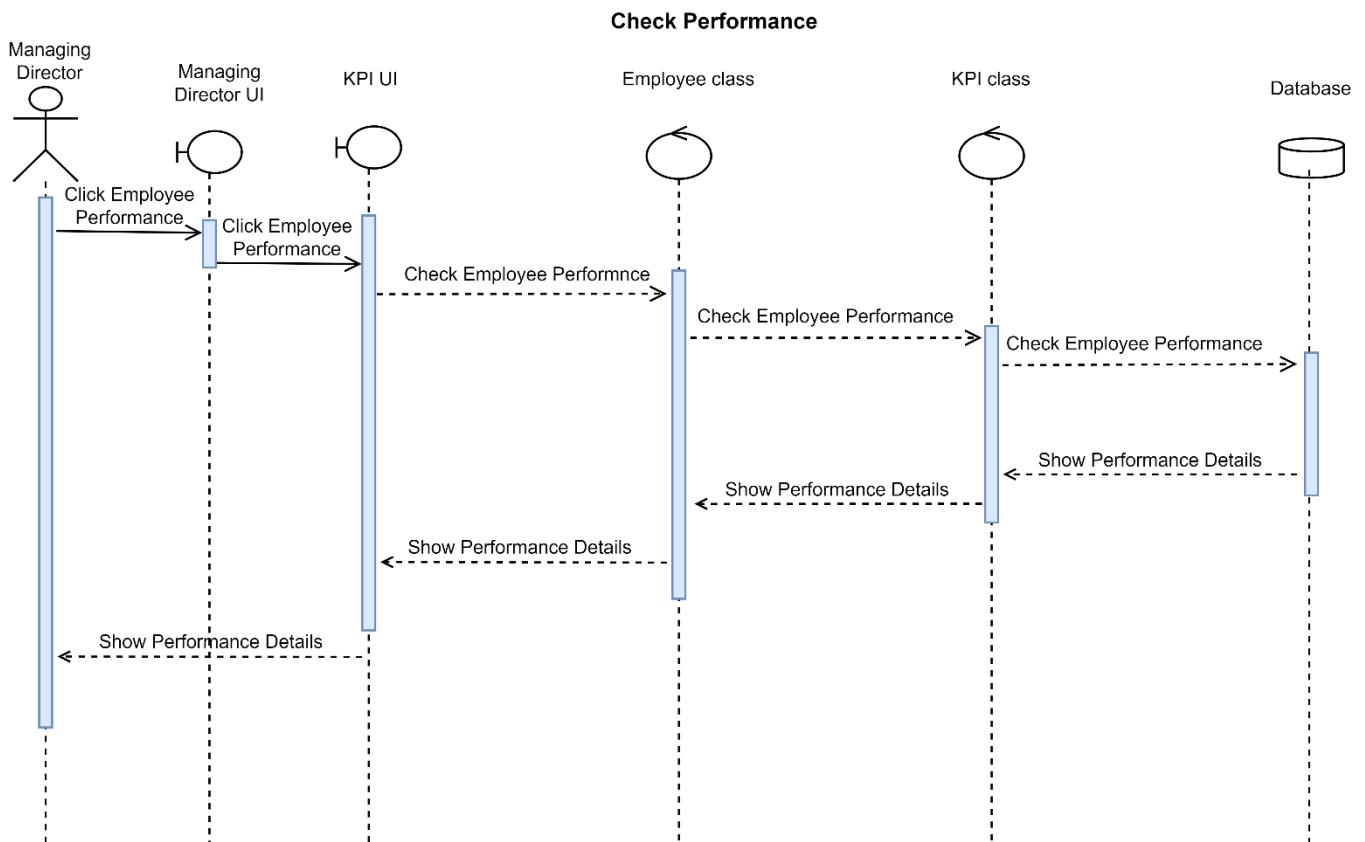


Figure 45 Check Performance Sequence

## Sequence Diagram for Promote Employee Use Case Diagram

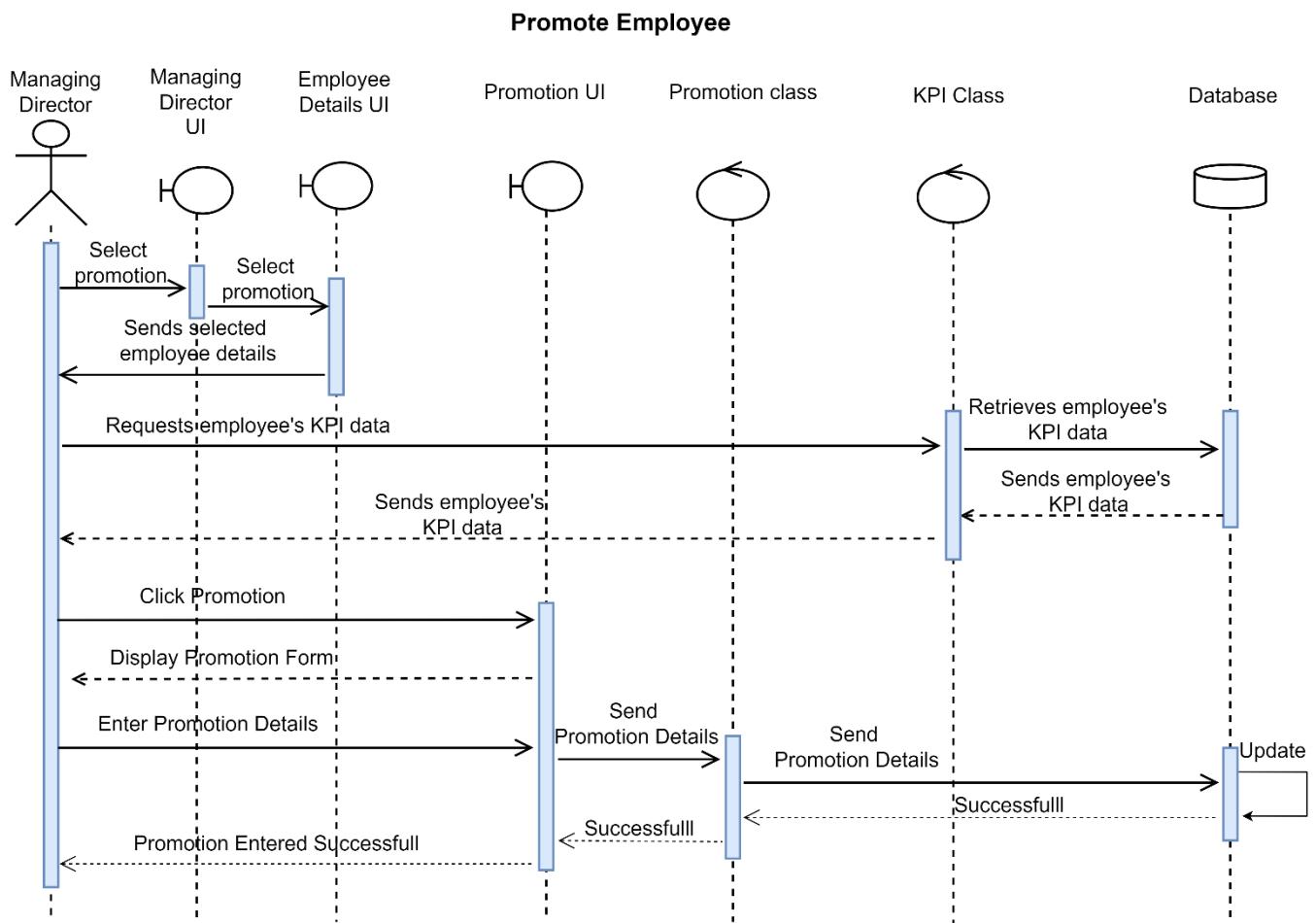


Figure 46 Promote Employee Sequence

### 3.3 ER Diagrams of Proposed System

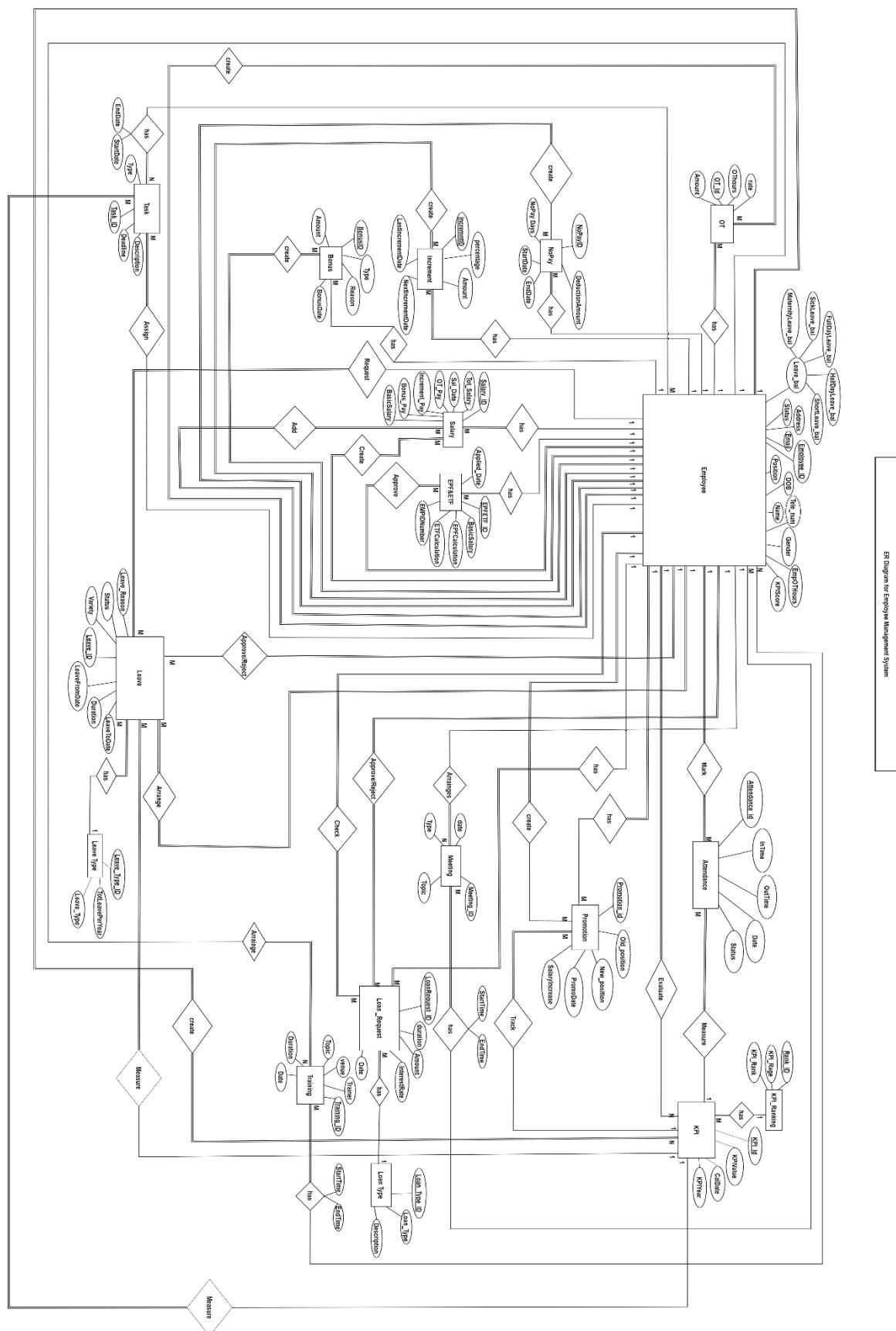


Figure 47 ER Diagram

### 3.4 Chapter Summary

As described in the above chapter, Introduction about the analysis and the current system and the proposed system are analyzed with the help of diagrams.

In brief, UML stands for Unified Modelling Language. It is a standard visual language for describing modelling and documenting the components and structure of the software system.

Under UML diagrams, several other main diagram types were used for our project.

They are,

- Class Diagram:

A class diagram in the Unified Modeling Language is a type of static structure diagram that describes the structure of a system by showing the system's classes, their attributes, operations, and the relationships among objects.

- Sequence Diagrams:

A sequence diagram consists of a group of objects that are represented by lifelines, and the messages that they exchange over time during the interaction.

- Use Case Diagrams:

Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, service, and functions that the system needs to perform.

- ER Diagram:

ER-modeling is a data modeling method used in software engineering to produce a conceptual data model of an information system. Diagrams created using this ER-modeling method are called Entity-Relationship diagrams or ER diagrams or ERDs.

By that diagrams represent the process of the system.

## **Chapter 4: Solution Design**

### **4.1 Introduction**

User interface (UI) design is the process of designing the visual elements of a software application or website, with the goal of making the user experience as efficient and easy as possible. It involves creating a layout, color scheme, typography, and other design elements that work together to create an intuitive and visually pleasing interface. Effective UI design can help users understand and interact with the software or website more easily and can also contribute to the overall aesthetic appeal of the product.

## 4.2 Interface Design

- Interface 01
- Login Page
- **This is a login page for Employees.**

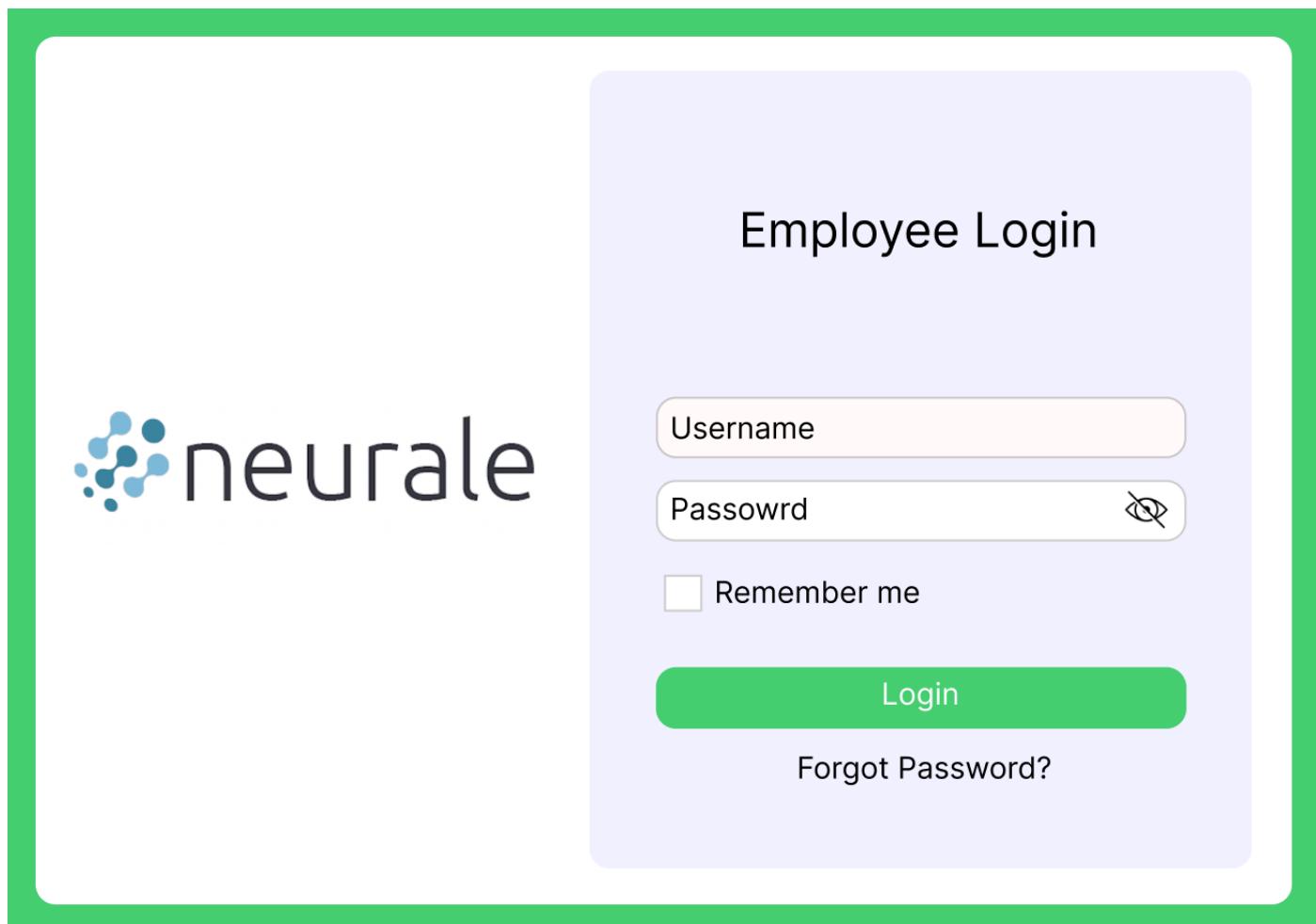


Figure 48 Employee Login Interface

- Interface 02
- Employee Login page Validation 1
- **This is where Employee should enter the correct username**

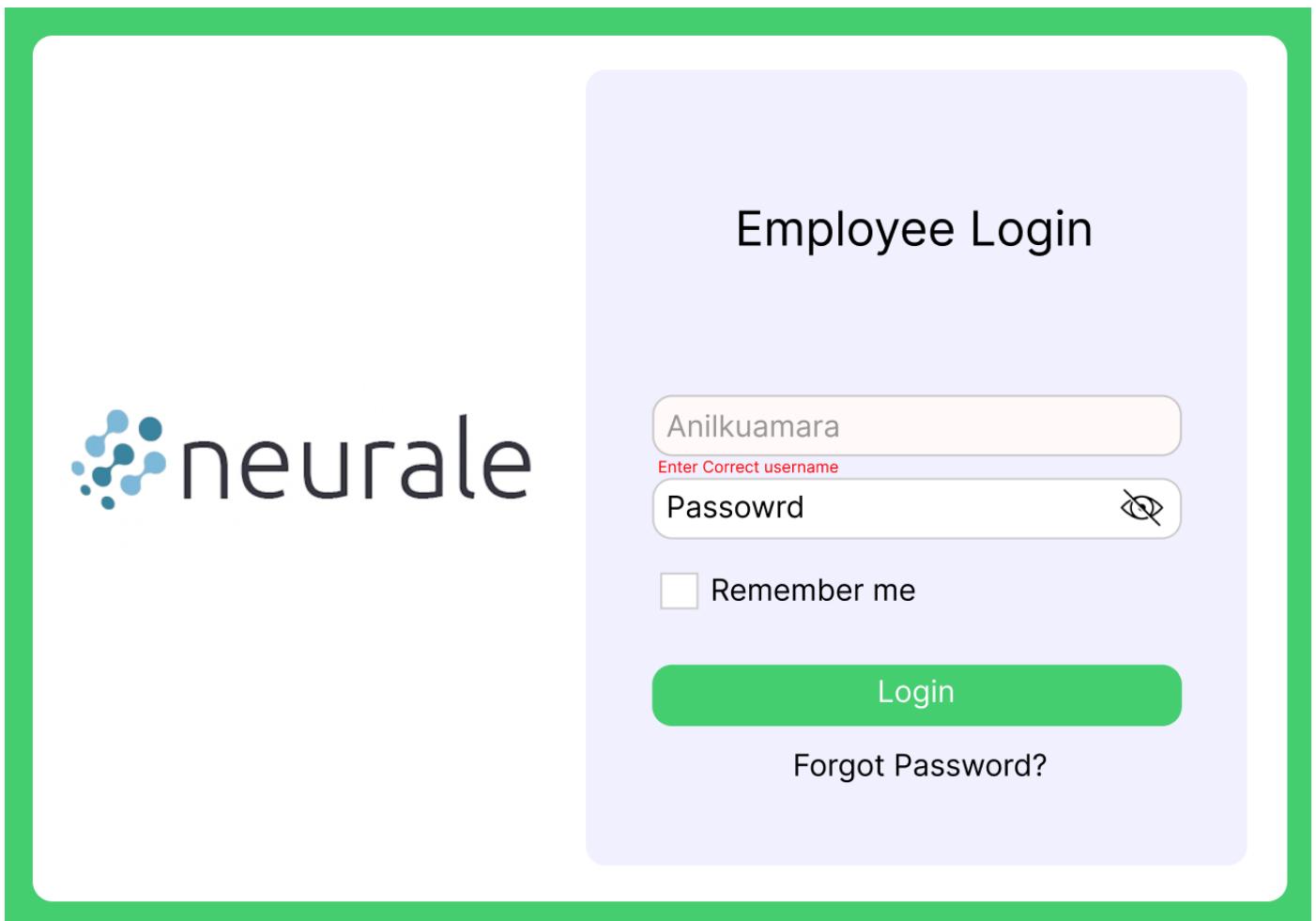


Figure 49 Employee Login validation 1 Interface

- Interface 03
- Employee Login page Validation 2
- **This is where Employee should enter the correct password**

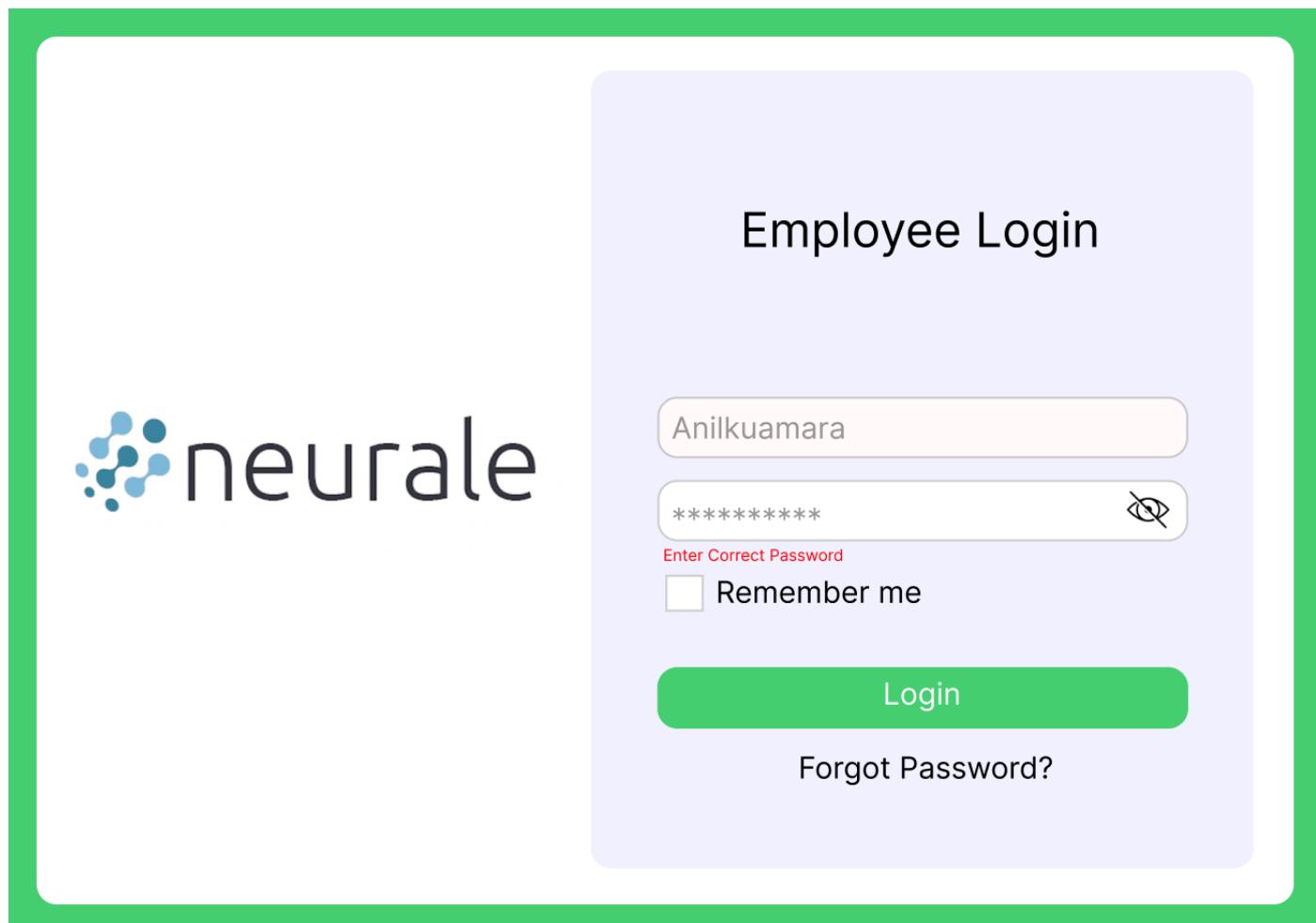


Figure 50 Employee Login validation 2 Interface

- Interface 04
- Employee Dashboard
- **This is a Employee Dashboard**

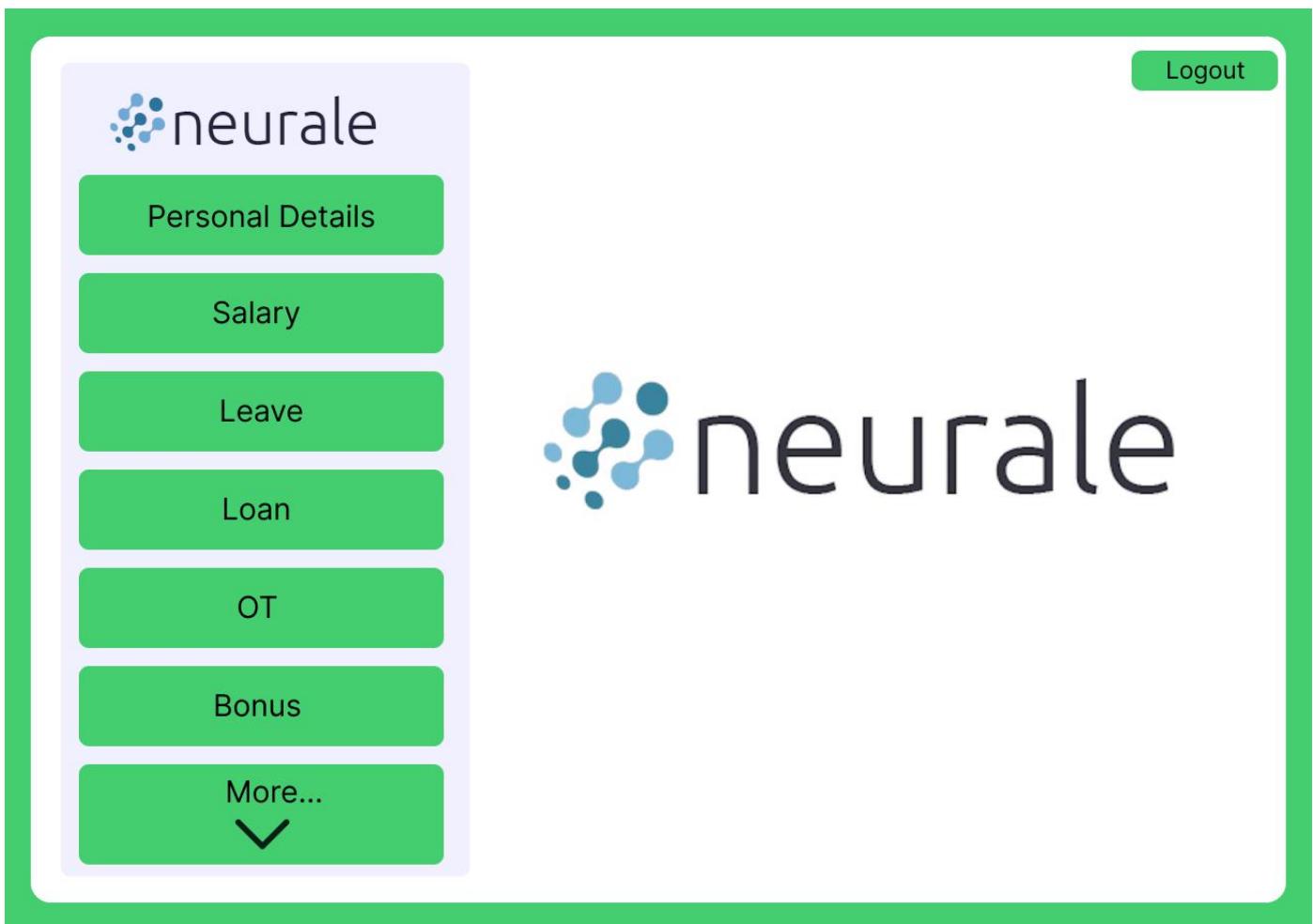


Figure 51 Employee Dashboard Side 1 Interface

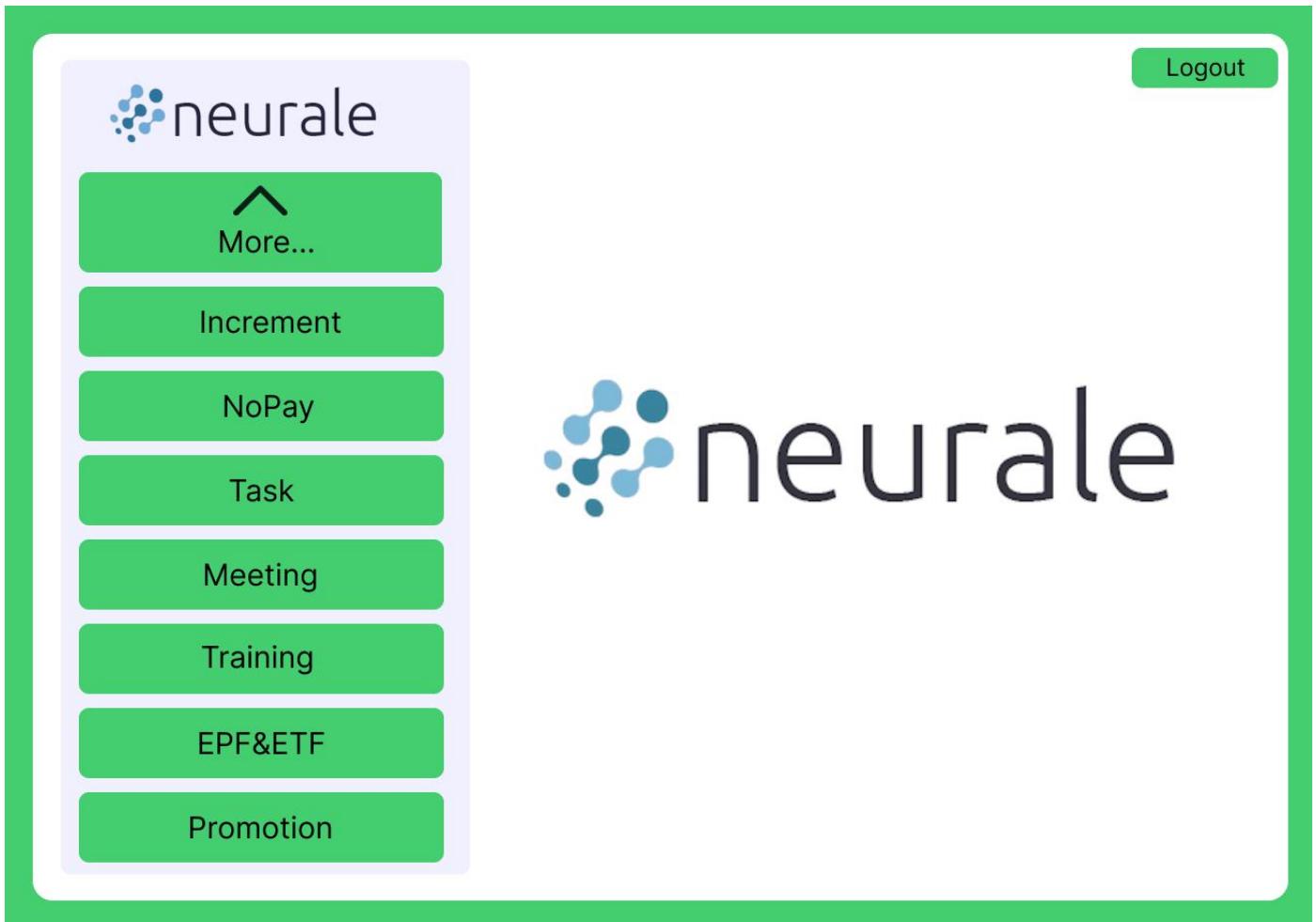


Figure 52 Employee Dashboard side 2 Interface

- Interface 05
- HR Dashboard
- **This is a HR Dashboard**

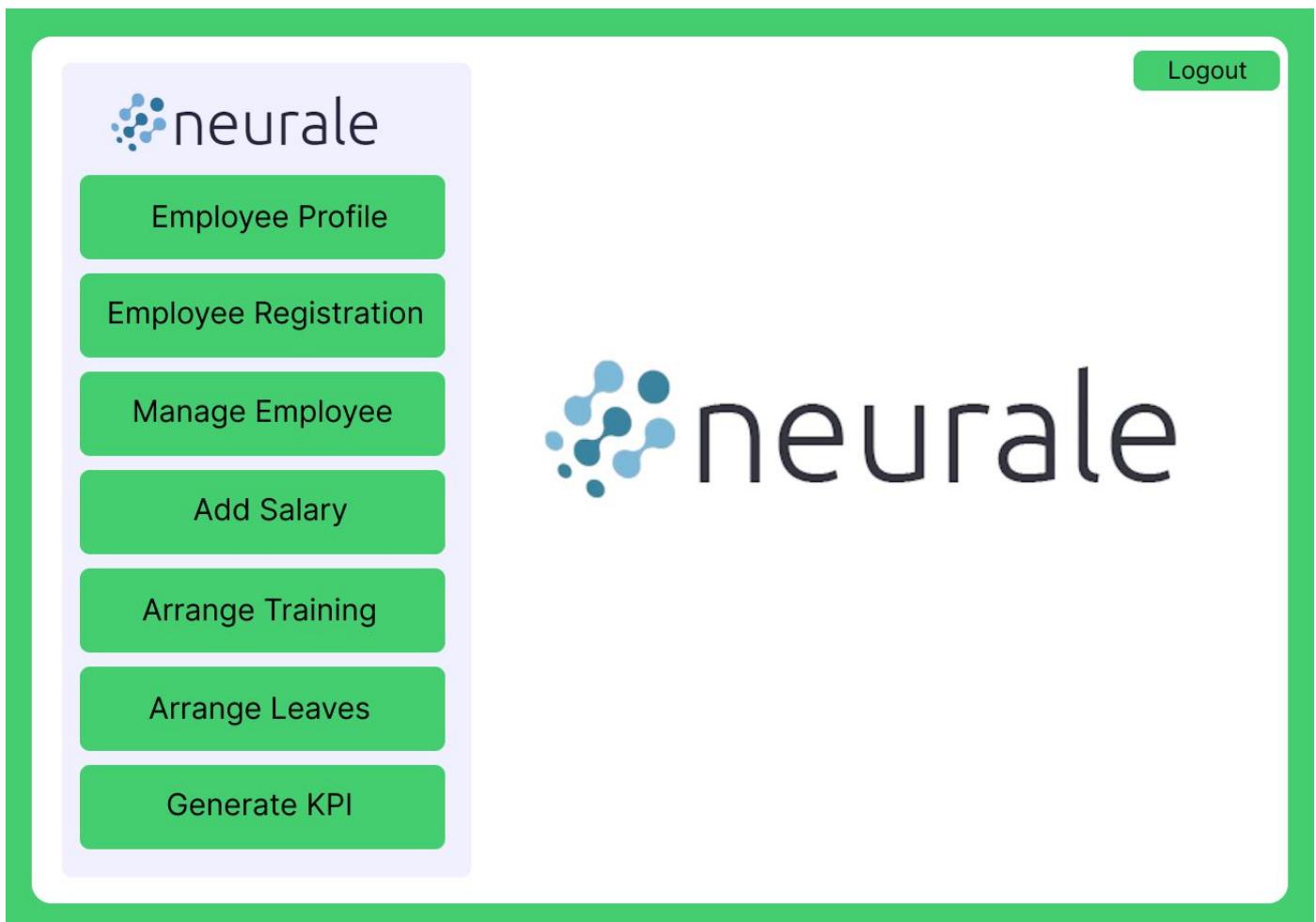


Figure 53 HR Dashboard Interface

- Interface 06
- Accountant Dashboard
- **This is a Accountant Dashboard**

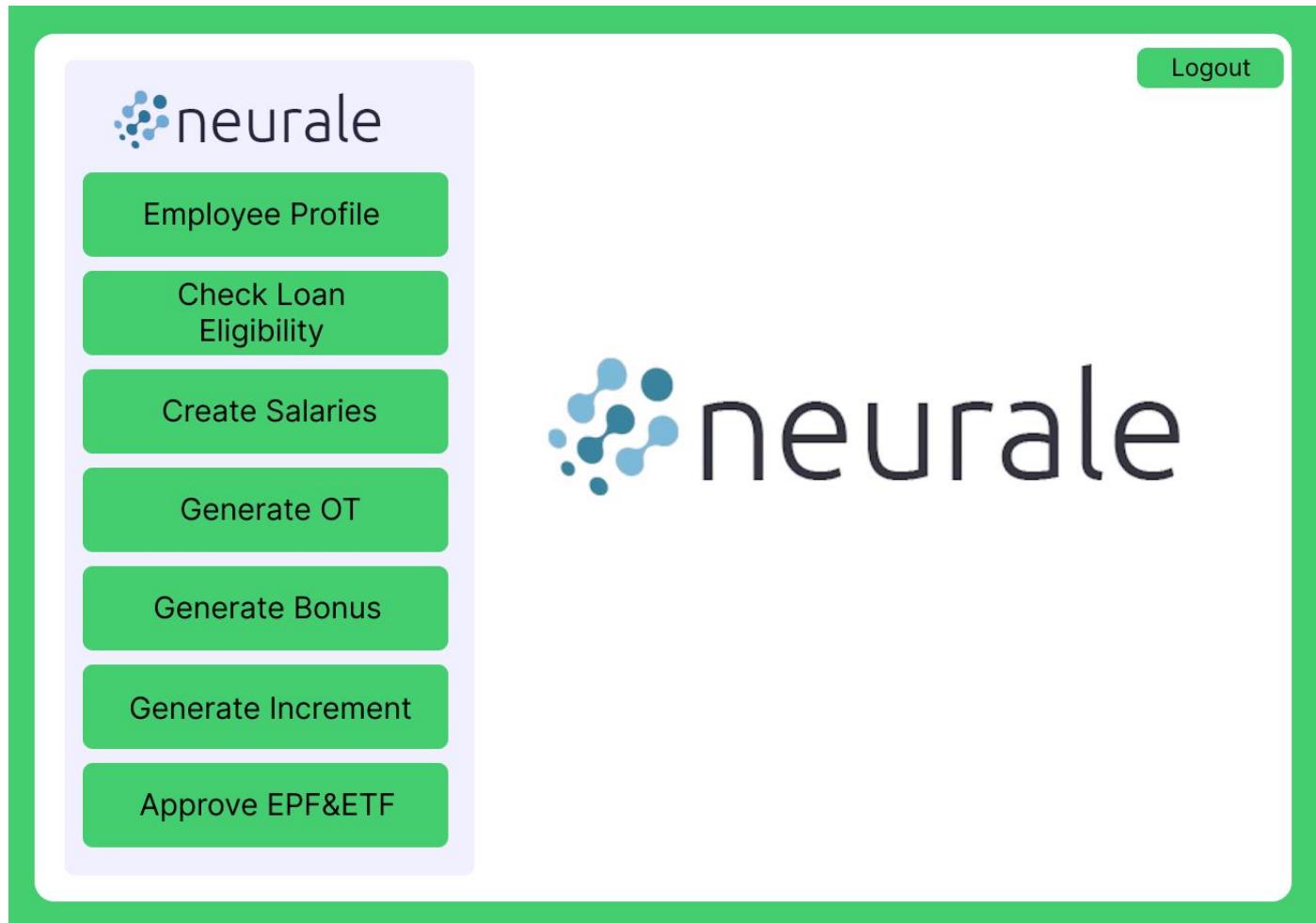


Figure 54 Accountant Dashboard Interface

- Interface 07
- Manager Dashboard
- **This is a Manager Dashboard**

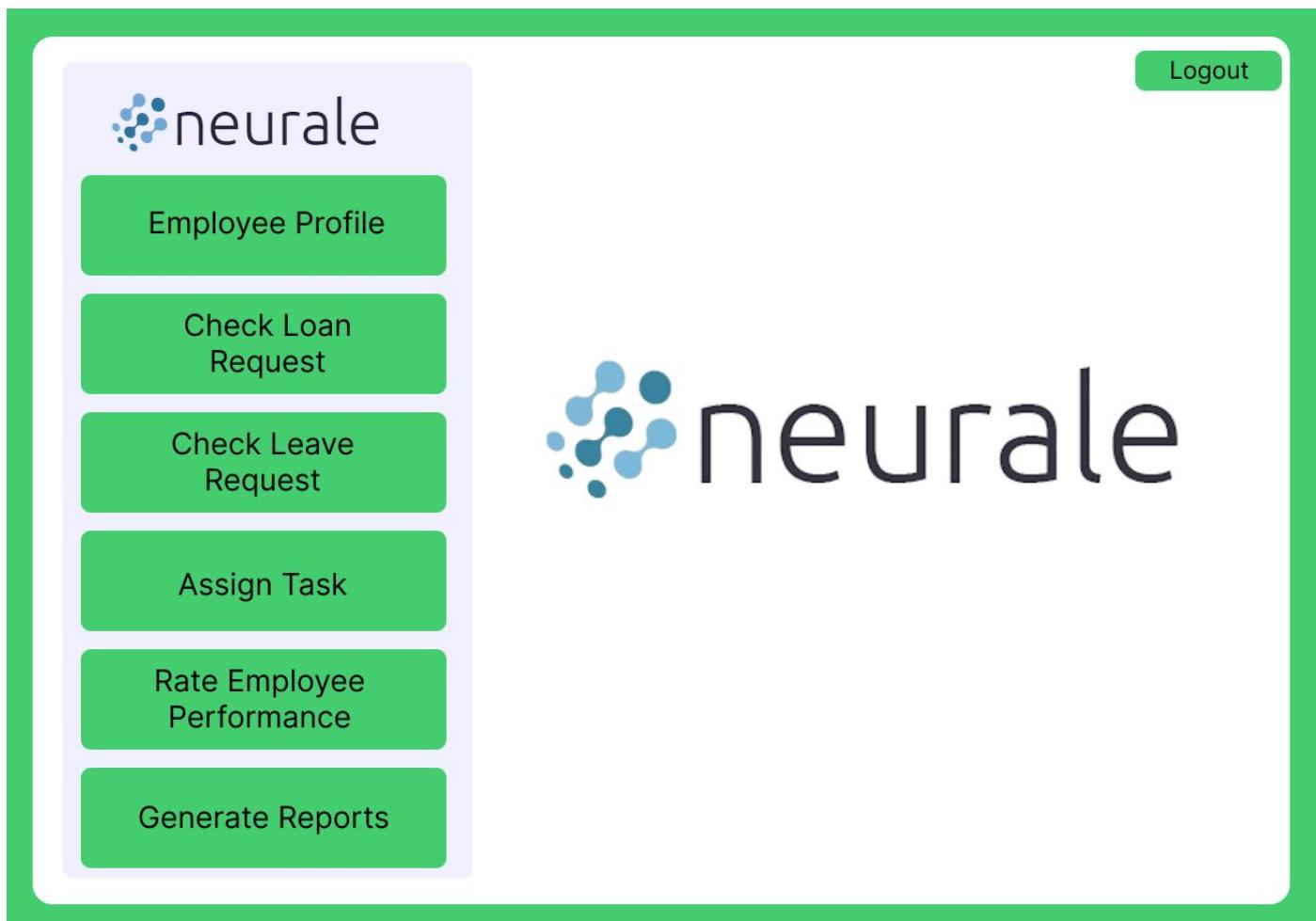


Figure 55 Manager Dashboard Interface

- Interface 08
- Managing Director Dashboard
- **This is a Managing Director Dashboard**

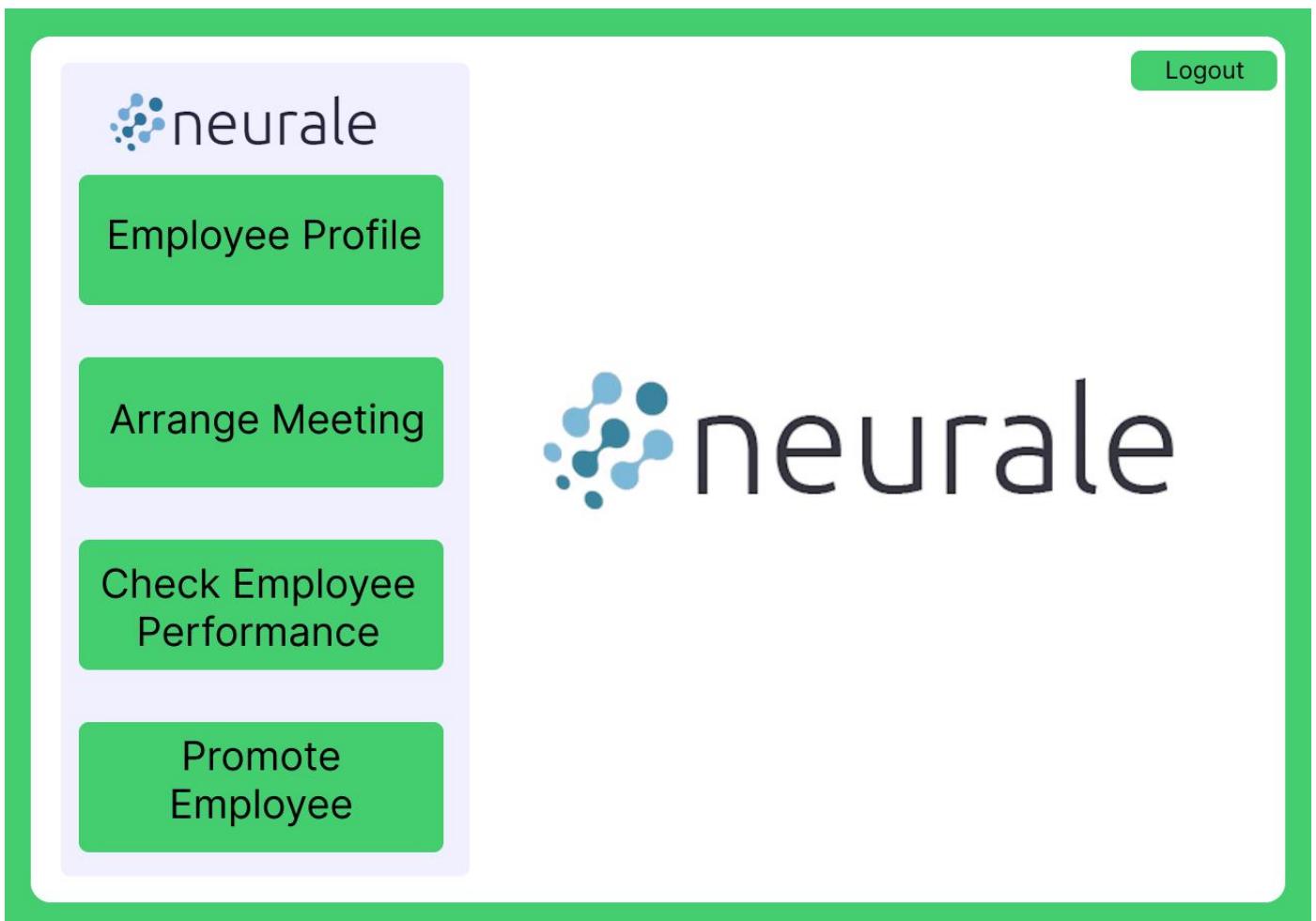


Figure 56 Managing Director Dashboard Interface

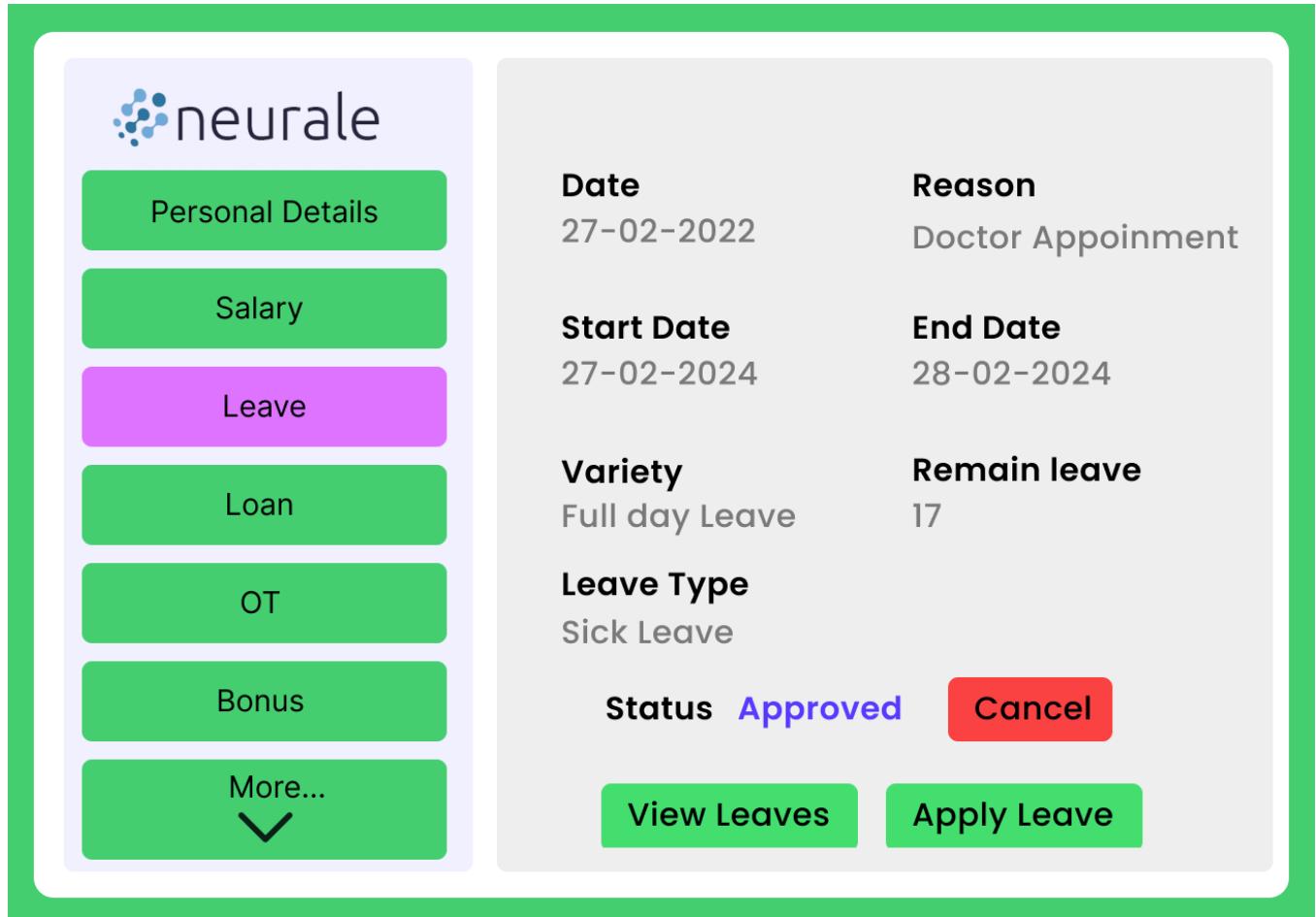
- Interface 09
- Employee Personal Details
- **This is Employee Personal Details Profile**

The screenshot displays the 'Employee Personal Details' interface for an employee named Jhon Mackanse (Employee ID: SE1). The interface is divided into several sections:

- Left Sidebar:** Contains buttons for 'Personal Details' (highlighted in purple), 'Salary', 'Leave', 'Loan', 'OT', 'Bonus', and 'More...' (with a downward arrow icon).
- Profile Section:** Features a circular profile picture of the employee and the text 'Employee ID : SE1'.
- Basic Information:** Displays details such as Full Name (Jhon Mackanse), Email (jhon1992@gmail.com), Gender (Male), Address (Colombo), Position (Software Engineer), DOB (12/07/1992), Telephone (0778945678), and Status (Six Months).
- Other Information:** Shows OT Hours (12 Hours) and KPI Score (4.3).
- Leave Status:** Provides leave balances: Short Leave Balance (12), Sick Leave Balance (21), Full Day Leave Balance (19), Half Day Leave Balance (14), and Maternity Leave Balance (--).

Figure 57 Employee Personal Details Interface

- Interface 10
- Employee Check Leave Approval
- **This is Employee can check leave Approval**

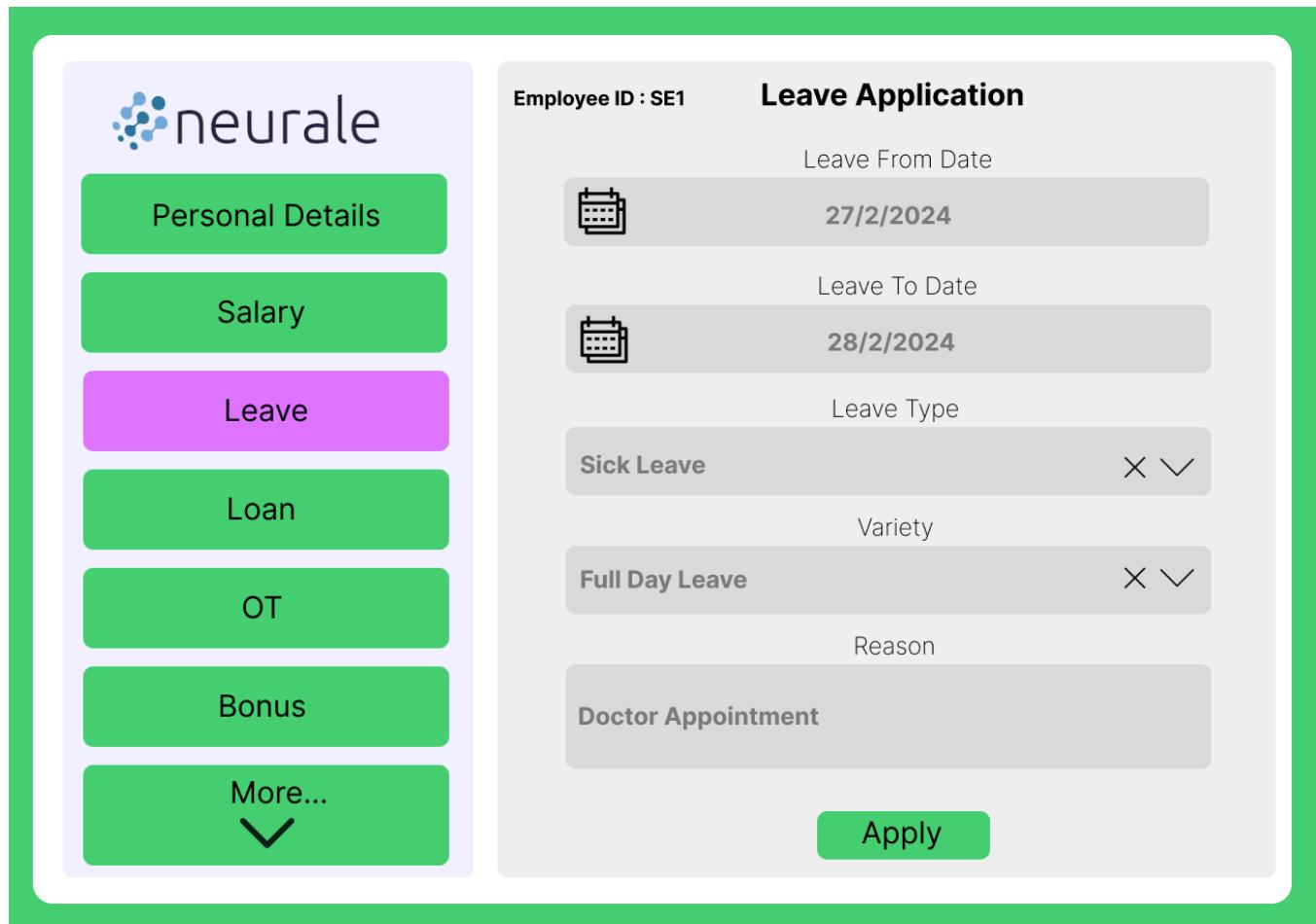


The screenshot shows a mobile application interface for leave management. On the left, a sidebar menu lists "Personal Details", "Salary", "Leave" (selected), "Loan", "OT", "Bonus", and "More...". The main content area displays leave details:

<b>Date</b>	27-02-2022	<b>Reason</b>	Doctor Appointment
<b>Start Date</b>	27-02-2024	<b>End Date</b>	28-02-2024
<b>Variety</b>	Full day Leave	<b>Remain leave</b>	17
<b>Leave Type</b>		Sick Leave	
<b>Status</b>		Approved	Cancel
		<b>View Leaves</b>	<b>Apply Leave</b>

Figure 58 Employee Leave Approval Interface

- Interface 11
- Employee Leave Apply
- **This is Employee Leave Apply design.**



The screenshot shows the 'Leave Application' interface for an employee with ID SE1. The interface is divided into two main sections: a sidebar on the left and a main form on the right.

**Left Sidebar:**

- neurale logo
- Personal Details
- Salary
- Leave** (highlighted in pink)
- Loan
- OT
- Bonus
- More... (with a dropdown arrow icon)

**Right Main Form:**

**Employee ID :** SE1      **Leave Application**

**Leave From Date:**  (Icon: Calendar)

**Leave To Date:**  (Icon: Calendar)

**Leave Type:**  (Icon: X and V)  (Icon: X and V)

**Variety:**  (Icon: Reason)

**Reason:**

**Buttons:**

- Apply button (green)

Figure 59 Employee Leave Apply Interface

- Interface 12
- Employee view Leaves
- **This is Employee can view their previous leaves**

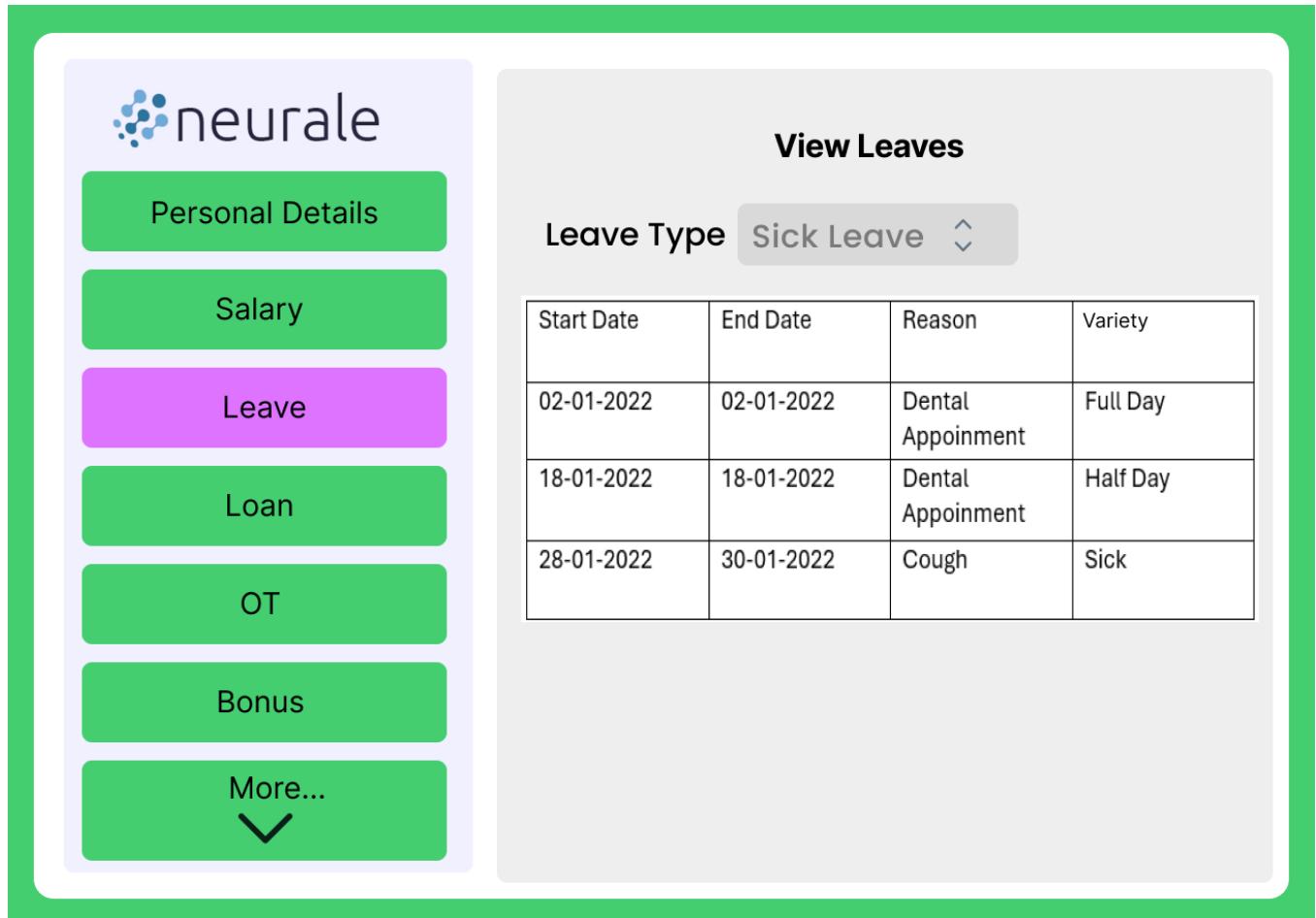


Figure 60 Employee View Leaves

- Interface 13
- Employee Loan Apply
- **This is Employee Loan Apply design.**

The screenshot shows a mobile application interface for 'neurale'. On the left, a vertical navigation bar lists several options: Personal Details, Salary, Leave, **Loan** (highlighted in pink), OT, Bonus, and More... (with a dropdown arrow). The main right panel is titled 'Loan Application' and displays the following fields:

- Employee ID : SE1**
- Loan Type**: Vehicle Loan (dropdown menu)
- Duration**: 2 Years
- Description**: Loan Details (button with download icon)
- Download Pdf**: Loan Apply Form (button with download icon)
- Upload Pdf**: Loan Apply (button with upload icon and file selection dialog: Choose file No File chosen)
- Buttons**: Cancel and Apply

]

Figure 61 Employee Loan Apply Interface

- Interface 14
- Employee OT
- **This is where Employee can view their OT**

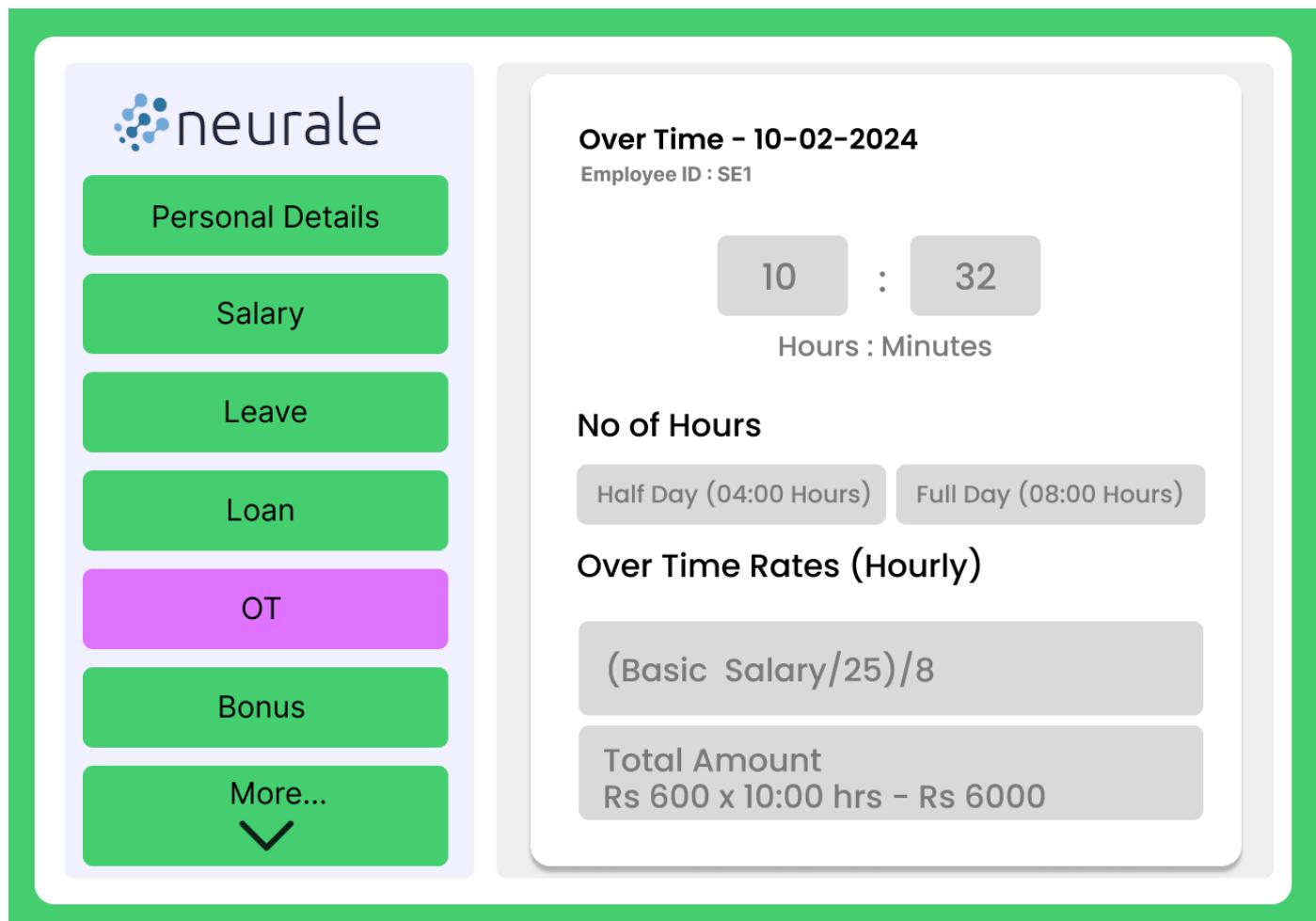


Figure 62 Employee OT Interface

- Interface 15
- Employee Salary
- **This is where Employee can view their Salary Details**

Salary

The screenshot displays the neurale Employee Salary Interface. On the left, a sidebar lists navigation options: Personal Details, Salary (highlighted in pink), Leave, Loan, OT, Bonus, and More... (with a dropdown arrow). The main content area shows salary details for March 2024. It includes sections for Earnings, Deductions, and a summary of amounts.

Earnings	Rs 130000
Basic Salary	Rs 120000
Bonus	Rs 0
Increment	Rs 10000
Overtime	Rs 0

Deductions	Rs 10600
Employee EPF Contribution(8%)	Rs 10400
Advance	Rs 0
NoPay	Rs 0
Loan	Rs 0
Stamp Duty	Rs 200

**Total Amount To Pay:** RS 119400

---

**Salary Paid:** Rs 119400

Figure 63 Employee Salary Interface

- Interface 16
- Employee Bonus
- **This is where Employee can view their Bonus Details**

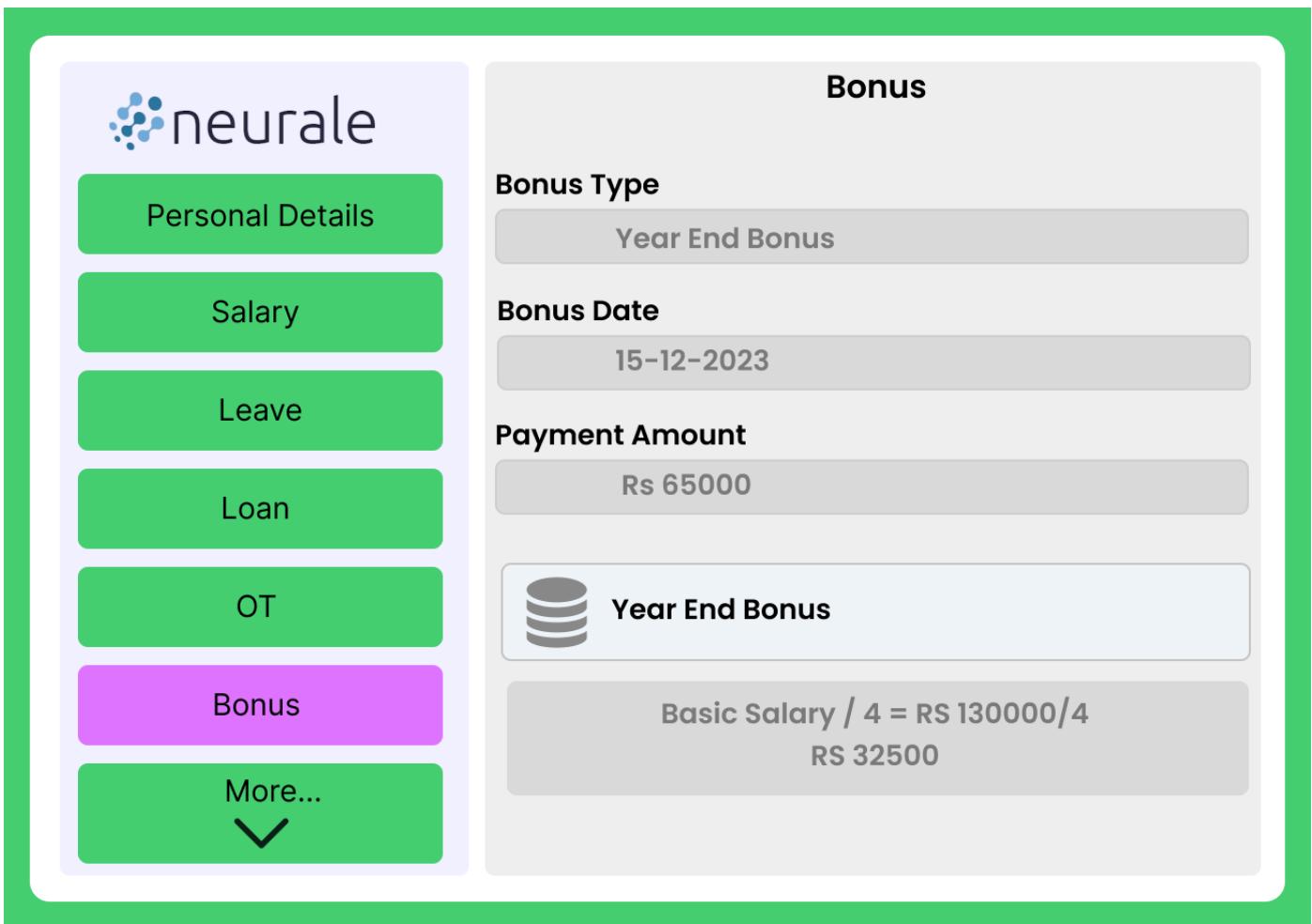


Figure 64 Employee Bonus Interface

- Interface 17
- Employee Increment
- **This is where Employee can view their Increment Details**

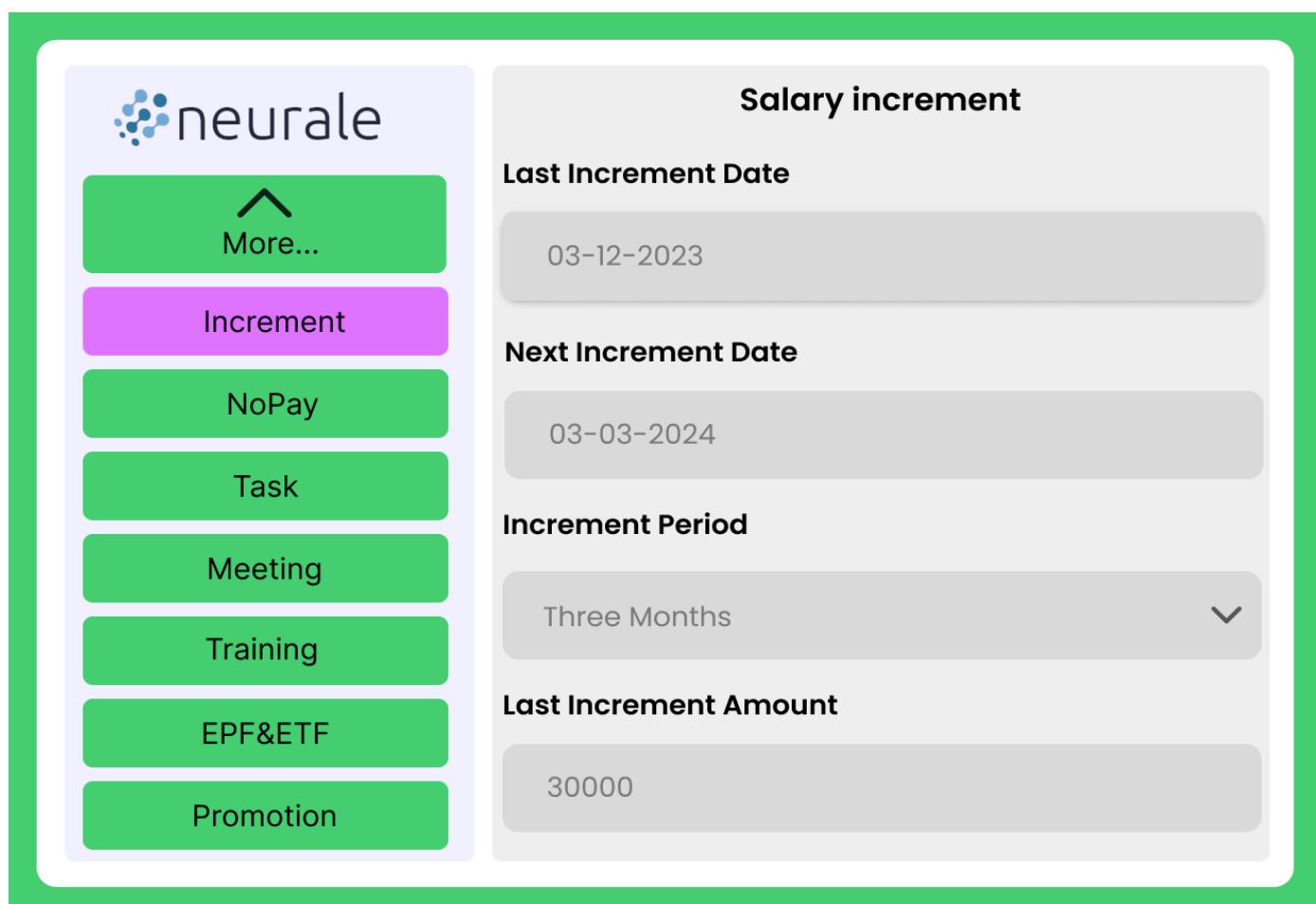


Figure 65 Employee Increment Interface

- Interface 18
- Employee No Pay
- **This is where Employee can view their No Pay Details**

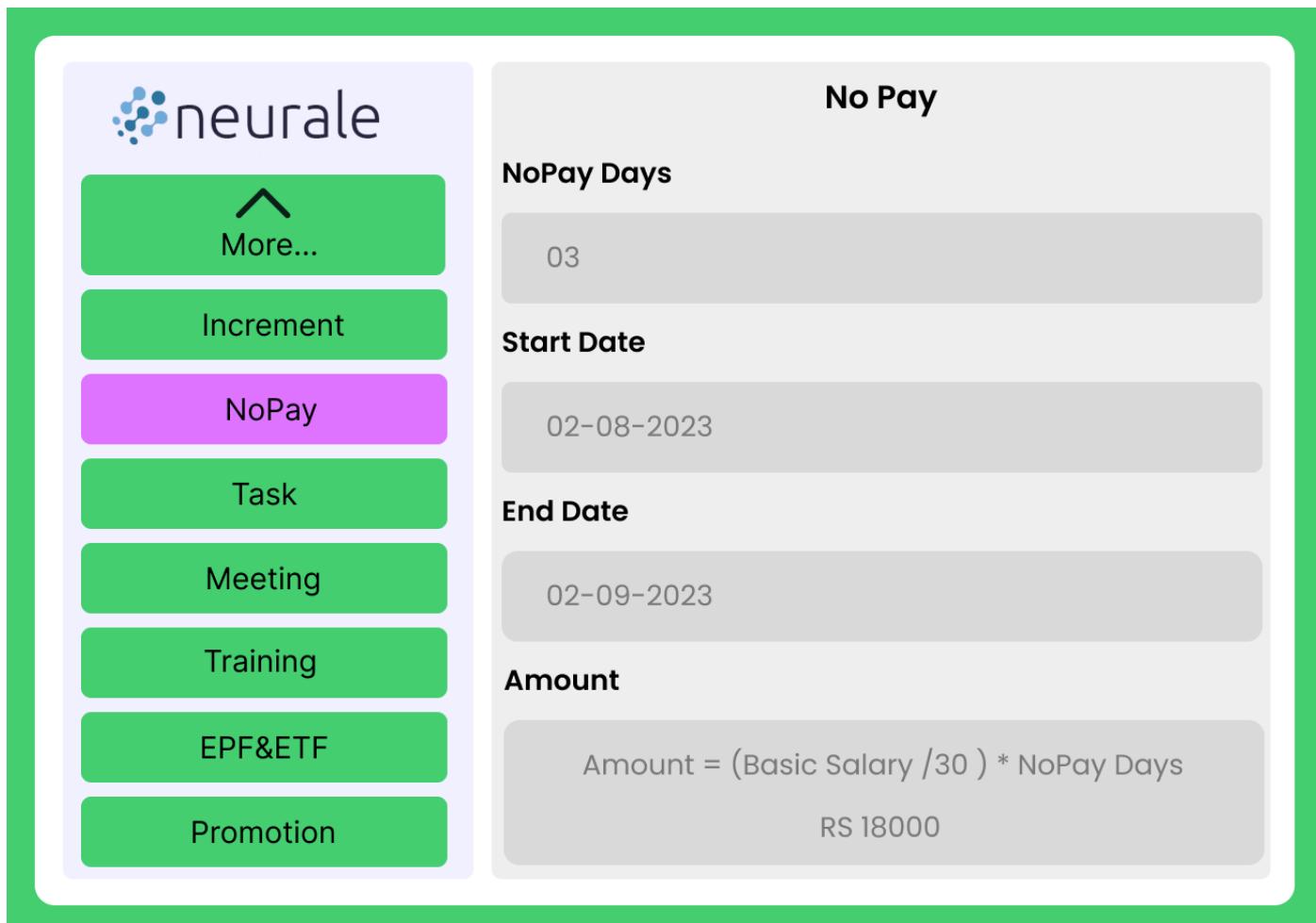


Figure 66 Employee NoPay Interface

- Interface 19
- Employee Task
- **This is where Employee can view their Tasks Details**

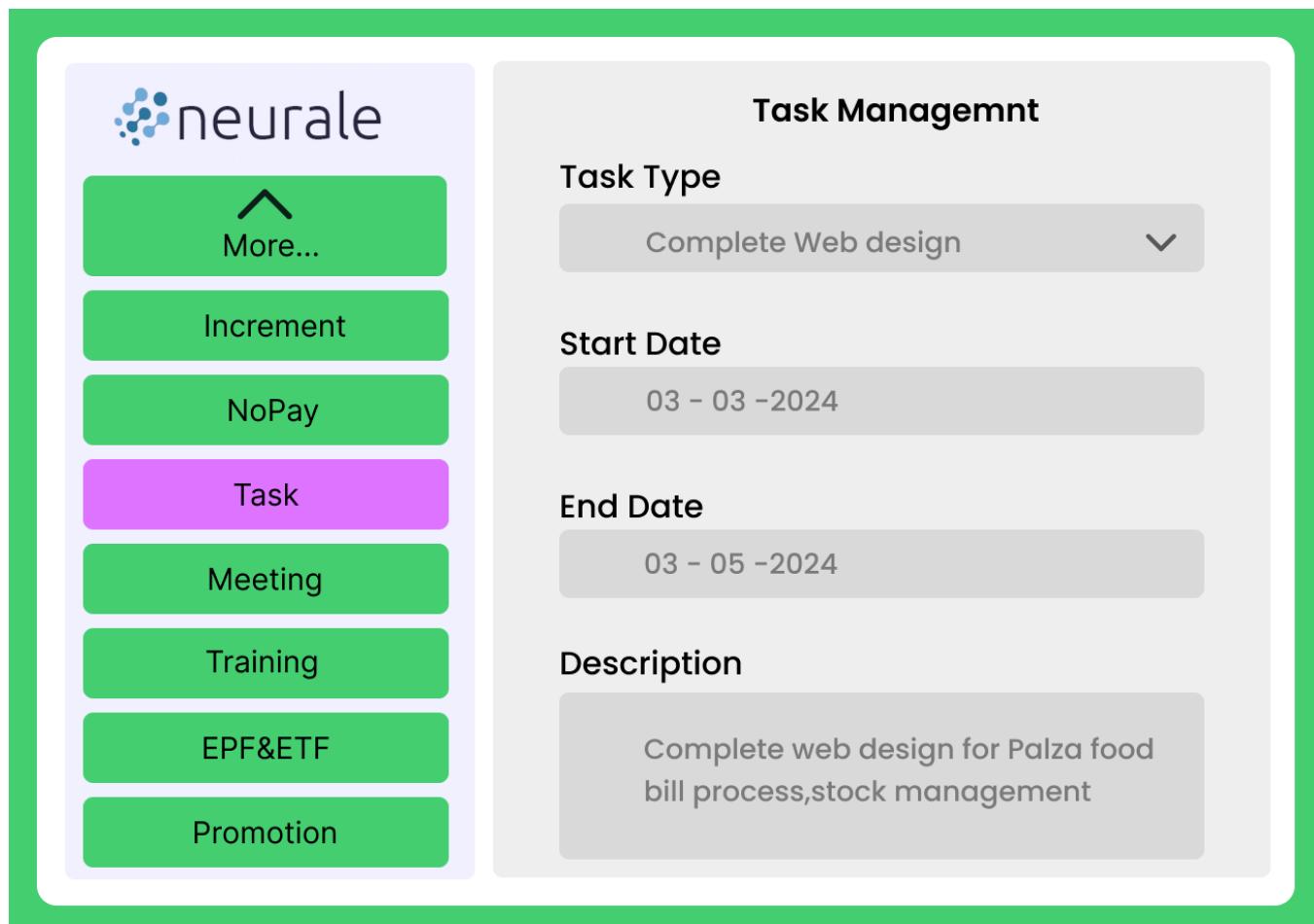
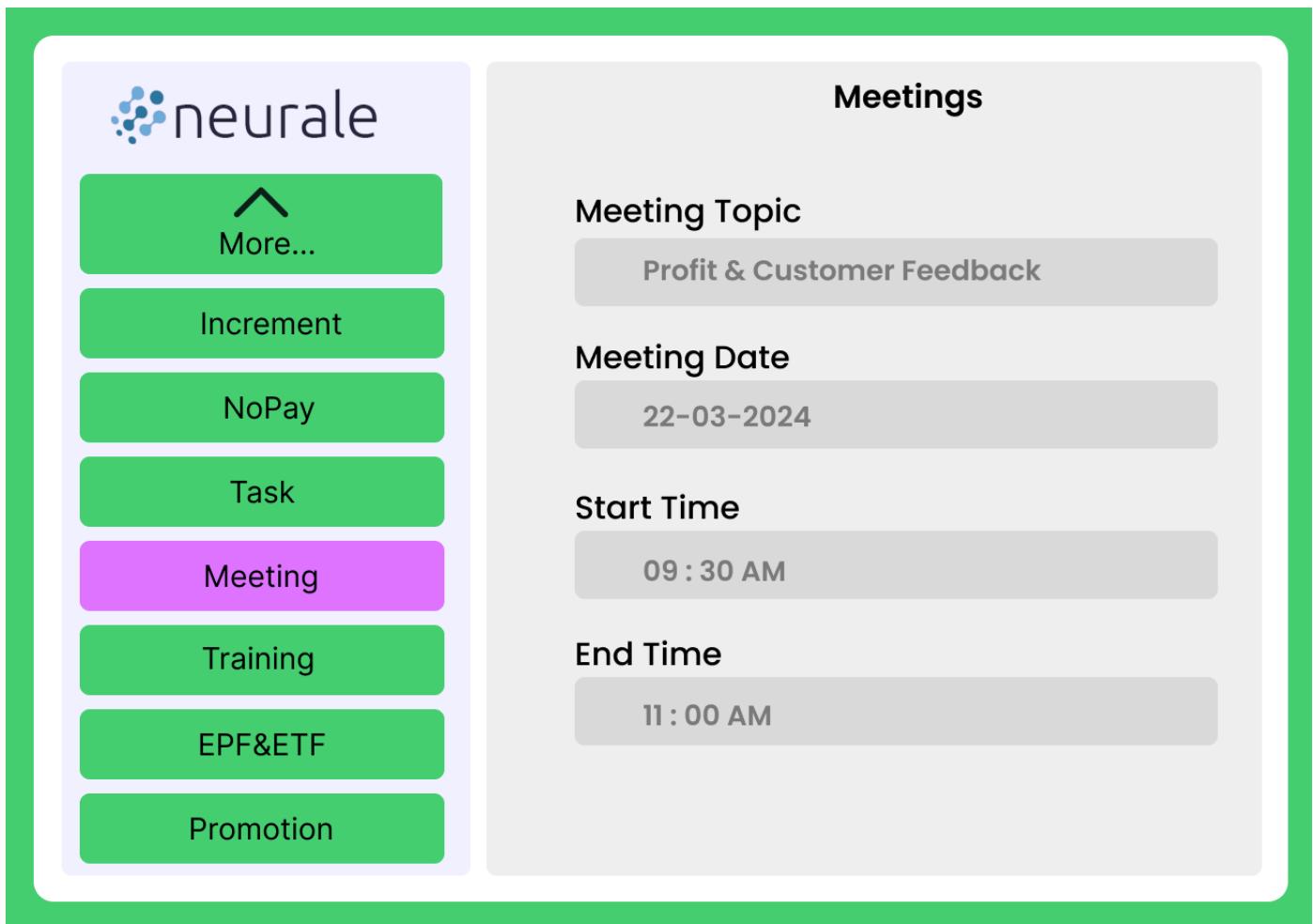


Figure 67 Employee Task Interface

- Interface 20
- Employee Meetings
- **This is where Employee can view their Meetings**



*Figure 68 Employee Meeting Interface*

- Interface 21
- Employee Training
- **This is where Employee can view their Training Management**

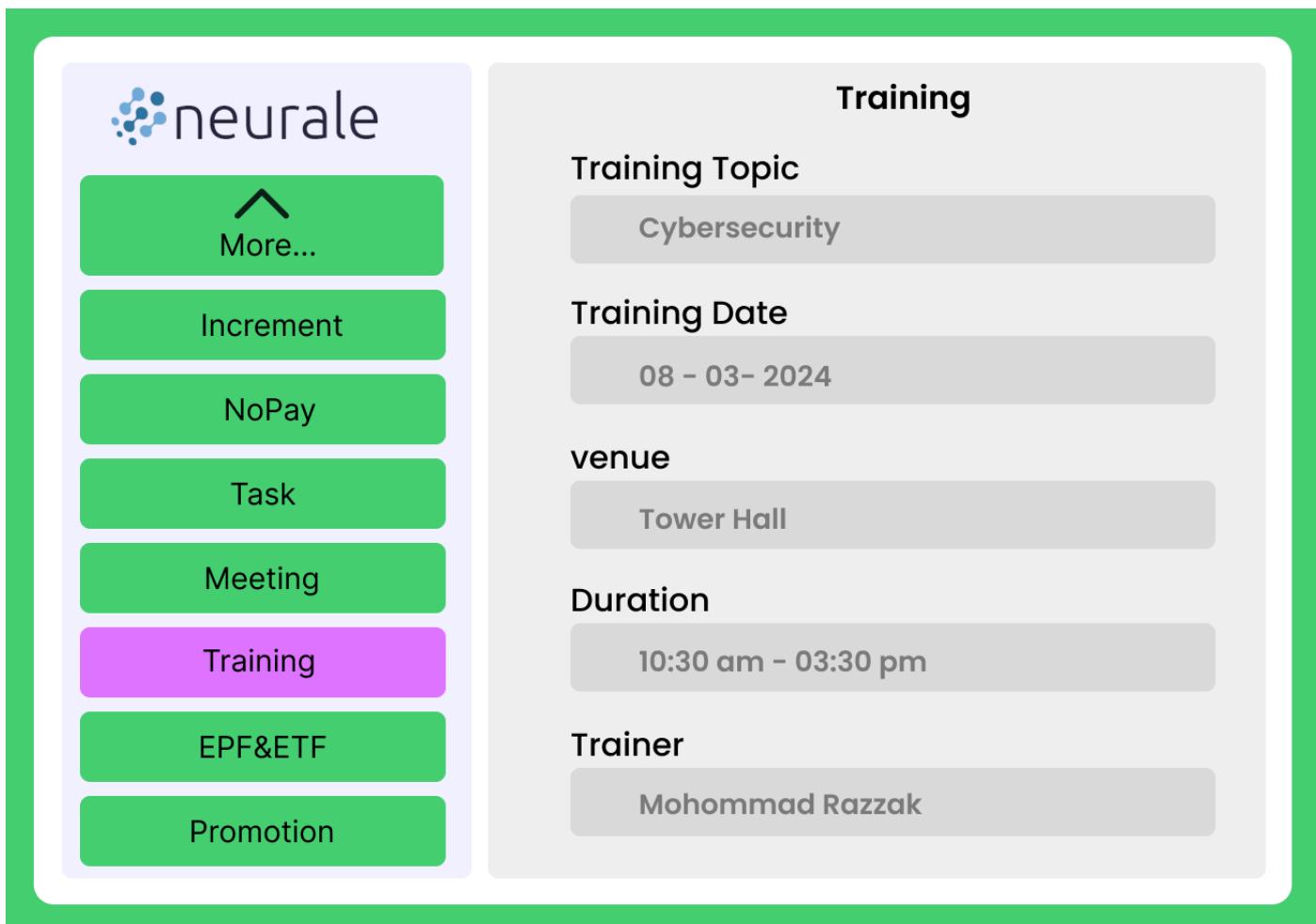


Figure 69 Employee Training Interface

- Interface 22
- Employee EPF & ETF
- **This is where Employee can view their EPF & ETF**

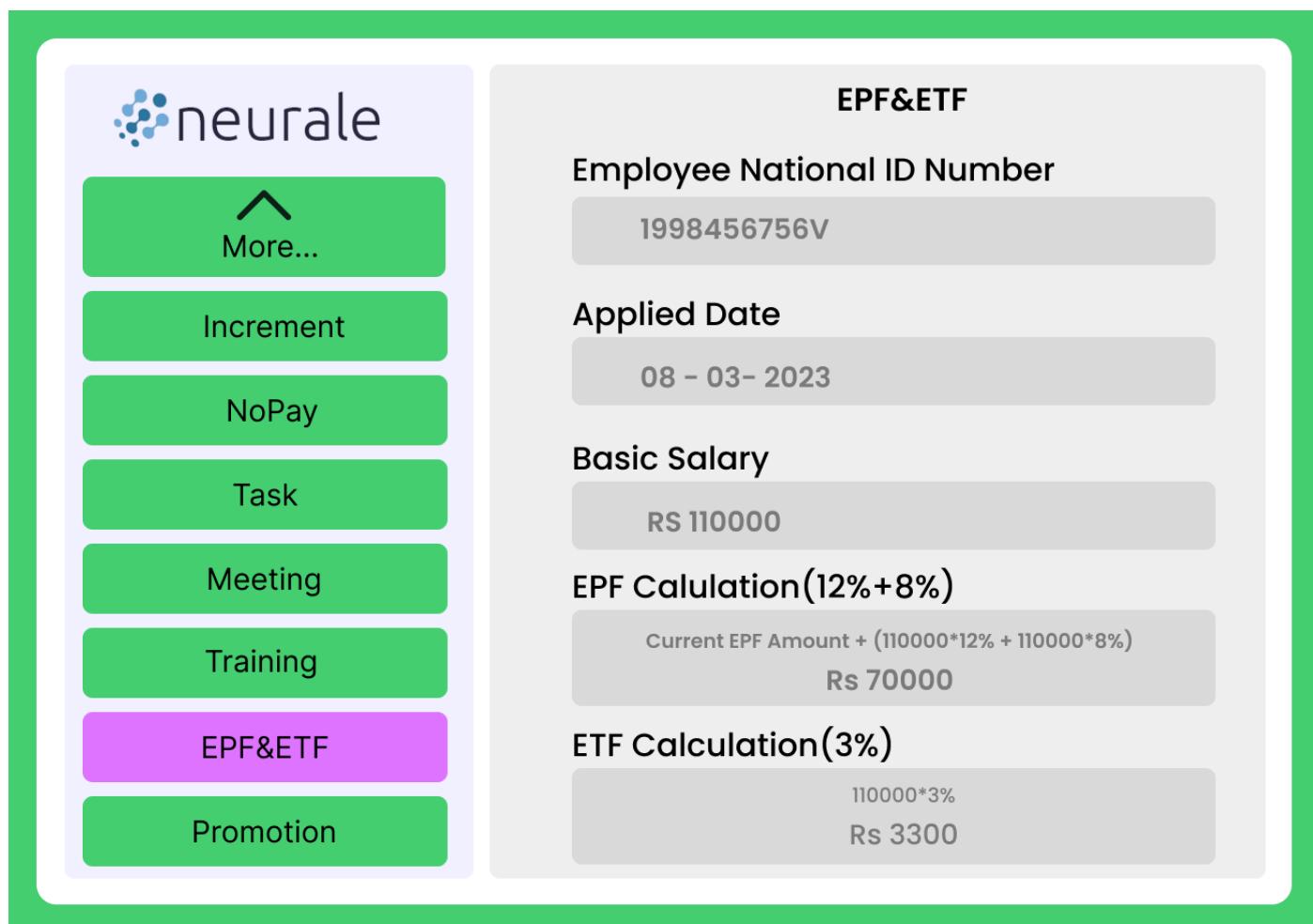


Figure 70 Employee EPF&ETF Interface

- Interface 23
- Employee Promotion
- **This is where Employee can view their Promotion**

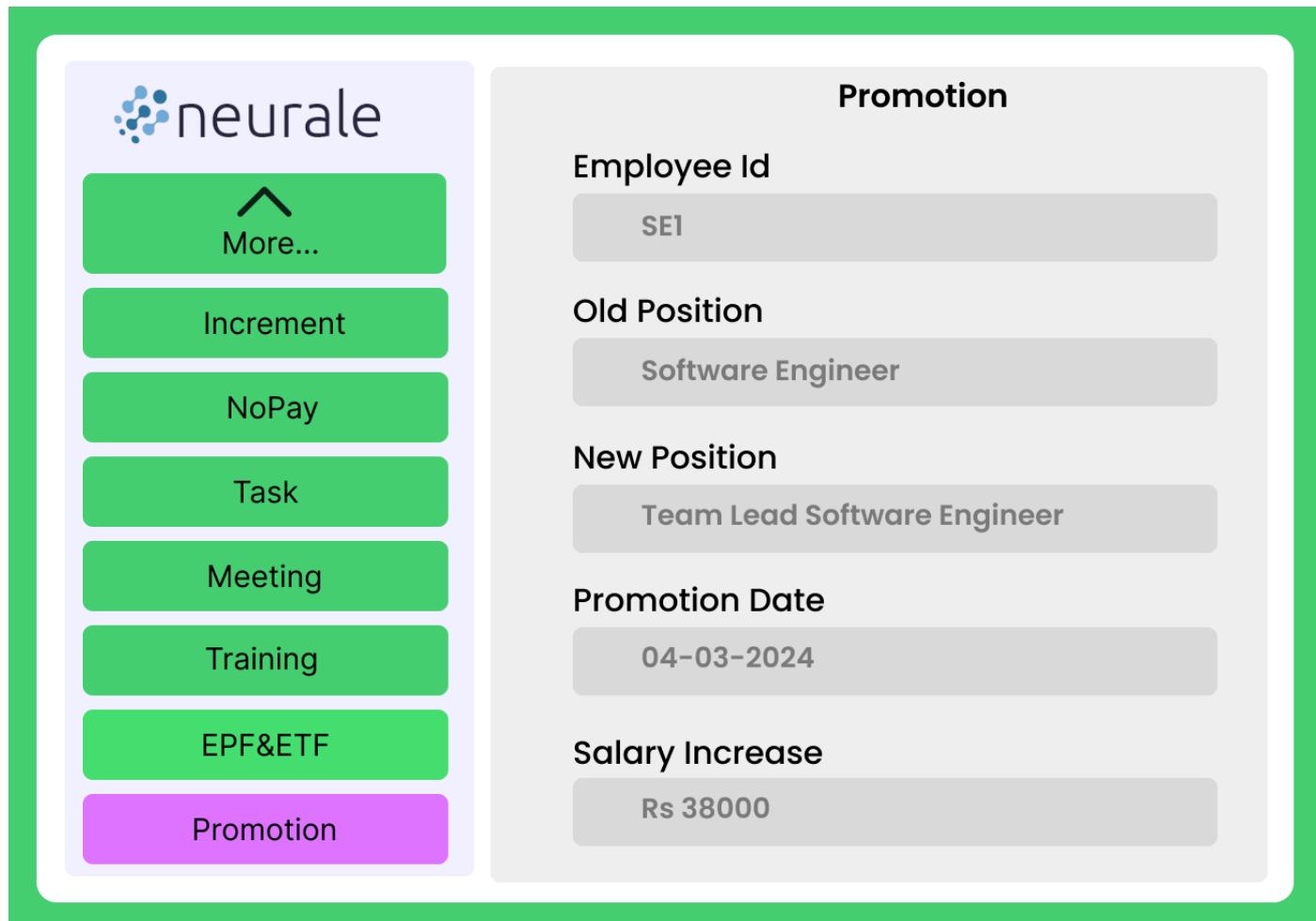
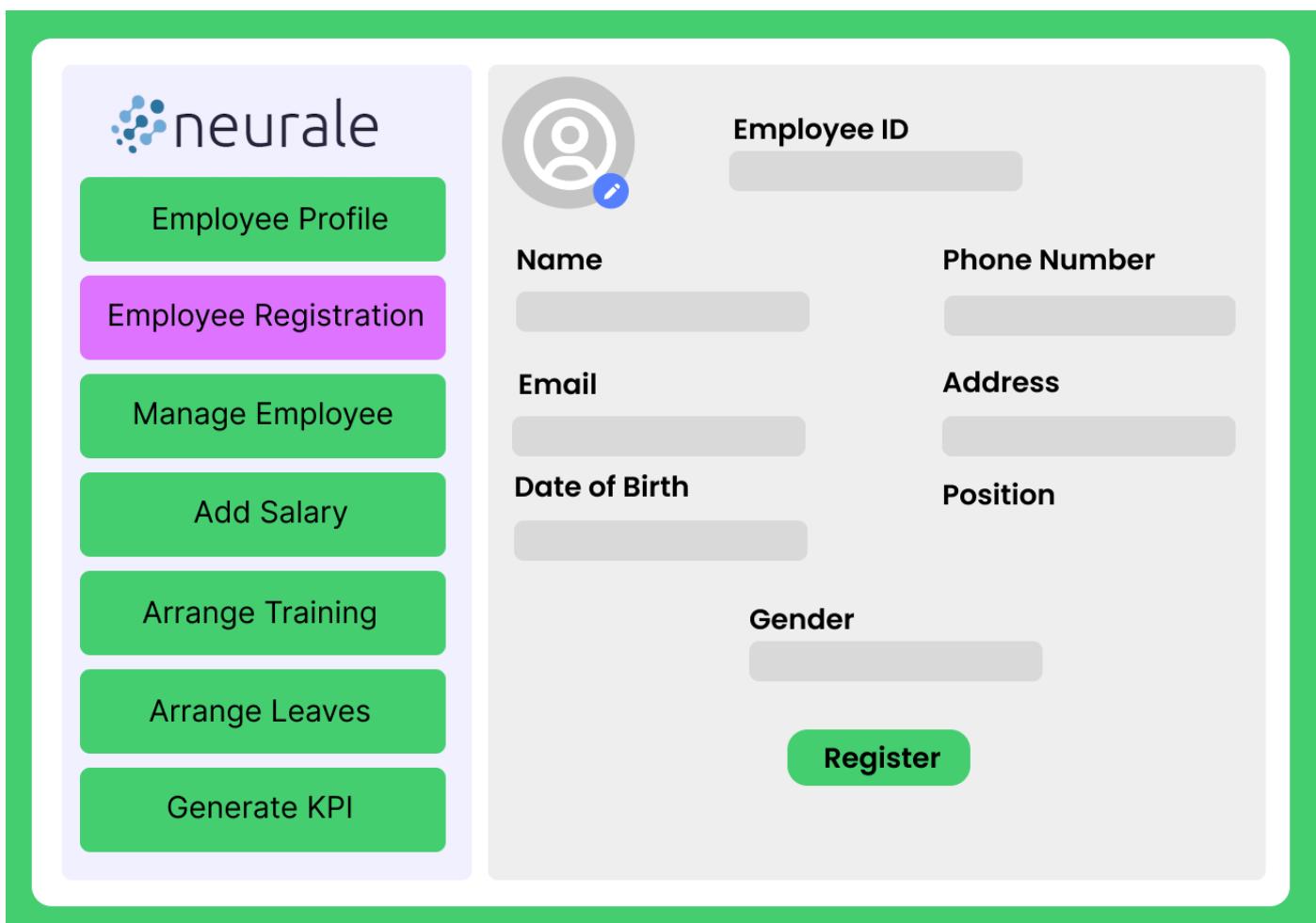


Figure 71 Employee Promotion Interface

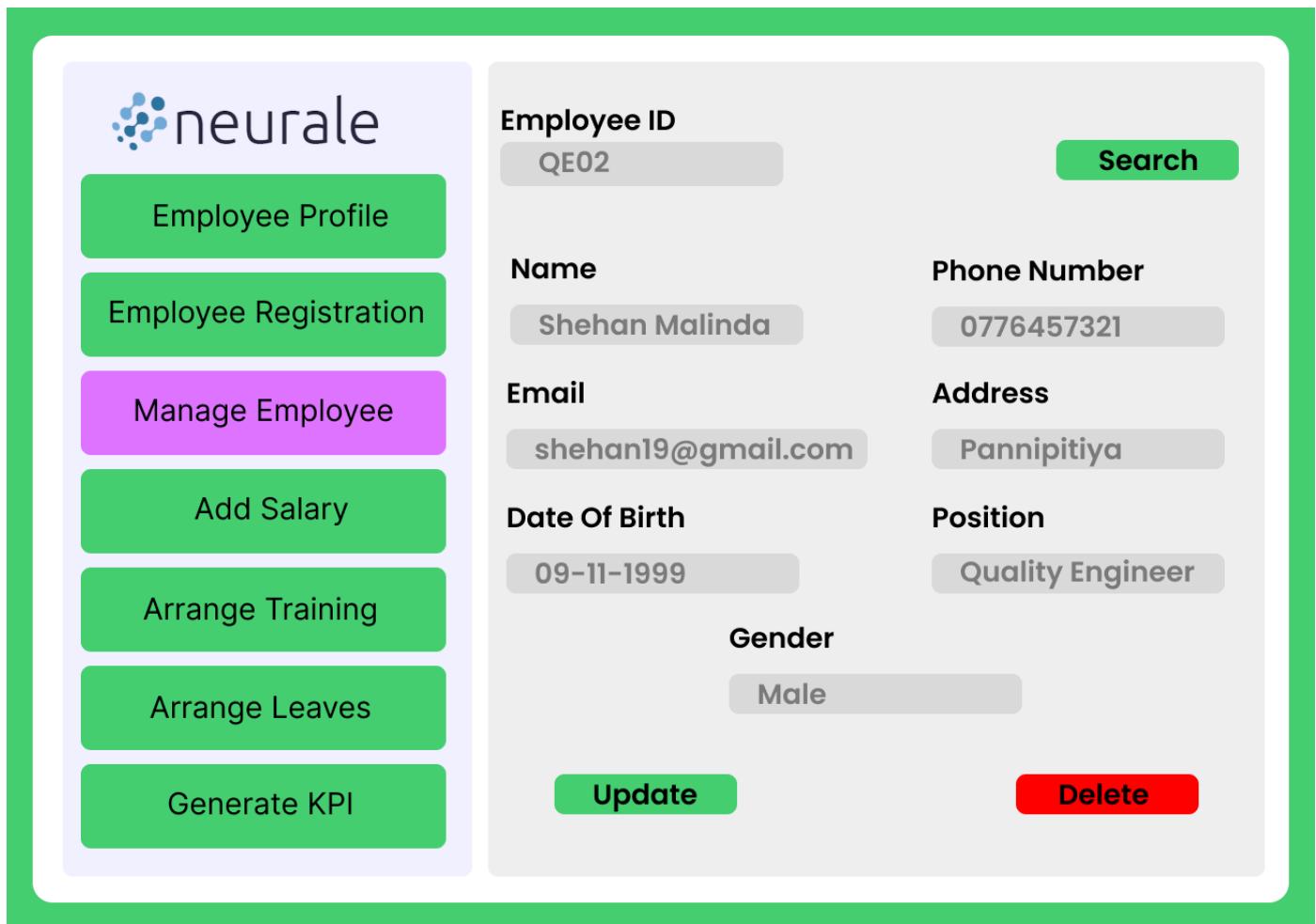
- Interface 24
- Employee Registration
- **This is where HR can Register Employee**



The screenshot shows a mobile application interface for employee management. On the left, a sidebar menu lists several options: Employee Profile (green), Employee Registration (purple), Manage Employee (green), Add Salary (green), Arrange Training (green), Arrange Leaves (green), and Generate KPI (green). The main content area is titled "Employee Registration". It features a placeholder icon with a pencil for "Employee ID". Below it are fields for "Name" and "Phone Number", both with grey input fields. There are also fields for "Email" and "Address", and for "Date of Birth" and "Position". A "Gender" field is present with a grey input field. At the bottom right is a green "Register" button.

Figure 72 Employee Registration Interface

- Interface 25
- Employee Search/Delete
- **This is where HR can search and delete Employee**

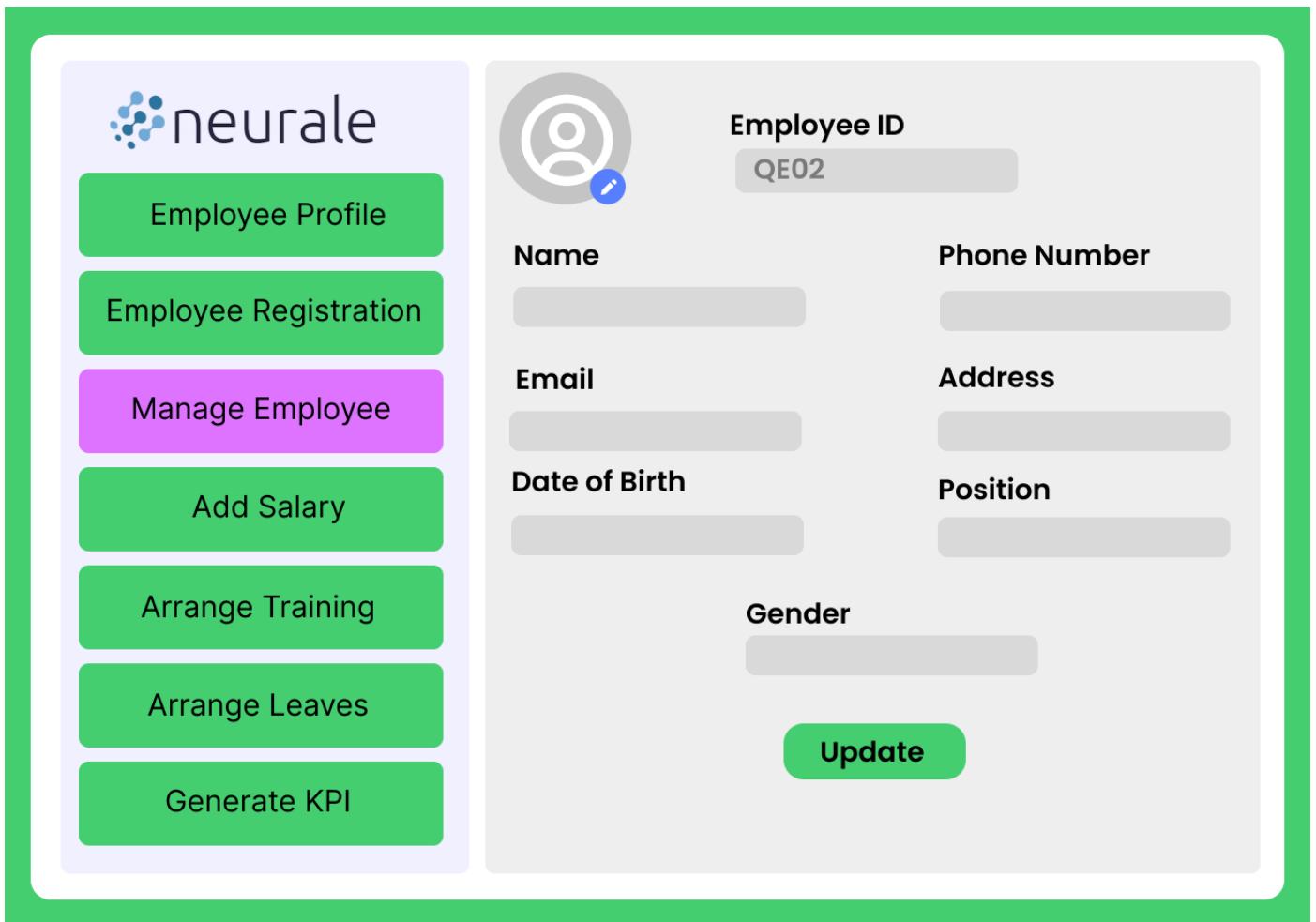


The screenshot shows a mobile application interface for managing employee profiles. On the left, a sidebar menu lists several options: Employee Profile (green button), Employee Registration (green button), Manage Employee (purple button), Add Salary (green button), Arrange Training (green button), Arrange Leaves (green button), and Generate KPI (green button). The main content area displays an employee's profile. At the top right is a search bar with the placeholder "Employee ID" containing "QE02" and a green "Search" button. Below the search bar, the employee's details are listed in pairs: Name (Shehan Malinda) and Phone Number (0776457321); Email (shehan19@gmail.com) and Address (Pannipitiya); Date Of Birth (09-11-1999) and Position (Quality Engineer); and Gender (Male). At the bottom right are two buttons: a green "Update" button and a red "Delete" button.

Employee ID	
QE02	<b>Search</b>
<b>Name</b>	<b>Phone Number</b>
Shehan Malinda	0776457321
<b>Email</b>	<b>Address</b>
shehan19@gmail.com	Pannipitiya
<b>Date Of Birth</b>	<b>Position</b>
09-11-1999	Quality Engineer
<b>Gender</b>	
Male	
<b>Update</b>	<b>Delete</b>

Figure 73 Employee Search & Delete Interface

- Interface 26
- Employee Update
- **This is where HR can Update Employee**



The screenshot shows a mobile application interface for managing employee profiles. On the left, a sidebar menu lists several options: Employee Profile (green), Employee Registration (green), Manage Employee (purple), Add Salary (green), Arrange Training (green), Arrange Leaves (green), and Generate KPI (green). On the right, the main screen displays an employee's profile. At the top, there is a placeholder icon with a blue edit button. Below it, the Employee ID is listed as QE02. The profile details are organized into two columns: Name and Phone Number, Email and Address, Date of Birth and Position, and Gender. Each detail has a corresponding input field. A large green "Update" button is located at the bottom right of the profile area.

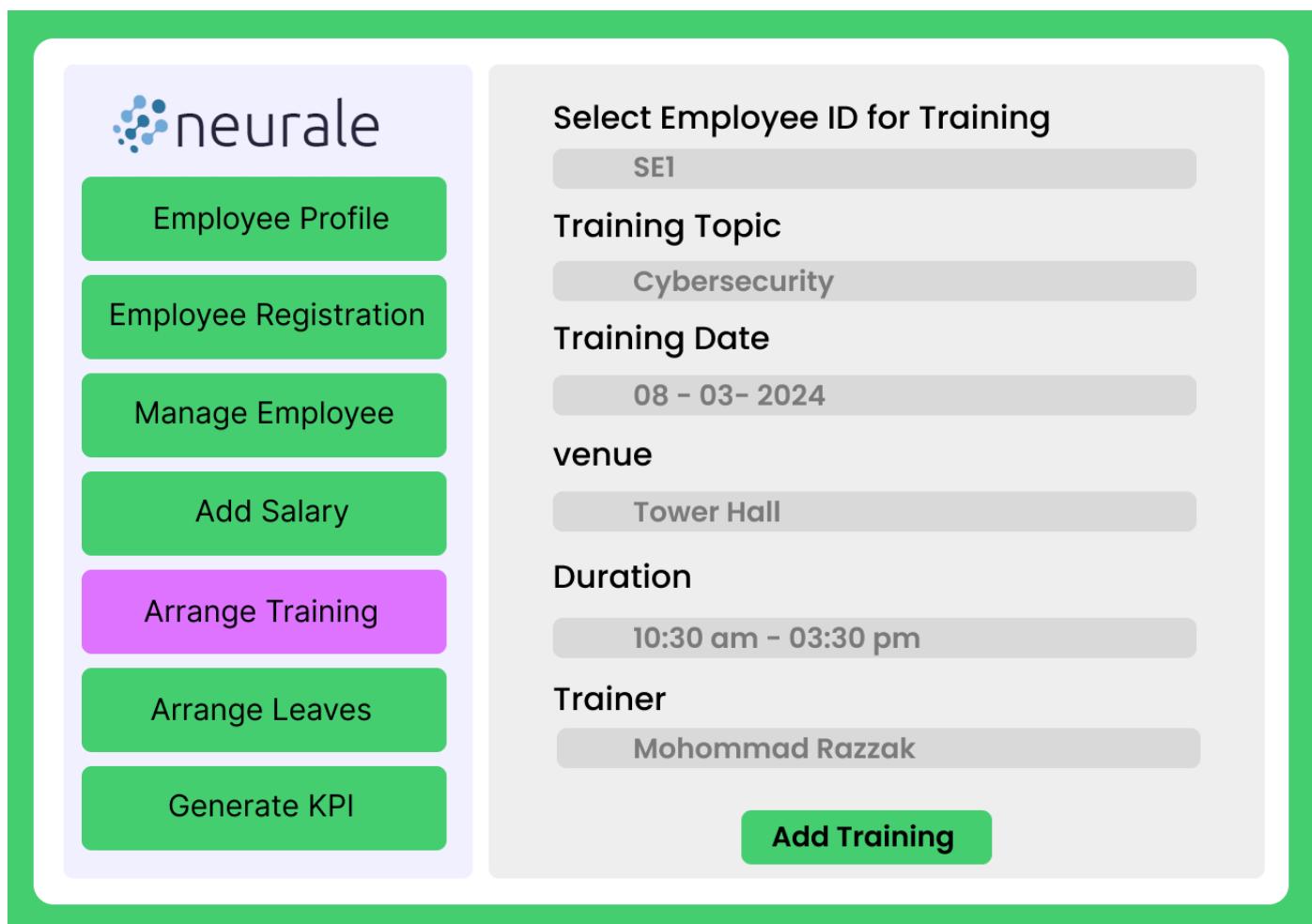
Figure 74 Employee Update Interface

- Interface 27
- Add Salary to Employee
- **This is where HR can Add Salary to Employee**

The screenshot displays the 'neurale' application's 'Add Salary' interface. On the left, a sidebar lists several options: Employee Profile, Employee Registration, Manage Employee, Add Salary (which is highlighted in pink), Arrange Training, Arrange Leaves, and Generate KPI. The main area is titled 'Employee ID' and shows 'QE03' with a 'Select' button. Below this, the 'Salary Details' section includes fields for 'Basic Salary' (with an empty input field), 'EPF (Calculate Based on Salary)' (with an empty input field), 'Bonus/Increment/OT' (with an empty input field and a '+Add' link), 'Deduction' (with an empty input field and a '-Add' link), and 'Loan (Unpaid Loan Amount is : RS 40000)' (with an empty input field). At the bottom is a 'Total Payable Amount' input field and a large green 'Add Salary' button.

Figure 75 Add Salary Interface

- Interface 28
- Arrange Training
- **This is where HR can Arrange Training**



The screenshot displays the 'neurale' software interface. On the left, a sidebar contains seven buttons: 'Employee Profile', 'Employee Registration', 'Manage Employee', 'Add Salary', 'Arrange Training' (which is highlighted in purple), 'Arrange Leaves', and 'Generate KPI'. The main area is titled 'Select Employee ID for Training' and shows the value 'SE1'. Below it, the 'Training Topic' is set to 'Cybersecurity', the 'Training Date' is '08 - 03- 2024', the 'venue' is 'Tower Hall', the 'Duration' is '10:30 am - 03:30 pm', and the 'Trainer' is 'Mohommad Razzak'. At the bottom right of this section is a green button labeled 'Add Training'.

*Figure 76 Arrange Training Interface*

- Interface 29
- Arrange Leaves
- **This is where HR can Arrange Leaves**

The screenshot displays the 'neurale' application interface. On the left, a sidebar lists various functions: Employee Profile, Employee Registration, Manage Employee, Add Salary, Arrange Training, **Arrange Leaves** (highlighted in pink), and Generate KPI. On the right, a detailed view of a leave request is shown. The request is for Jhon Mackanse, dated 27-02-2022, starting on 27-02-2024 and ending on 28-02-2024. The leave type is Full day Leave, and the reason is Doctor Appointment. The status is Approved. A green 'Add' button is visible at the bottom right.

Leave Request Details	
<b>Name:</b> Jhon Mackanse	<b>Status:</b> Approved
<b>Date:</b> 27-02-2022	
<b>Start Date:</b> 27-02-2024	<b>End Date:</b> 28-02-2024
<b>Leave Type:</b> Full day Leave	<b>Remain leave balance:</b> 17
<b>Reason:</b> Doctor Appointment	

Figure 77 Arrange Leaves Interface

- Interface 30
- Generate KPI
- **This is where HR can Generate KPI**

The screenshot shows the 'neurale' software interface. On the left, there is a sidebar with the following buttons:

- Employee Profile
- Employee Registration
- Manage Employee
- Add Salary
- Arrange Training
- Arrange Leaves
- Generate KPI

The main area is titled 'KPI Generation' and contains the following data:

Employee Id	KPI Ranking
WD02	08

Task Completion: 9

KPI Year	Attendance
2023	7

Attendance: 7

KPI Value	Leave
8.0	8

Leave: 8

**Generate KPI score = 9+7+6/3**

**8**

**Generate**

Figure 78 Generate KPI Interface

- Interface 31
- Generate Increment
- **This is where Accountant can generate Increment.**

The screenshot displays the 'neurale' application interface. On the left, a sidebar contains several green buttons with white text: 'Employee Profile', 'Check Loan Eligibility', 'Create Salaries', 'Generate OT', 'Generate Bonus', 'Generate Increment' (which is highlighted in pink), and 'Approve EPF&ETF'. The main area has a light gray background and contains the following fields:

- Employee ID:** A dropdown menu showing 'SE04' with up and down arrows, and a green 'Search' button to its right.
- Leave Balance:** A text input field containing the value '19'.
- Enter Amount or percentage:** A text input field.
- Last increment date:** A text input field.
- Next Increment date:** A text input field.
- Generate:** A green button at the bottom right of the form.

Figure 79 Generate Increment Interface

- Interface 32
- Create Salaries
- **This is where Accountant can create Salary**

The screenshot displays the 'Create Salaries' interface of the neurale application. On the left, a sidebar contains several buttons:

- Employee Profile
- Check Loan Eligibility
- Create Salaries** (highlighted in pink)
- Generate OT
- Generate Bonus
- Generate Increment
- Approve EPF&ETF

The main form is divided into sections:

- Employee ID** and **Employee Name** (with up/down arrows for selection).
- Earnings** section with fields for **Basic Salary**, **Bonus**, **Increment**, and **Over Time**.
- Deductions** section with fields for **EPF (8%)**, **NoPay**, **Loan**, **Stamp Duty**, and **Advances**.
- A large **Create** button at the bottom right.

Figure 80 Create Salaries Interface

- Interface 33
- Generate OT
- **This is where Accountant can generate OT**

The screenshot shows a software interface with a green header bar containing the logo 'neurale'. On the left, there is a vertical sidebar with several buttons:

- Employee Profile
- Check Loan Eligibility
- Create Salaries
- Generate OT** (This button is highlighted in pink)
- Generate Bonus
- Generate Increment
- Approve EPF&ETF

The main panel is titled 'Employee' and contains the following fields:

- Employee:** SE09 (with up/down arrows) and a **Search** button.
- Overtime Rate:**  $(\text{Basic Salary}/25)/8$
- Overtime Hours:** 9
- Total Overtime Amount:** Rs 4,050
- A **Create** button at the bottom right.

Figure 81 Generate OT Interface

- Interface 34
- Generate Bonus
- **This is where Accountant can generate Bonus**

The screenshot shows the neurale software interface. On the left, there is a sidebar with several buttons: 'Employee Profile', 'Check Loan Eligibility', 'Create Salaries', 'Generate OT', 'Generate Bonus' (which is highlighted in pink), 'Generate Increment', and 'Approve EPF&ETF'. The main area is titled 'Employee' and contains fields for 'Basic Salary' (set to 'Rs 130000'), 'KPI Score' (set to '08'), 'Bonus Type' (with placeholder 'Enter Bonus Type'), 'Bonus Date' (with placeholder 'Enter Bonus Date'), 'Bonus Amount' (with placeholder 'Enter Bonus Amount'), and a 'Create' button.

*Figure 82 Generate Bonus Interface*

- Interface 35
- Check Loan Eligibility
- **This is where Accountant can Check Loan Eligibility**

The screenshot displays the 'neurale' software interface. On the left, a sidebar contains several green buttons: 'Employee Profile', 'Check Loan Eligibility' (which is highlighted in pink), 'Create Salaries', 'Generate OT', 'Generate Bonus', 'Generate Increment', and 'Approve EPF&ETF'. The main panel is titled 'Loan Request LR031' and shows the following details:

Employee ID	SE08
Type	Vehicle Loan
Amount	Rs 100000
Loan Request Date	03-02-2024

Below this, under 'Employee Details', there is a search bar containing 'SE08' with up and down arrows, and a 'Search' button. It also lists:

Basic Salary	RS 120000
Hire Date	11-02-2023

Under 'Loan Eligibility', there are two buttons: 'Eligible' and 'Not Eligible'.

Figure 83 Check Loan Eligibility Interface

- Interface 36
- Approve EPF&ETF
- **This is where Accountant can Approve EPF&ETF**

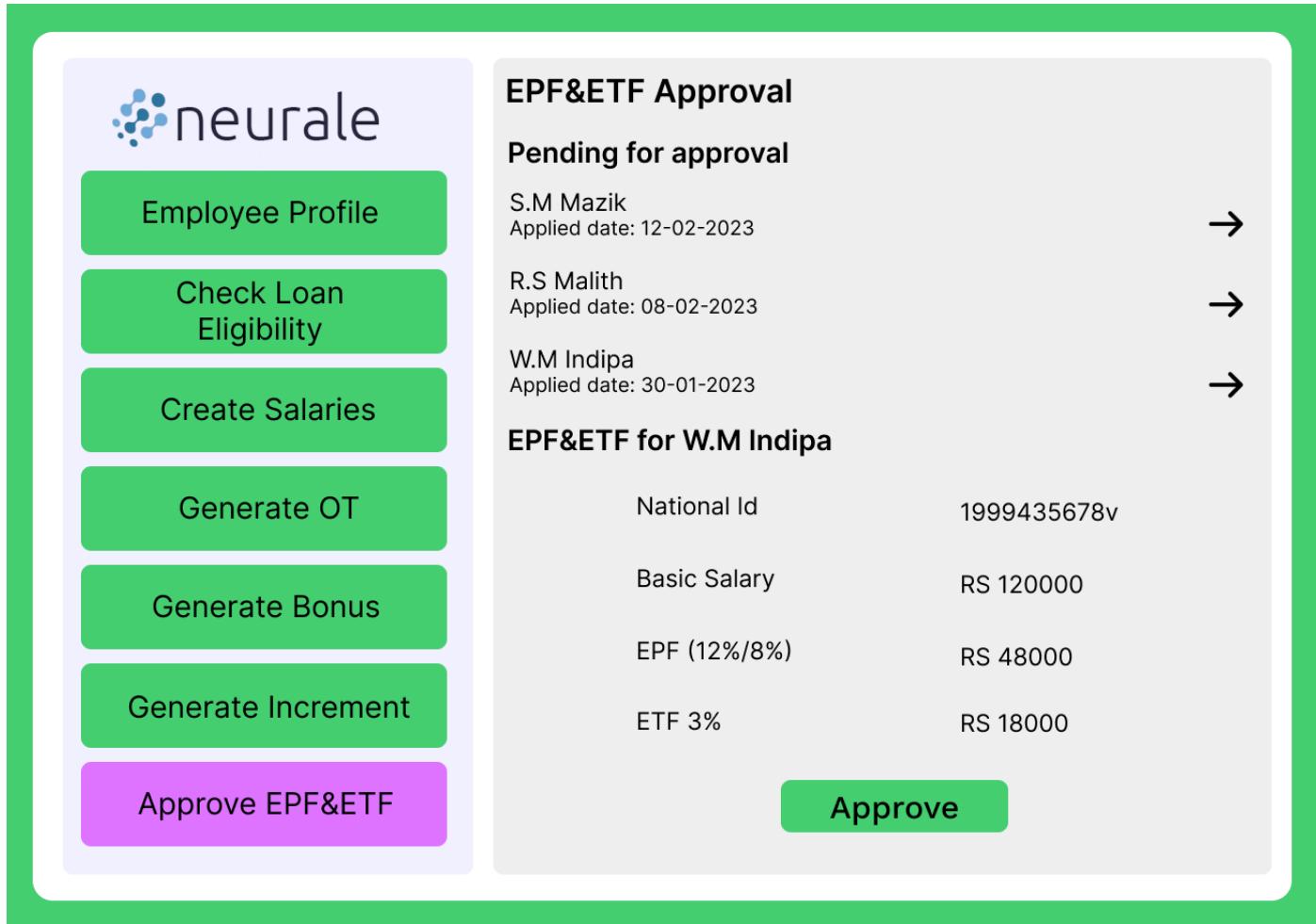


Figure 84 Approve EPF&ETF Interface

- Interface 37
- Check Loan Request
- **This is where Manager can Check Loan Request**

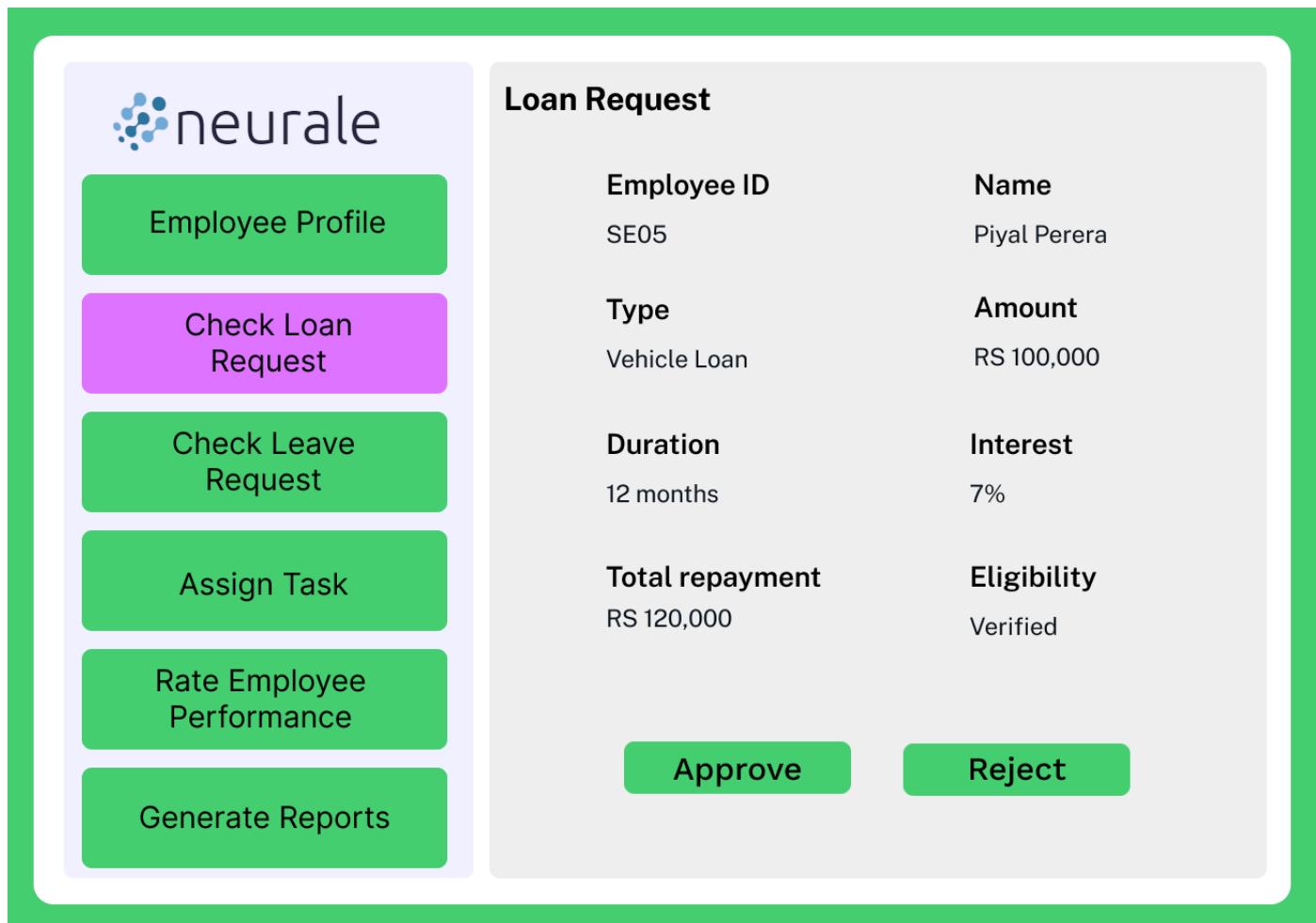


Figure 85 Check Loan Request Interface

- Interface 38
- Check Leave Request
- **This is where Manager can Check Leave Request**

The screenshot shows a mobile application interface for managing employee leave requests. On the left, there's a sidebar with a logo and several buttons: 'Employee Profile' (green), 'Check Loan Request' (green), 'Check Leave Request' (purple), 'Assign Task' (green), 'Rate Employee Performance' (green), and 'Generate Reports' (green). The main content area is titled 'Leave Request' and displays the following information:

<b>Employee ID</b>	<b>Employee Name</b>
SE06	Kavindu Malaka
<b>Leave Type</b>	<b>Duration</b>
Sick Leave	2 Days
<b>Leave From Date</b>	<b>Leave To Date</b>
09-02-2024	11-02-2024
<b>Leave Balance</b>	<b>Total Leave per year</b>
05	21

At the bottom right are two buttons: 'Approve' (green) and 'Reject' (green).

Figure 86 Check Leave Request Interface

- Interface 39
- Assign Task
- **This is where Manager can assign Task**

The screenshot displays the 'Assign Task' interface within the neurale application. On the left, there is a sidebar with several buttons: 'Employee Profile', 'Check Loan Request', 'Check Leave Request', 'Assign Task' (which is highlighted in pink), 'Rate Employee Performance', and 'Generate Reports'. The main area is titled 'Assign Task' and contains the following fields:

- Type:** A dropdown menu labeled 'Select Type' with up and down arrows.
- Start Date:** A text input field labeled 'MM/DD/YYYY'.
- End Date:** A text input field labeled 'MM/DD/YYYY'.
- Deadline:** A text input field labeled 'MM/DD/YYYY'.
- Time:** A text input field labeled '00:00'.
- Description:** A text input field with placeholder text 'Write a description'.
- Employee:** A dropdown menu labeled 'Choose a Employee' with up and down arrows.

A large green 'Assign' button is located at the top right of the main form area.

Figure 87 Assign Task Interface

- Interface 40
- Rate Employee Performance
- **This is where Manager can rate Employee Performance**

**neurale**

Employee Profile

Check Loan Request

Check Leave Request

Assign Task

Rate Employee Performance

Generate Reports

### Performance Rating

**Employee Details**

SE04	Search
------	--------

**KPI Details**

KPI ID	KPI value
KPI#12	8.5
Calculation Date	KPI Year
02-01-2024	2023
KPI Range	KPI Rank
0-10	2

**Comments**

Optional

Cancel      Submit

Figure 88 Rate Employee Performance Interface

- Interface 41
- Generate Reports
- **This is where Manager can Generate Reports**

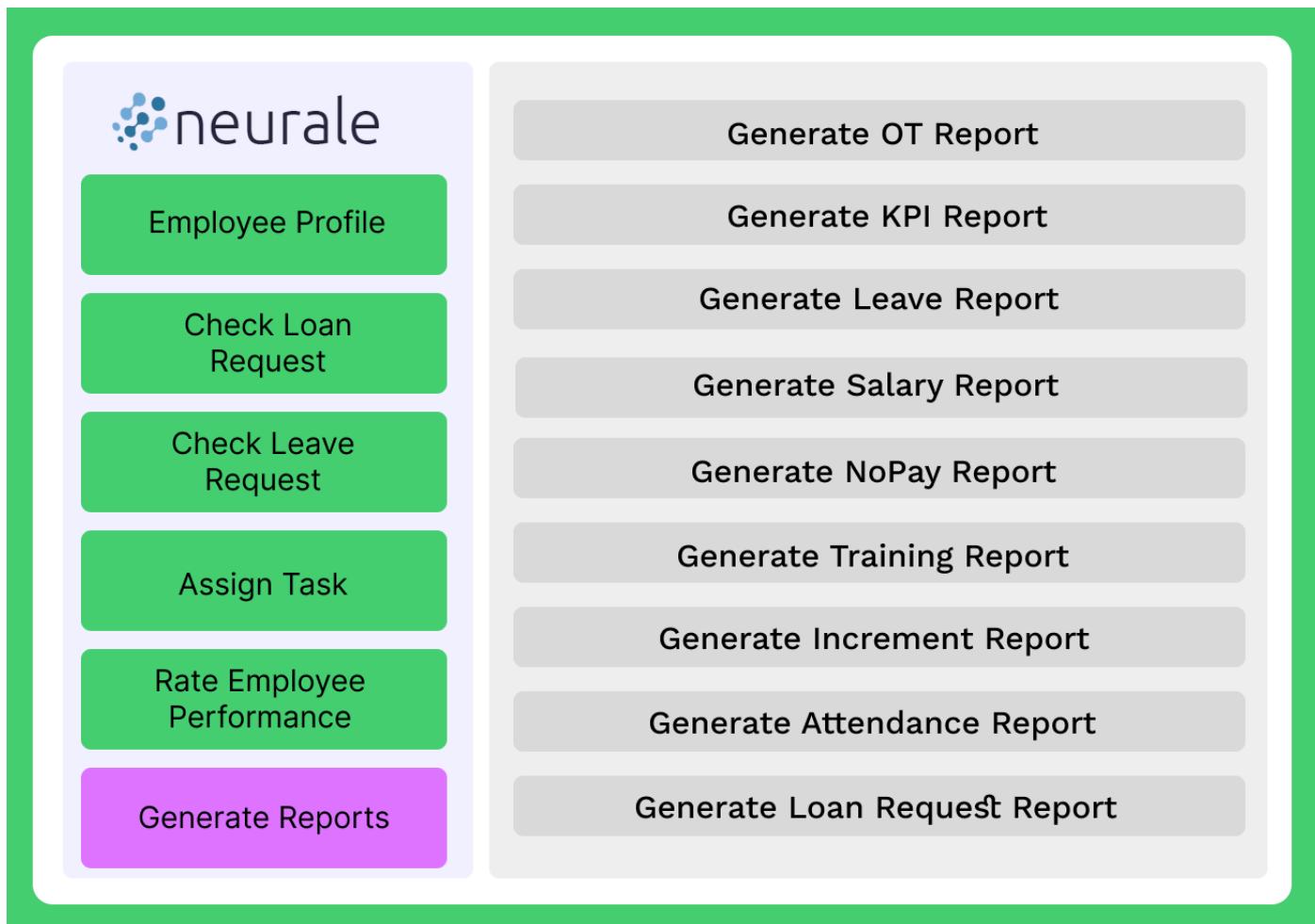


Figure 89 Generate Reports Interface

- Interface 42
- Generate OT Reports
- **This is where Manager can Generate OT Reports**

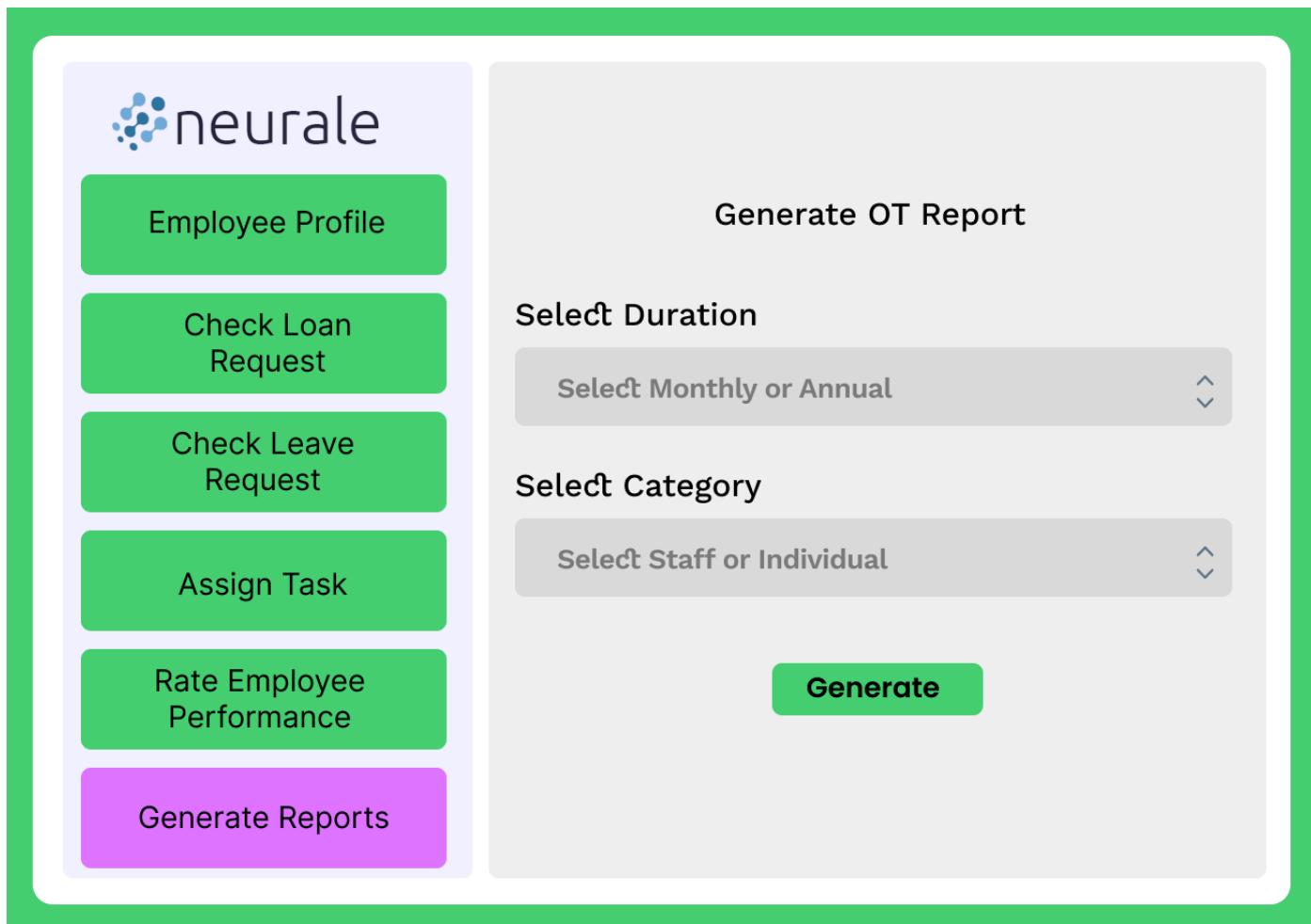


Figure 90 Generate OT Reports Interface

- Interface 43
- Generate KPI Reports
- **This is where Manager can Generate KPI Reports**

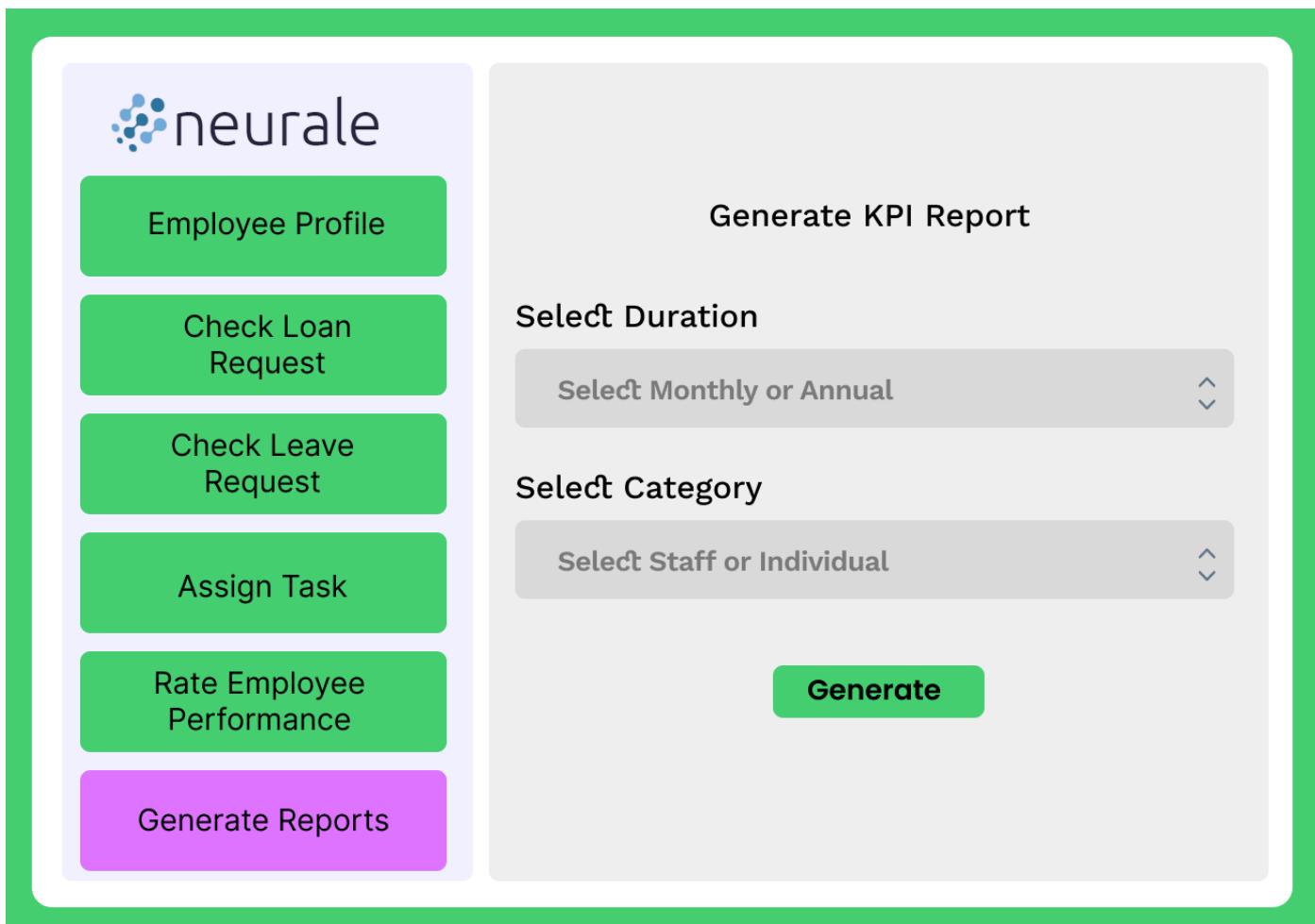


Figure 91 Generate KPI Reports Interface

- Interface 44
- Generate Leave Reports
- **This is where Manager can Generate Leave Reports**

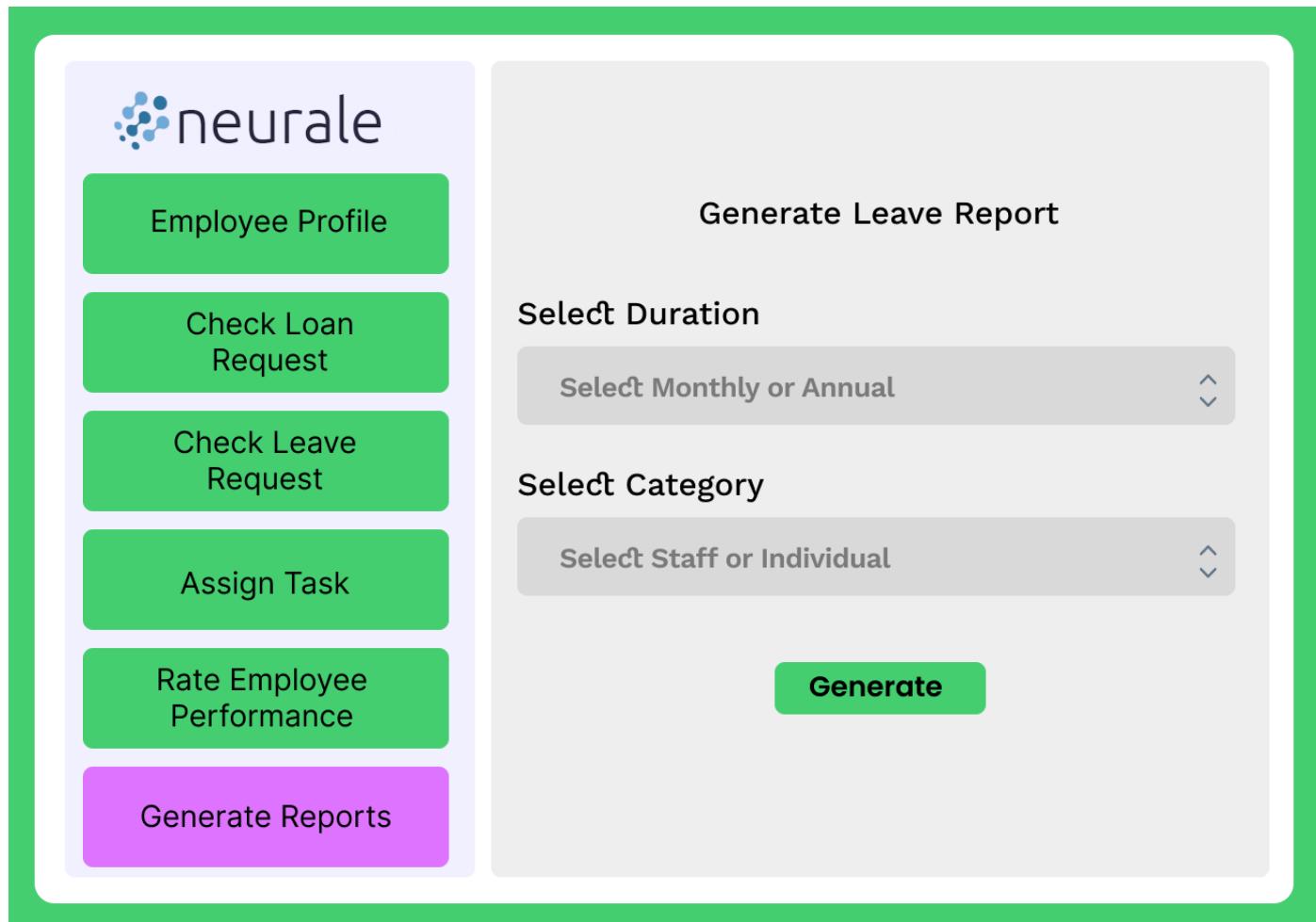


Figure 92 Generate Leave Reports Interface

- Interface 45
- Generate Salary Reports
- **This is where Manager can Generate Salary Reports**

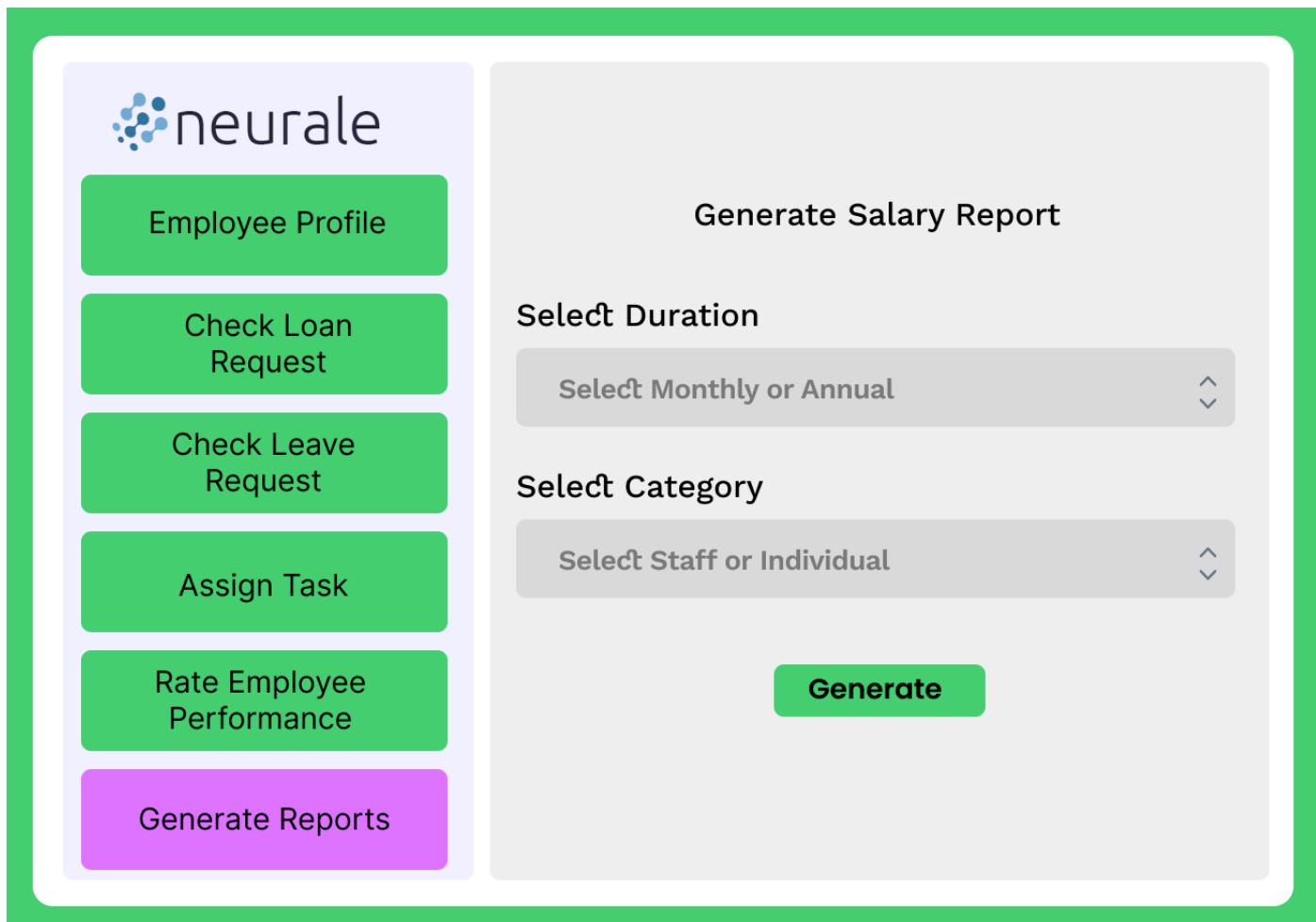


Figure 93 Generate Salary Reports Interface

- Interface 46
- Generate NoPay Reports
- **This is where Manager can Generate NoPay Reports**

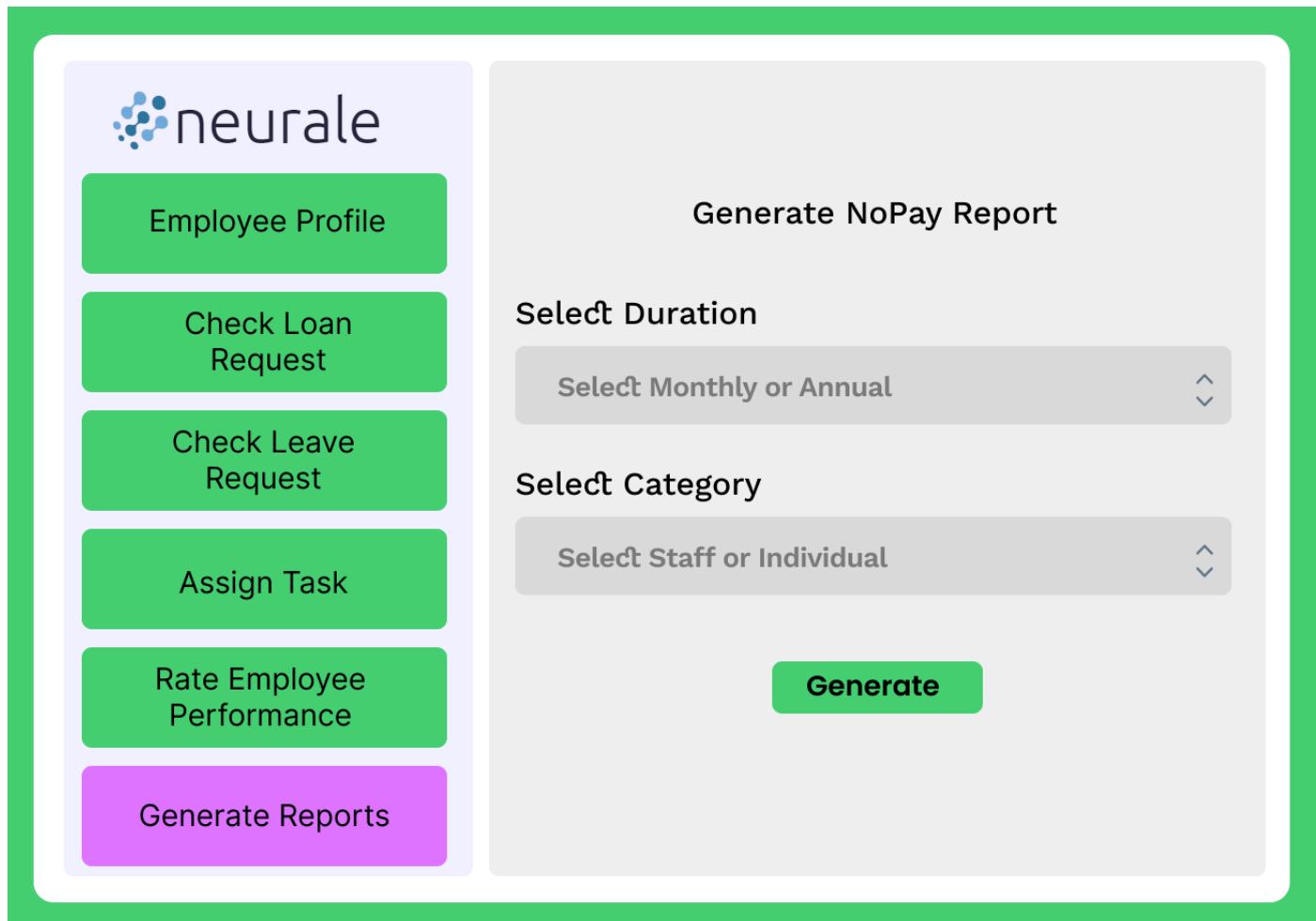


Figure 94 Generate NoPay Reports Interface

- Interface 47
- Generate Increment Reports
- **This is where Manager can Generate Increment Reports**

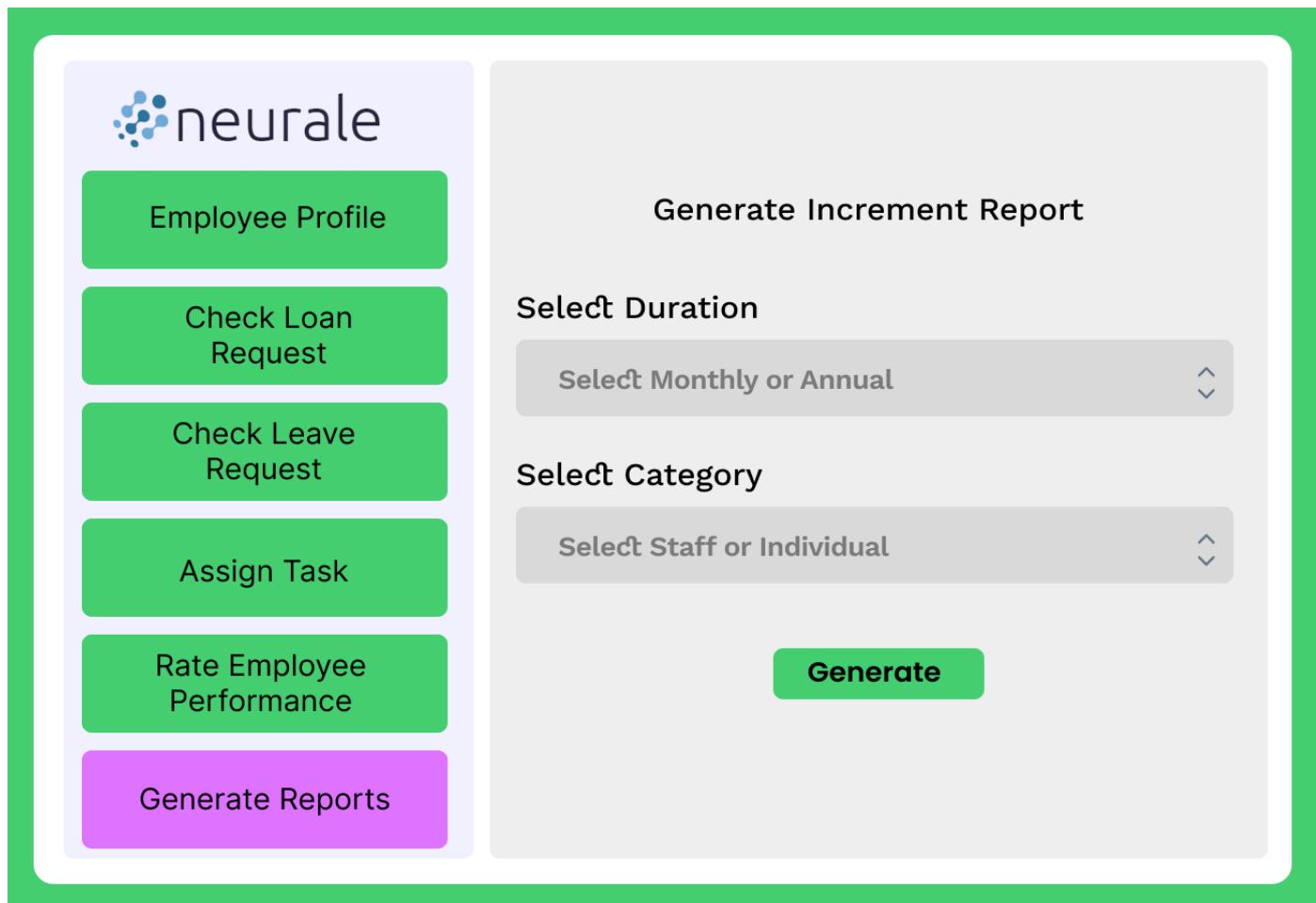


Figure 95 Generate Increment Reports Interface

- Interface 48
- Generate Training Reports
- **This is where Manager can Generate Training Reports**

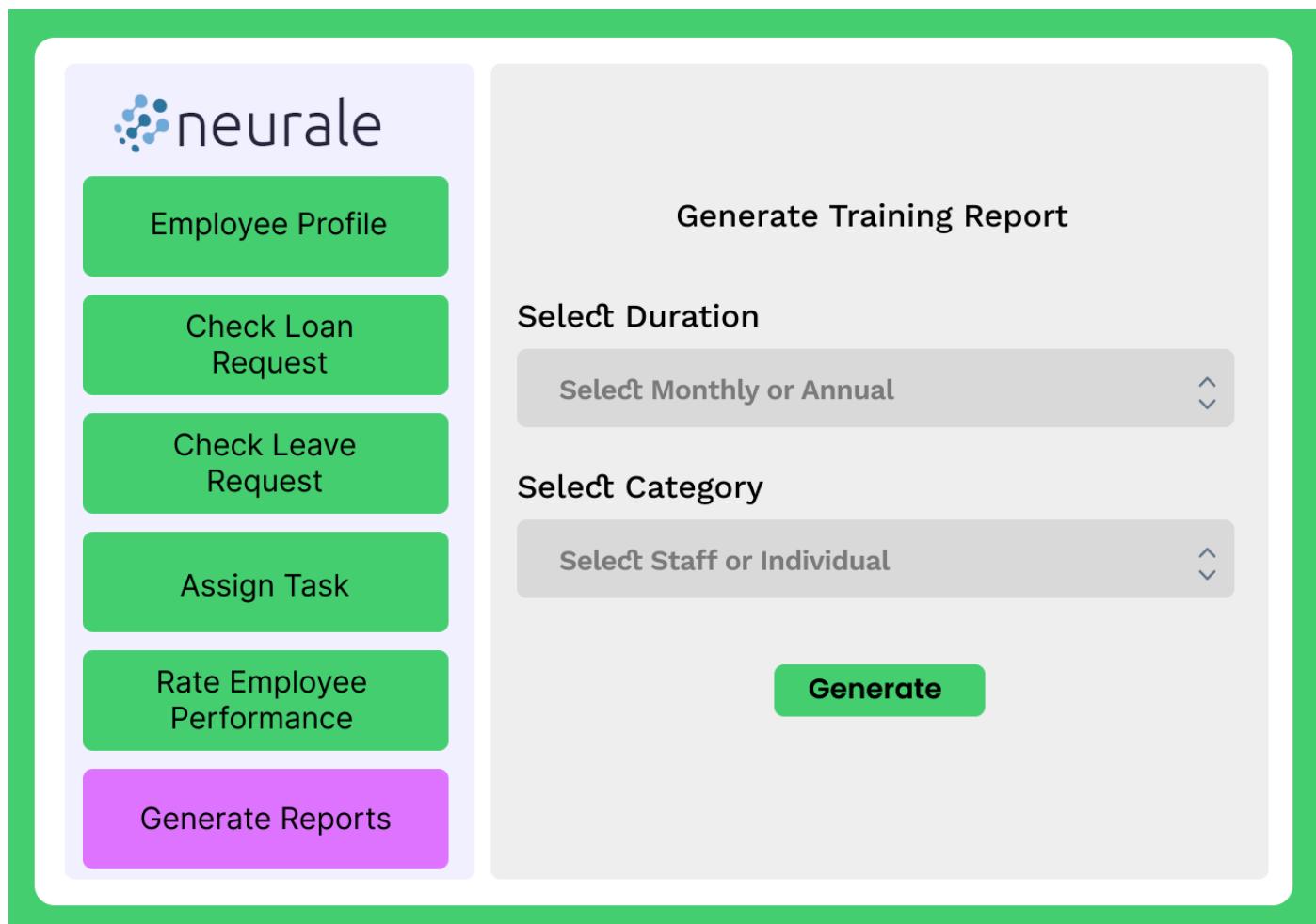


Figure 96 Generate Training Reports Interface

- Interface 49
- Generate Attendance Reports
- **This is where Manager can Generate Attendance Reports**

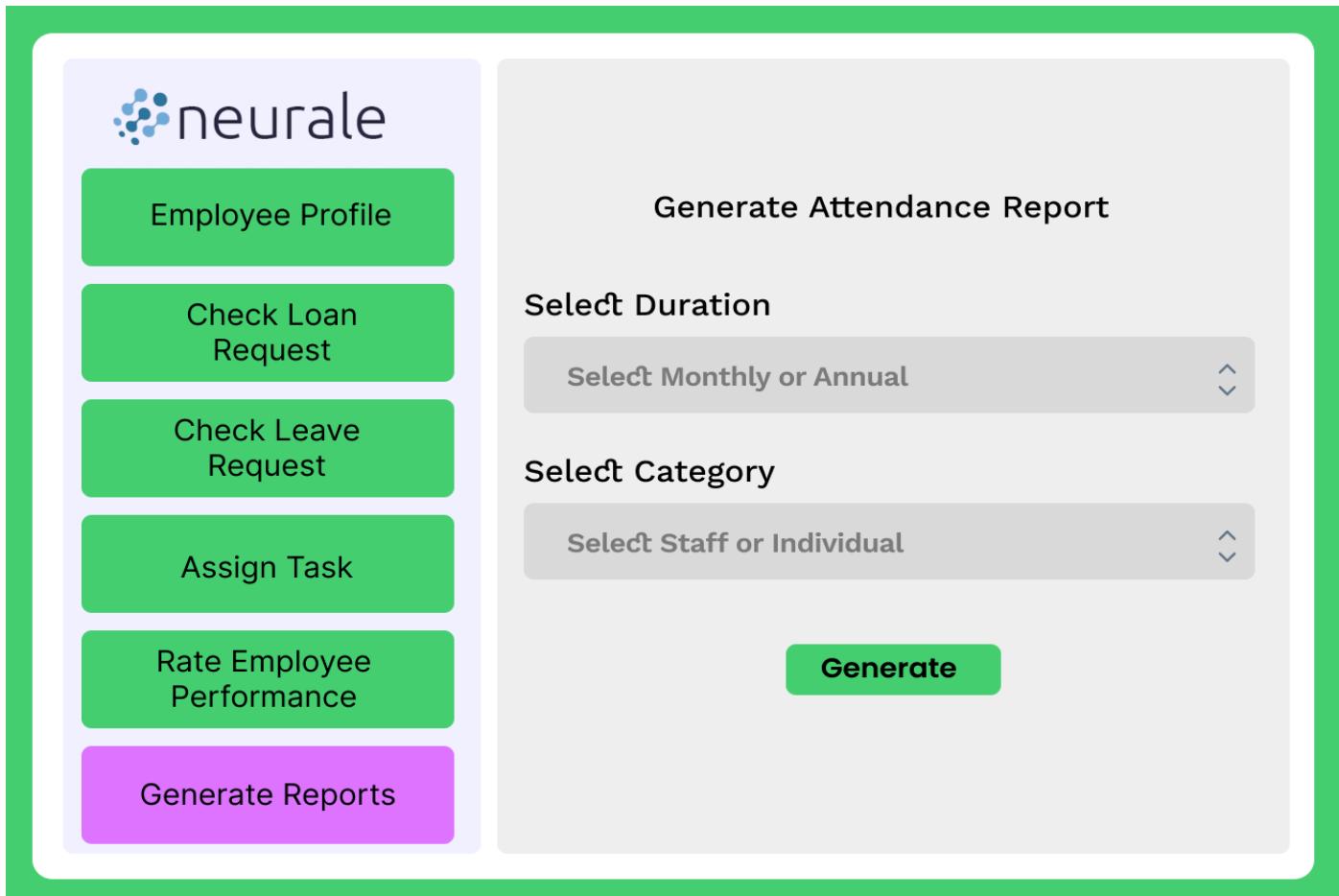
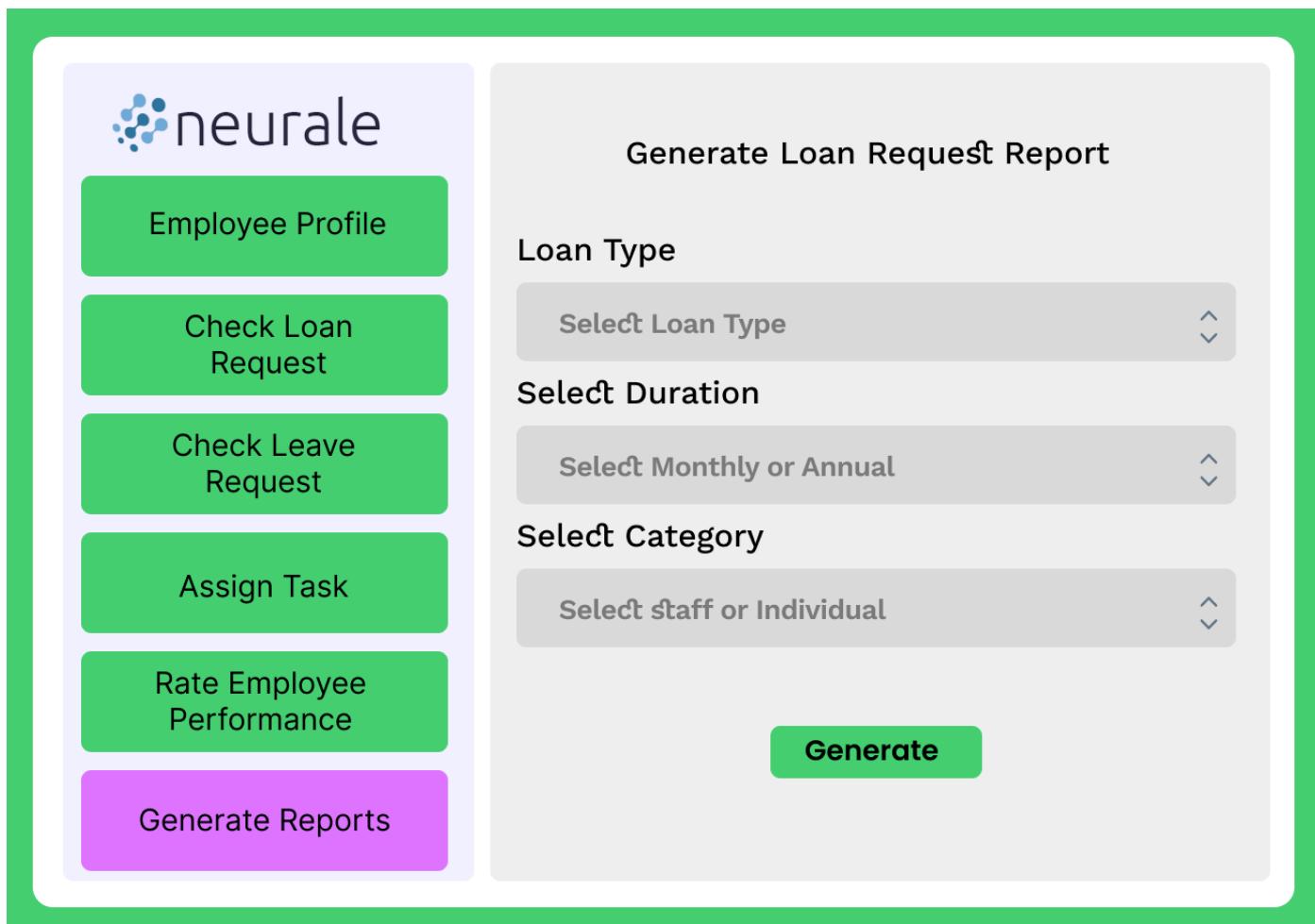


Figure 97 Generate Attendance Reports Interface

- Interface 50
- Generate Loan Request Reports
- **This is where Manager can Generate Loan Request Reports**



*Figure 98 Generate Loan Request Reports Interface*

- Interface 51
- Arrange Meetings
- **This is where Managing Director can arrange Meetings**

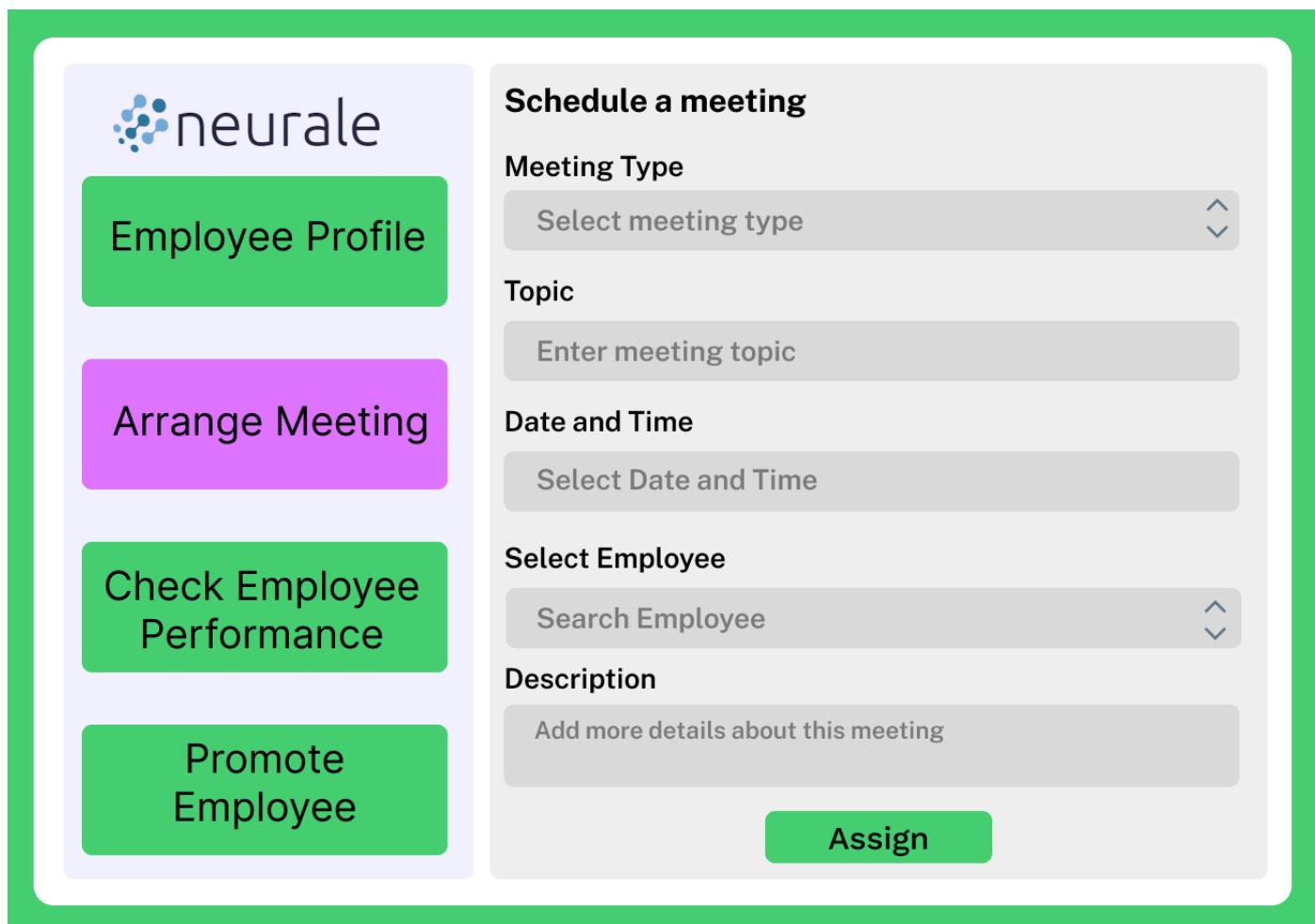


Figure 99 Arrange Meeting Interface

- Interface 52
- Check Employee Performance
- **This is where Managing Director can check Employee Performance**

**KPI Ranges and Changes**

**KPI Year**

2023 Search

Employee ID	Employee Name	Score	Rank
SE04	Saman Perera	10	01
SE08	Asela Nuwan	9.6	02
SE09	M Zihan	9.3	03
SE01	M Farhan	9.0	04
SE11	Kemal Akalanka	8.3	05
SE18	Dushan Salinda	8.0	06
SE02	M Izak	8.0	06
SE05	Nalin Menaka	7.6	07
SE16	Pawan Salinda	7.0	08

Figure 100 Check Employee Performance Interface

- Interface 53
- Promote Employee
- **This is where Managing Director can Promote Employee**

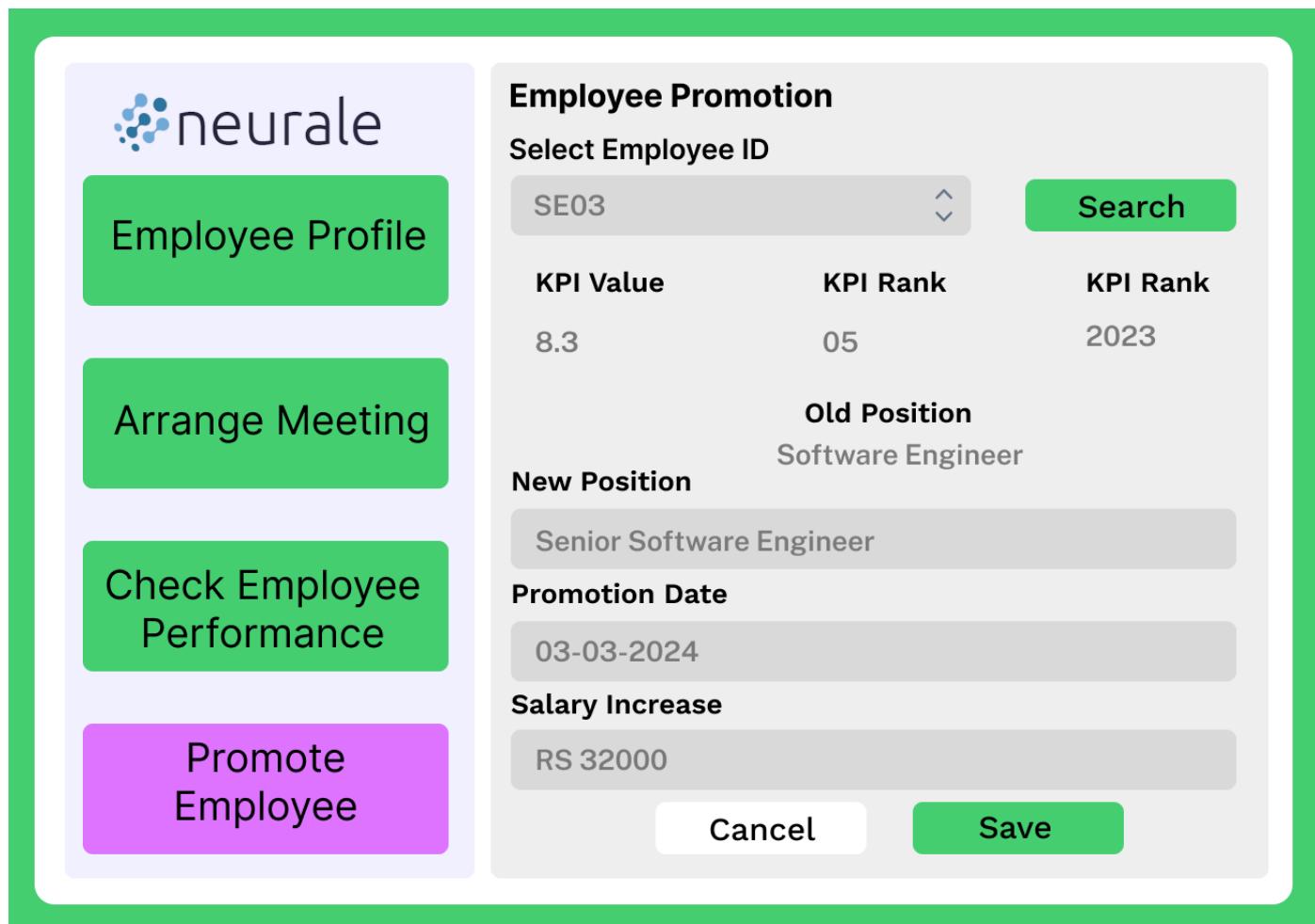


Figure 101 Promote Employee Interface

## 4.3 Database Design

**Table 01 -**

### Employee

Primary Key: EMP\_Id

Foreign Key: -----

Field Name	Data type	Data Size	Description
EMP_Id	Text	12	Employee Identification
EMPName	Text	30	Employee Name
Email	Text	50	Employee email
Gender	Text	8	Employee Gender(male/female)
EMPAAddress	Text	50	Employee Address
Position	Text	15	Employee Position
DOB	date	8	Employee Data of birth
Status	Text	20	Employee Status
Tel_number	Text	10	Employee Telephone number
OThours	Text	10	Employee OT hours
KPIScore	Text	20	Employee KPI Score
ShortLeaveBal	Text	10	Employee Short leave balance
FullDayLeaveBal	Text	10	Employee Full day leave balance
SickLeaveBal	Text	10	Employee sick leave balance
HalfDayleaveBal	Text	10	Employee Half Day leave balance
MaternityLeaveBal	Text	10	Employee Maternity leave balance
<b>Record Size</b>		283	

*Table 1 Employee Table*

## **Table 02 -**

### **Loan Request**

Primary Key: LoanRequest\_Id

Foreign Key: EMP\_Id,LoanTypeId

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
LoanRequest_Id	Text	06	Loan Id
duration	Text	10	Loan Duration
Date	date	08	Loan Request Date
Amount	Text	06	Loan Amount
Interest rate	Text	10	Loan Interest rate
EMP_Id	Text	12	Employee Identification
LoanTypeId	Text	15	Loan Type Identification
<b>Record Size</b>			67

*Table 2 Loan\_Request Table*

### **Table 03 -**

#### **Leave**

Primary Key: Leave\_Id

Foreign Key: EMP\_Id, KPI\_Id, Leave\_TypeId

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
Leave_Id	Number	06	Leave Identification
Leave_Status	Text	06	Leave status
Duration	Text	06	Leave duration
LeaveFromDate	date	10	Leave from date
LeaveToDate	date	10	Leave To date
Leave_Reason	Text	20	Leave Reason
Leave_TypeId	Text	06	Leave Type ID
EMP_Id	Text	12	Employee Identification
KPI_Id	Text	12	KPI Identification
<b>Record Size</b>	88		

*Table 3 Leave Table*

#### **Table 04 -**

##### **Leave Type**

Primary Key: Leave\_TypeId

Foreign Key:

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
Leave_TypeId	Text	06	Leave Type ID
TotLeavePerMonth	Text	12	Total Leave Per month
Leave_type	Text	20	Leave Type
<b>Record Size</b>	38		

*Table 4 Leave Type Table*

## **Table 05 -**

### **Loan Type**

Primary Key: LoanTypeId

Foreign Key:---

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
LoanTypeId	Text	12	Loan Id
LoanType	Text	30	Loan Type
Description	Text	12	Loan Description
<b>Record Size</b>	66		

*Table 5 Loan Type Table*

## **Table 06 -**

### **Employee Task**

Primary Key: EMP\_Id,Task\_ID

Foreign Key: EMP\_Id,Task\_ID

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
Task_ID	Text	10	Task ID
EMP_Id	Text	12	Employee ID
StartDate	date	08	Task Start Date
EndDate	date	08	Task End Date
<b>Record Size</b>		38	

*Table 6 Employee Task Table*

## **Table 07-**

### **Salary**

Primary Key: SalaryId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
SalaryId	Text	06	Salary Id
BasicSalary	Text	06	Basic Salary
SalaryDate	Text	06	Salary Date
OT_Pay	Text	20	OT Payment
Increment_Pay	Text	10	Increment Payment
Bonus_Pay	Text	06	Bonus Payment
TotSalary	Text	10	Total Salary
EMP_Id	Text	12	Employee Id
<b>Record Size</b>	76		

*Table 7 Salary Table*

## **Table 08–**

### **Attendance**

Primary Key: AttendanceId

Foreign Key: EMPId,KPI\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
AttendanceId	Text	10	Attendance ID
Date	date	08	Attendance mark date
InTime	Text	06	Attendance mark In time
OutTime	Text	30	Attendance mark Out Time
Status	Text	10	Attendance Status
EMPId	Text	12	Employee ID
KPI_Id	Text	12	KPI Id
<b>Record Size</b>	88		

*Table 8 Attendance Table*

## **Table 09 -**

### **KPI**

Primary Key: KPI\_Id

Foreign Key : EMP\_Id,KPIRankingId

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
KPI_Id	Text	06	KPI ID
KPIValue	Text	10	KPI Value
CalDate	date	08	KPI Calculation date
KPIYear	Text	10	KPI year
KPIRankingId	Text	12	KPI Ranking ID
EMP_Id	Text	12	Employee Id
<b>Record Size</b>	58		

*Table 9 KPI table*

**Table 10 –**

**KPIRanking**

Primary Key: KPIRankingId

Foreign Key: --

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
Rank_Id	Text	06	Rank Id
KPI_Range	Text	12	KPI Range
KPI_Rank	Text	20	KPI Rank
<b>Record Size</b>	38		

*Table 10 KPIRanking Table*

## Table 11-

### Promotion

Primary Key: PromotionId

Foreign Key: EMP\_Id,KPI\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
PrmotionId	Text	10	Promotion Id
Old_position	Text	20	Employee job position
New_position	Text	20	Employee new job position
PromoDate	date	08	Promotion Date
SalaryIncrease	Text	12	Salary increase by the promotion
EMP_Id	Text	12	Employee Id
KPI_Id	Text	06	KPI Id
<b>Record Size</b>			88

*Table 11 Promotion Table*

## **Table 12 –**

### **Meeting**

Primary Key: Meeting Id

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
MeetingId	Text	12	Meeting Id
Topic	Text	10	Meeting Topic
Date	date	08	Meeting Date
Type	Text	15	Meeting Type
EMP_Id	Text	12	Employee ID
<b>Record Size</b>			57

*Table 12 Meeting Table*

**Table 13 –**

**Training**

Primary Key: TrainingId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
TrainingId	Text	12	Training Id
venue	Text	12	Training venue
Trainer	Text	10	Trainer
Topic	Text	15	Training Topic
Duration	Text	08	Training duration
Date	date	08	Training date
EMP_Id	Text	12	Employee Id
<b>Record Size</b>			77

*Table 13 Training Table*

**Table 14 -****OT**

Primary Key: OTId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
OTId	Text	06	OT Id
OThours	Text	10	How many OT hours to have OT
rate	Text	06	OT rate
Amount	Text	12	OT Amount
EMP_Id	Text	12	Employee ID
<b>Record Size</b>			51

*Table 14 OT Table*

## **Table 15-**

### **Increment**

Primary Key: IncrementId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
IncrementId	Text	06	Increment ID
percentage	Text	10	Increment percentage
LastIncrementDate	Date	08	Last Increment Provided date
NextIncrementDate	Date	08	Next Increment date
Amount	Text	10	Increment Amount
Approval	Text	06	Increment Approval
EMP_Id	Text	12	Employee ID
<b>Record Size</b>	60		

*Table 15 Increment Table*

## **Table 16 -**

### **Bonus**

Primary Key: BonusId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
BonusId	Text	06	Bonus Id
Type	Text	06	Bonus Type
Reason	Text	10	Bonus Reason
BonusDate	date	08	Bonus Date
Amount	Text	12	Bonus Amount
EMP_Id	Text	12	Employee Id
<b>Record Size</b>			54

*Table 16 Bonus Table*

## **Table 17–**

### **NoPay**

Primary Key: NoPayId

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
NoPayId	Text	06	No Pay Id
NoPay Days	Text	10	No Pay days (leaves per year more than 21)
StartDate	date	08	No Pay Starting date
EndDate	date	08	No Pay Ending date
DeductionAmount	Text	10	No Pay Amount
EMP_Id	Text	12	Employee Id
<b>Record Size</b>			54

*Table 17 NoPay Table*

**Table 18-****Task**

Primary Key: TaskId

Foreign Key: EMP\_Id,KPI\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
TaskId	Text	10	Task Id
Type	Text	10	Task Type
Deadline	Text	15	Task Deadline
Description	Text	20	Task Description
EMP_Id	Text	12	Employee ID
KPI_Id	Text	06	KPI ID
<b>Record Size</b>	73		

*Table 18 Task Table*

**Table 19-****EPF&ETF**

Primary Key: EPFETF\_ID

Foreign Key: EMP\_Id

<b>Field Name</b>	<b>Data type</b>	<b>Data Size</b>	<b>Description</b>
EPFETF_ID	Text	08	EPF & ETF ID
Applied_date	Text	06	Product ID
BasicSalary	Text	10	Basic Salary
EPFCalculation	Text	20	EPF Calculation (12%)/(8%)
ETFCalculation	Text	20	ETF Calculation (3%)
EMPIDNumber	Text	12	Employee NIC
EMP_Id	Text	12	Employee Id
<b>Record Size</b>			76

*Table 19 EPF&ETF Table*

**Table 20 –****Employee Training**

Primary Key: EMP\_Id,TrainingId

Foreign Key: EMP\_Id,TrainingId

Field Name	Data type	Data Size	Description
TrainingId	Text	12	Training ID
EMP_Id	Text	12	Employee ID
StartTime	date	08	Training Start Time
EndTime	date	08	Task End Time
<b>Record Size</b>		40	

*Table 20 Employee Training Table*

**Table 21 –****Employee Meeting**

Primary Key: EMP\_Id,MeetingId

Foreign Key: EMP\_Id, MeetingId

Field Name	Data type	Data Size	Description
MeetingId	Text	12	Meeting ID
EMP_Id	Text	12	Employee ID
StartTime	date	08	Meeting Start Time
EndTime	date	08	Meeting End Time
<b>Record Size</b>		40	

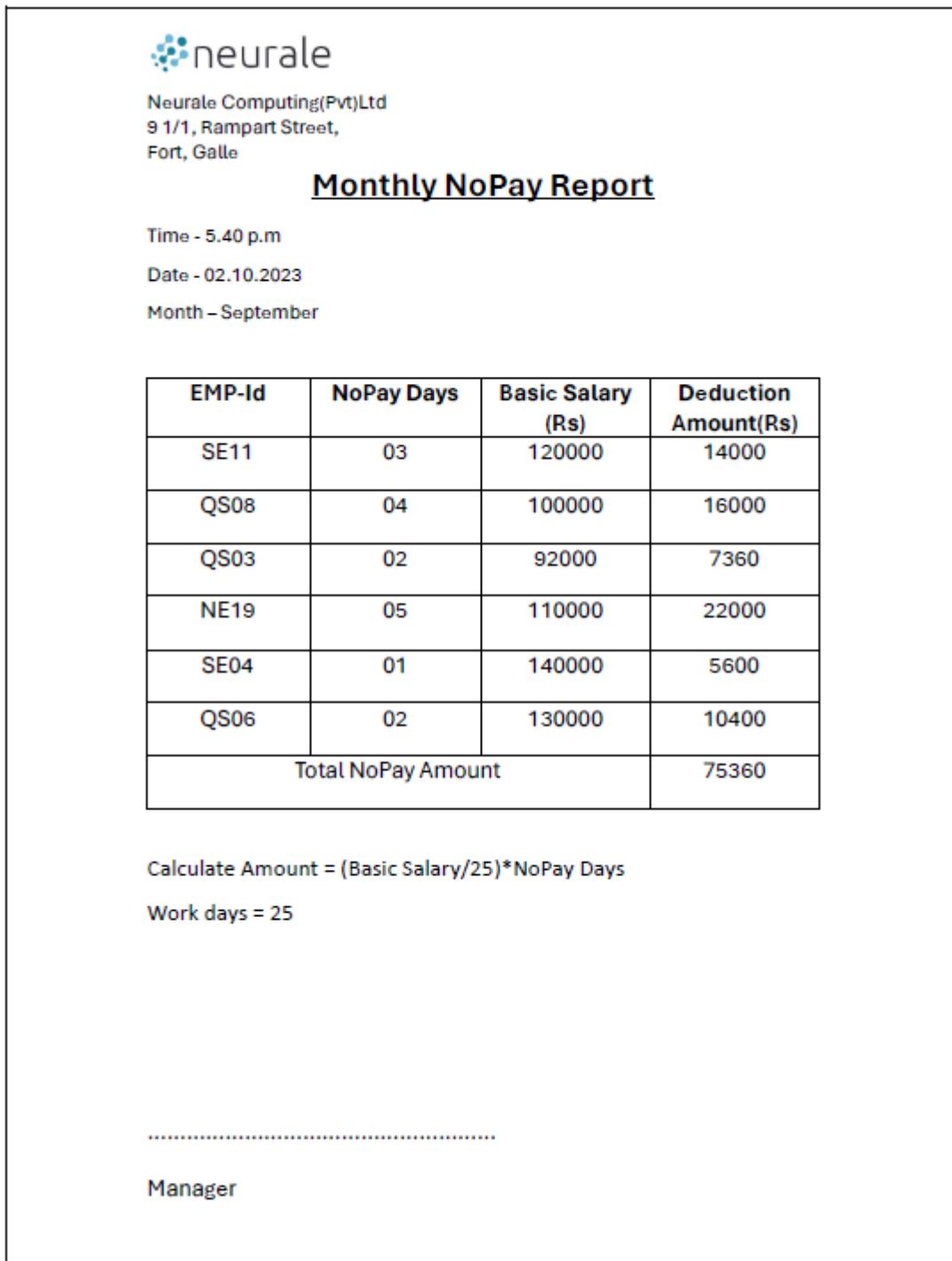
*Table 21 Employee Meeting Table*

## 4.4 Report Layout Design

## **Report No 01**

## **Report Name : Monthly NoPay Report**

**Description :** This Report shows number of Employees gone for Nopay in Month



*Figure 102 Monthly NoPay Report*

## Report No 02

Report Name : Annual NoPay Report

Description : This Report shows number of Employees gone for Nopay in Year

Annual NoPay Report			
NE02	02	110000	8800
QS01	01	85000	3400
NE06	03	91000	10920
QS10	05	100000	20000
SE03	04	104000	16640
SE28	02	115000	9200
QS05	02	125000	10000
SE11	03	100000	12000
QS08	04	92000	14720
QS03	02	110000	8800
NE19	05	140000	28000
SE04	01	130000	5200
QS06	02	130000	10400
NE02	03	128000	15360
SE01	04	105000	16800
NE02	01	92500	3700
Total NoPay Amount			193940

Calculate Amount = (Basic Salary/25)\*NoPay Days  
Work days = 25

.....  
Manager

Figure 103 Annual NoPay Report

## **Report No 03**

**Report Name : Monthly OT Report**

**Description : This Report shows number of Employees done OT in Month**



Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

### **Monthly OT Report**

Time - 5.40 p.m

Date - 02.05.2023

Month – April

EMP-Id	Basic Salary (Rs)	Hours	Rate (Rs)	Amount (Rs)
SE04	80000	03	400	1200
SE01	120000	04	600	2400
QS01	90000	02	450	900
NE12	135000	12	675	8100
NE19	80000	06	400	2400
NE15	140000	02	700	1400
QS03	150000	08	750	6000
	Total OT			22400

Rate = (Basic Salary/25)/8

Work days = 25

.....  
Manager

*Figure 104 Monthly OT Report*

## Report No 04

Report Name : Annual OT Report

Description : This Report shows number of Employees done OT in Year



Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

**Annual OT Report**

Time - 5.40 p.m  
Date - 05.01.2024  
Year - 2023

EMP-Id	Basic Salary (Rs)	Hours (h)	Rate (Rs)	Amount (Rs)
NE01	85000	2	425	850
NE06	89000	5	445	2225
SE04	120000	3	600	1800
QS01	80000	10	400	4000
SE04	120000	3	600	1800
SE01	88000	4	440	1760
QS01	82000	2	410	820
NE12	87000	12	435	5220
NE19	90000	6	450	2700
NE15	89000	2	445	890
QS03	90000	8	450	3600
SE02	112000	2	560	1120
SE28	110000	10	550	5500
QS05	90000	2	450	900
NE15	97000	7	485	3395
NE19	82000	5	410	2050
SE15	100000	5	500	2500
SE09	97000	3	485	1455
QS03	90000	5	450	2250
NE19	90000	6	450	2700
SE04	120000	3	600	1800
QS06	81000	5	405	2025
NE02	87000	3	435	1305
SE01	88000	10	440	4400
NE02	82000	3	410	1230
Total OT				58295

Rate = (Basic Salary/25)/8  
Work days = 25

.....

Manager

Figure 105 Annual OT Report

## Report No 05

Report Name : Annual Increment Report

Description : This Report shows number of Employees got Increment in Year



Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

**Annual Increment Report**

Time - 10.00 a.m      Date - 05.04.2023      Year - 2023

EMP-Id	Basic Salary (Rs)	Full Day Leave Balance	Salary Percentage	Amount (Rs)
NE01	85000	17	5%	4250
NE06	89000	18	5%	4450
SE04	120000	21	6%	7200
QS01	80000	19	5%	4000
SE04	120000	21	6%	7200
SE01	88000	18	5%	4400
QS01	82000	17	5%	4100
NE12	87000	20	5%	4350
NE19	90000	20	5%	4500
NE15	89000	19	5%	4450
QS03	90000	18	5%	4500
SE02	112000	21	6%	6720
SE28	110000	21	6%	6600
QS05	90000	18	5%	4500
NE15	97000	16	5%	4850
NE19	82000	17	5%	4100
SE15	100000	21	6%	6000
SE09	97000	16	5%	4850
QS03	90000	19	5%	4500
NE19	90000	19	5%	4500
SE04	120000	21	6%	7200
QS06	81000	17	5%	4050
NE02	87000	16	5%	4350
SE01	88000	18	5%	4400
NE02	82000	17	5%	4100
Total Increment			124120	

Full Day Leave Balance More than 15 have 5% percentage from their salary as Increment.

Full Day Leave Balance equal to 21 have 6% percentage from their salary as Increment

.....

Manager

Figure 106 Annual Increment Report

## Report No 06

### Report Name : Annual KPI Report

Description : This Report show Employee KPI changes over in Year

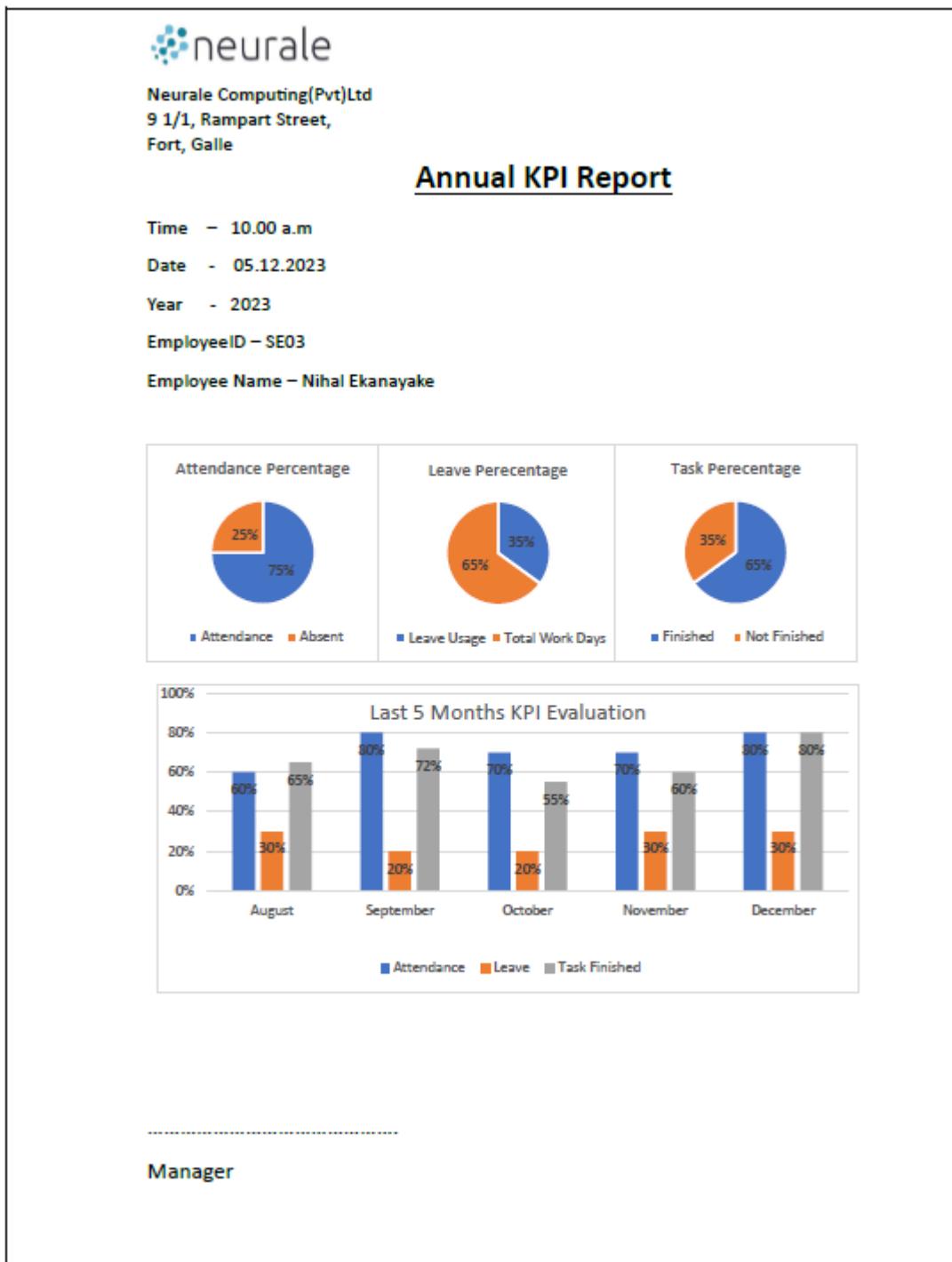


Figure 107 Annual KPI Report

## **Report No 07**

**Report Name : Annual Loan Request Report**

**Description : This Report show Employees Loan Requests in Year**



Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

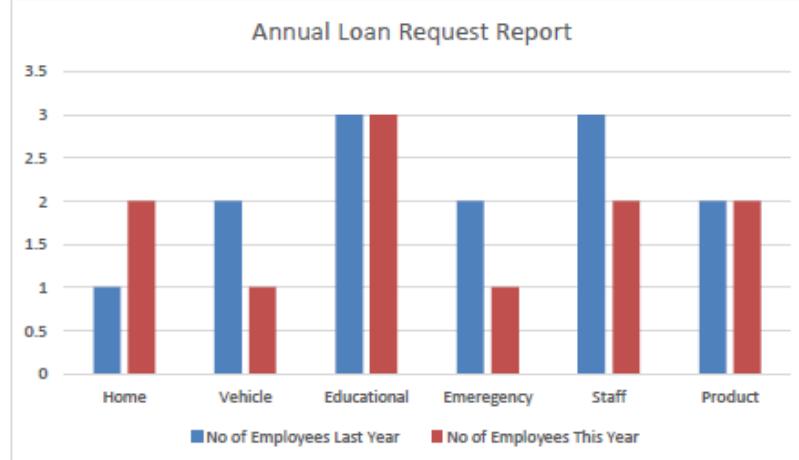
### **Annual Loan Request Report**

Time - 5.40 p.m

Date - 05.01.2024

Year – 2023

Employee ID	Employee Name	Loan Type	Duration (Years)	Approval	Amount (LKR)
SE04	S.A.Janith	Home	2	Yes	150000
SE09	B.W.Amal	Vehicle	3	No	132000
SE11	I.A.Nimali	Educational	4	Yes	25000
SE21	W.M.Amila	Emergency	2	Yes	23000
SE23	C.A.Shamil	Staff	1	No	45000
SE28	S.S.Weerakkody	Product	1	Yes	50000
QS03	P.K.Asith	Vehicle	3	No	22500
QS08	H.A.Vimal	Educational	2	Yes	30000
NE09	N.M.Amara	Home	4	Yes	175000
NE12	D.T.Maalaka	Educational	4	Yes	120000
NE15	S.D.Lakith	Product	2	No	22000
NE19	I.S.Pubudu	Staff	1	Yes	13000



Manager

*Figure 108 Annual Loan Request Report*

## Report No 08

Report Name : Monthly Attendance Report

Description : This Report show Employee Attendance over the month

 **neurale**  
Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

**Monthly Attendance Report**

Time - 5.40 p.m

Date - 05.08.2023

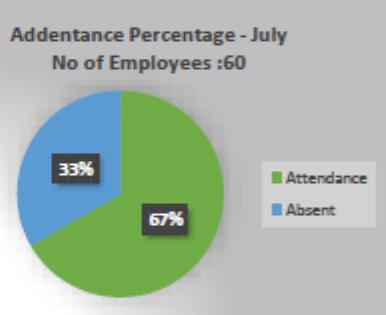
Month – July

EmployeeID – NE02

Employee Name – M Maseed

Date	Status
1/7/2023	Present
3/7/2023	Present
4/7/2023	Present
5/7/2023	Present
6/7/2023	Present
7/7/2023	Present
8/7/2023	Absent
10/7/2023	Present
11/7/2023	Present
12/7/2023	Present
13/7/2023	Present
14/7/2023	Present
15/07/2023	Present
17/07/2023	Present
18/07/2023	Present
22/07/2023	Present
24/07/2023	Absent
25/07/2023	Absent
26/07/2023	Present
27/07/2023	Present
28/07/2023	Present

Addentance Percentage - July  
No of Employees :60



A pie chart titled "Addentance Percentage - July" showing the distribution of employee attendance. The chart is divided into two segments: a green segment representing "Attendance" at 67% and a blue segment representing "Absent" at 33%. The chart is set against a light gray background with a legend indicating the colors for each category.

Category	Percentage
Attendance	67%
Absent	33%

---

Manager

Figure 109 Monthly Attendance Report

## Report No 09

Report Name : Monthly Salary Report

Description : This Report show Employee Salary Details

Annual Salary Report					
Employee ID	Employee Name	Basic Salary (Rs)	Earnings (Rs)	Deduction (Rs)	TotalSalary (Rs)
SE01	A. M Saheen	120000	2800	9600	113200
SE02	P.K Thenuja	110000	11800	8800	113000
SE03	B.A Kumari	100000	10000	8000	102000
SE04	I.A Kusum	130000	13000	9800	133200
SE05	M Aseef	90000	12400	6800	95600
SE02	M Rizaak	120000	13200	8600	124600
SE09	S.M Marikkar	135000	1800	10200	126600
SE10	S Vishwa	90000	11900	7200	94700
QS01	K.A Ridma	95000	26000	14600	93000
QS02	J.S Amila	85000	13600	6400	92200
QS03	R.K Thusitha	140000	13000	10600	142400
QS04	M Firaz	120000	15600	9600	126000
QS05	S.D Niwan	98000	0	7400	90600
QS06	N.M Perera	85000	12300	6300	91000
QS07	N.S Athukorela	82000	12200	14000	80200
QS08	A.P Aranayaka	100000	11100	8000	103100
QS09	M Mujahid	93000	0	7440	85600
QS10	J.K Nipul	100000	11000	8000	103000
WD01	V.T Shehan	125000	14000	10000	129000
WD02	L.L Lalith	110000	15000	9800	115200
WD03	W.M Sujewwa	105000	0	9700	95300
WD04	W.S.Malaka	90000	13100	16500	86600
WD05	M Naveed	82000	12500	8500	86000
WD06	S.G Ruwan	98000	13200	9200	102000
WD07	K.M Niwan	145000	0	11600	133400

Figure 110 Annual Salary Report

## **Report No 10**

**Report Name : Annual Training Report**

**Description : This Report show Employee Trainings happened in year**



Neurale Computing(Pvt)Ltd  
9 1/1, Rampart Street,  
Fort, Galle

### **Annual Training Report**

Time - 5.40 p.m

Date - 30.12.2023

Year – 2023

Employee ID	Trainer	Topic	Date
SE01	M Farzan	Data Manipulation	22-02-2023
SE03	Lalith Kumara	Cloud Computing	18-03-2023
SE05	M Shiham	Artificial Intelligence	28-03-2023
SE07	M Sikat	IOT	03-04-2023
SE08	Nalin Perera	Edge Computing	29-04-2023
SE09	Kamal Ekanayake	Mobile App Developing	12-05-2023
QS01	Nihal Perera	Computational Science	08-06-2023
QS02	M Saahik	IT Security	03-08-2023
QS03	M Vizak	Mobile Security	29-08-2023
QS04	Nilambaram	Blockchain	04-10-2023
WD01	Karman Akmal	Data Analysis	05-11-2023
WD02	M Shaahid	Cybersecurity	16-12-2023

.....  
Manager

*Figure 111 Annual Training Report*

## **Report No 11**

### **Report Name : Annual Leave Report**

**Description : This Report show Employees got leaves in year**



Neurale Computing(Pvt)Ltd

9 1/1, Rampart Street,

Fort, Galle

### **Annual Leave Report**

Time – 10.00 a.m

Date - 05.01.2024

Year - 2023

<b>EMP- Id</b>	<b>Employee Name</b>	<b>Total Attendance</b>	<b>Total OT hours</b>	<b>Total leaves</b>
NE01	Frank Perera	280	34	05
NE06	Peter de Silva	240	12	20
SE04	Amaya Gunathilaka	278	2	08
QS01	Nuwan Perera	260	12	12
SE04	Anne Dalpadadu	258	23	14
SE01	Mihiran Ranasinghe	238	40	15
QS01	Kamal Gunarathne	240	12	20
NE12	Nikkol Gunaseelan	234	10	21
NE19	Praba Vithana	230	34	23
NE15	M.D.Gunathilaka	270	40	12
QS03	K.A.Nuwan	244	12	14
SE02	T. Thennakoon	276	3	02
SE28	Nimal Gunasekara	264	4	10
QS05	Tiyasha Fernando	230	-	24
NE15	Peter Fernando	254	34	15
NE19	Amali Silva	270	23	06
SE15	K.A. Somapala	234	5	20
SE09	Nissanka Silva	300	-	01
QS03	Zusan Frank	270	4	05
NE19	Dual Fathima	248	12	19
SE04	Milan Zoysa	267	5	06
QS06	Solaman Dam	268	60	02
NE02	Matheesha de Silva	272	12	08
SE01	P. Pussalla	285	3	04
NE02	T.Nimal Peter	271	34	07

.....  
Manager

*Figure 112 Annual Leave Report*

## **Report No 12**

**Report Name : Monthly Leave Report**

**Description : This Report show Employees got leaves in Month**



Neurale Computing(Pvt)Ltd

9 1/1, Rampart Street,

Fort, Galle

### **Monthly Leave Report**

Time - 5.40 p.m

Date - 02.12.2023

Month – November

Employee ID	Leave Type	Leave Date	Duration	Approval
SE08	Sick	08-11-2023	2d	Yes
SE13	Sick	05-11-2023	3d	No
SE01	Full Day	10-11-2023	1d	Yes
SE05	Short Leave	08-11-2023	3 h	Yes
SE06	Sick	12-11-2023	1d	No
SE28	Full Day	04-11-2023	1d	Yes
QS03	Short Leave	15-11-2023	3h	No
QS08	Sick	11-11-2023	2d	Yes
NE09	Half Day	16-11-2023	4h	Yes
NE10	Full Day	10-11-2023	1d	Yes
NE15	Sick	20-11-2023	2d	No
NE11	Short Leave	18-11-2023	3h	Yes
TL01	Sick	21-11-2023	2d	yes
TL03	Maternity	11-11-2023	15	yes
SE06	Full Day	19-11-2023	1d	yes
SE02	Short Leave	18-11-2023	3h	No
SE09	Sick	09-11-2023	3d	yes
SE14	Half Day	06-11-2023	4h	No
QS05	Sick	24-11-2023	1d	No
QS13	Full Day	20-11-2023	1d	yes
QS07	Sick	22-11-2023	1d	yes

Day = d

Hours = h

Short Leaves per Month = 02

Total Leaves per Year = 21

.....  
Manager

*Figure 113 Monthly Leave Report*

## **Chapter 5: Conclusion**

We would like to express my sincere appreciation to all individuals and teams who contributed to the development of the Employee Management System (EMS) for Neurale Computing PVT(LTD).

Firstly, we extend our special thanks for the Human Resource Department for providing us with the required tools and information in order to make this project a success. Their practical knowledge made sure that the systems met the real-world needs of the organization.

We are grateful to have an astonishing senior management team who aided with their strategic vision and utmost support which have been a key factor to the completion of this project. Furthermore, I would like to thank all the other departments and individuals who played a huge role directly or indirectly in the success of this endeavor. This project would not have been possible without the collaboration and support of all the individuals within the firm.

Thank you.

## 5.1 References

Tutorialspoint: Comprehensive tutorials on various technologies.

- Windows Forms Tutorial
- WPF Tutorial
- JavaFX Tutorial
- Tkinter Tutorial
- Electron Tutorial

GeeksforGeeks: Articles and tutorials on system design, databases, and software development.

- Employee Management System in C#
- JavaFX Tutorials

Coursera: Online courses on software development, system design, and project management.

- Software Engineering: Principles and Practice
- Programming with Python

GitHub: Explore open-source projects and repositories for various EMS implementations.

- GitHub Search for Employee Management Systems

Stack Overflow: A community-driven Q&A site for solutions to specific problems and advice.

- Stack Overflow

Draw.io: Free online diagramming tool for creating flowcharts, process diagrams, and more.

- <https://www.draw.io/>
- Draw.io Documentation

Figma: Interface design tool for teams.

- <https://www.youtube.com/watch?v=Y8zMAYaD1bz0>
- Official Figma Documentation

## 5.2 Appendices

**NEURALE COMPUTING PVT LTD**

Neurale Computing (Pvt) Ltd  
9 1/1, Rampart Street, Fort, Galle

National Institute Of Business Management,  
120/5 Vidya Mawatha,  
Colombo 007.

TO WHOM IT MAY CONCERN,

Granting permissions to work on your final project at our company

(Index No:codse22.3f-074/codse22.3f-135/ codse22.3f-110/ codse22.3f-054)

I hereby give permission for you to work on your final project with our company based on our discussion. We are hopeful that through investigating our company's management system, you will be able to successfully complete the project and help us improve our operations, streamline our products, and improve employee satisfaction.

We are pleased to collaborate with you on this interesting development. Please feel free to reach out to us.

Name	Index No	ID Number
W.M.I.A.Gangoda	CODSE22.3F-074	200234301012
N.S.Athukorela	CODSE22.3F-135	200252200710
P.G.N.G.Ranaweera	CODSE22.3F-110	200228401691
S.M.Mujahid	CODSE22.3F-054	200009700889

Sincerely,



M.I.M. Ilthizam  
Director

NEURALE COMPUTING  
(PRIVATE) LIMITED - PV 00245384  
NO. 9 1/1, RAMPART STREET,  
FORT, GALLE.

  
Address: 9 1/1 Rampart Street, Fort, Galle, Sri Lanka.  
Website: [www.neurale.io](http://www.neurale.io)  
Email: [contact@neurale.io](mailto:contact@neurale.io)

Figure 114 Letter issued by Organization

## **Meeting Minutes**

Minute of the meeting: Visiting for observation at company

Date: 2023/12/29

Time: 9.30 A.M.

Venue: Neurale Computing PVT LTD

Chaired By: Manager

List of Participants: codse223f-074/110/054

Minute of the meeting: Online Zoom Meeting for loan process

Date: 2024/01/08

Time: 2.30 P.M.

Venue: Neurale Computing PVT LTD

Chaired By: Manager

List of Participants: codse223f-074/110/054

Minute of the meeting: Online Zoom Meeting for report generation

Date: 2024/01/27

Time: 10.30 P.M.

Venue: Neurale Computing PVT LTD

Chaired By: Manager

List of Participants: codse223f-074/110/054

## Log Sheet

Log Form

Date	Supervisor Comments	Indexes of Students (participated for each meeting)	Supervisor Signature
5/01/24	Study processes deeply. improve user interface.	223-74 -135 -54	X
22/01/24	Improve user interface. Class diagram should be more clear.	223-74 -135 -54	X
05/02/24	class diagram does not have appropriate class elements. Improve system dynamics.	223-74 -135 -54	X
17/02/24	Improve classes with missing attributes. table designs	223-74 -135 -54	X

Log Form

Date	Supervisor Comments	Indexes of Students (participated for each meeting)	Supervisor Signature
27/02/24	Bringing YTS & report	54 / 135	X
05/03/24	Improve Report Outputs	54 / 135 -	X
13/03/24	Improve report format. check all clearys.	54 / 135 -	X

Figure 115 Log sheet