

Business Management System

For “Kitchen & Bedroom

(Private) Limited”

Diploma in Software Engineering

Final Project Proposal

23.3F

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Title of the Project: Business Management System For “Kitchen & Bedroom
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Date:/...../2023

“The project is submitted in partial fulfilment of the requirement of the Diploma of Computer System Design of National Institute of Business Management.”

DECLARATION

“I certify that this project does not incorporate without acknowledgement, any material previously submitted for a Diploma in any institution and to the best of my knowledge and belief, it does not contain any material previously published or written by another person or myself except where due reference is made in the text. I also hereby give consent for my project report, if accepted, to be made available for photocopying and for interlibrary loans, and for the title and summary to be made available to outside organizations”

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Date of Submission: 13th October 2024

Preamble

Abstract

A Business Management System for “Kitchen & Bedroom (Private) Limited” has been developed to overcome daily struggles what the organization day to day face. The system facilitates to perform and record major activities related to management process of the organization including following sections such as staff management, client management, project management, financial and sales report management, Inventory management, production and factory management, supplier management.

The system is designed to use by major acting roles of the organization namely CEO, COO, Secretary, Administration, Accountant, Assistant Accountant, Team Leader, Quantity Surveyor, Sales Executive, Customer Relations., Designer, Technical Officer and Storekeeper.

Implementation of the project is done using a tab control to enhance the user experience with a minimalistic user interface.

As the system replaces the traditional file based slow management system of the organization, the system will address most of the current problems faced such as time management, data security, redundancy and storage management.

As a summary the A Business Management System for “Kitchen & Bedroom (Private) Limited”, we can conclude that the proposed system will create a dynamic working environment as a result of the productive and efficient desktop application.

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List of Acronyms and Abbreviations

CEO – Chief Executive Officer
COO - Chief Operating Officer
SRS – Software Requirement Specification
SDLC – Software Development Life Cycle
UML – Unified Modelling Language
GUI – Graphic User Interface
ER – Entity Relationship diagram

List of Keywords

- CEO
- COO
- Secretary
- Administration
- Accountant
- Assistant Accountant
- Team Leader
- Quantity Surveyor
- Sales Executive
- Customer Relations
- Designer
- Technical Officer
- Storekeeper

Acknowledgements

we would like to use this opportunity to thank the supervisor of our project Ms. Chandula Rajapakshe for her patience guidance and constant support throughout the project.

Additionally, we would like to express our gratitude for our university, National Institute of Business Management for giving us this opportunity to carry out a project like this successfully.

Moreover, we are also grateful to everyone who helped us specially including our parents and members of relevant organization for their support.

Thank You!

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Chapter 1: Introduction

1.1 Introduction of the Organization

“Kitchen & Bedroom (Private) Limited” is an Interior designing company located in No. 126 Park Road, Colombo 05 which sells their products with the brand name “BlueBerry”. The company was initiated on 10th of May 2018 in Dehiwala area in a small garage with two staff members. When it is 20th September 2020, the owners were able to grow it up to a company level organization as a result of their hard work.

The company mainly customizes kitchens and bedrooms according to what customer wishes by converting the ideas into reality. “Kitchen & Bedroom” is an ideal and prominent company for who seek innovative solutions for their living places, which is one of the upcoming leading brands in interior designing sector among Sri Lankans. The service provided by them is very feasible and luxurious as they got the partnership of internationally recognized companies such as Hafele India, Hettich, and Blum to purchase high quality and innovative products for their interior designs other than local product.

Slogan of the company is “It is time to shine,” which is also implies that the company’s main goal is to design the interior with latest elegant styles to satisfy client needs and reflect their unique personalities through the designs. This process will convert a general space into a convenient inspiring location. The vision of the company is to position the business place in a leading position in Sri Lanka in the field of interior designing and project planning. In order to fulfil their vision of business, they have established a mission. It mentions that they are organized to compose the client’s interior by introducing the elegance of luxurious product and designs which are timeless and long lasting.

The company is also visible in social media platforms such as LinkedIn, Facebook, Instagram to capture the attention of customers by publishing their projects. Additionally, the organization owns a basic level website for enhancing their online visibility as well.

Overall, the company is in a state which is stable enough to stand as a brand to represent their identity.

1.2 Organization Structure

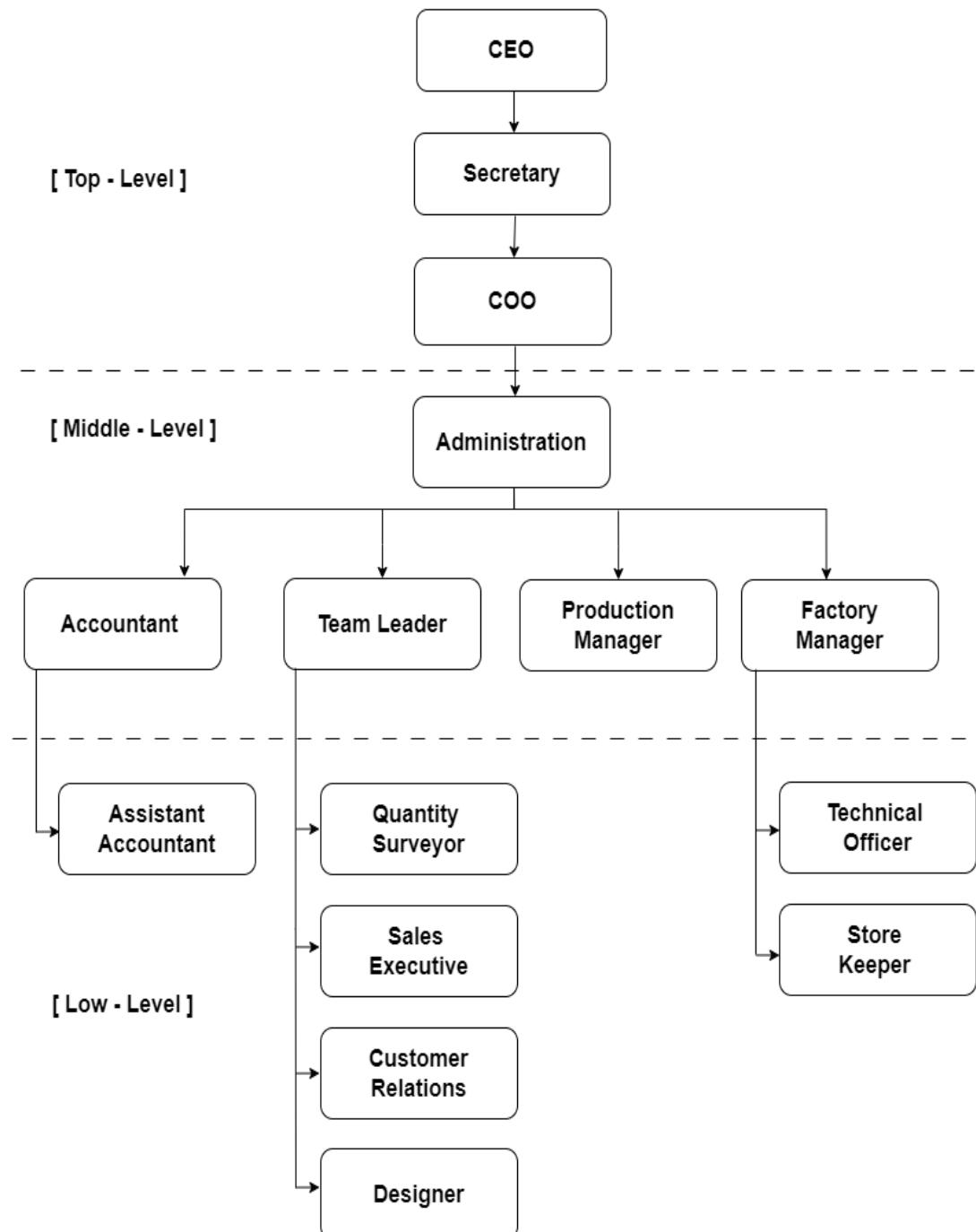


Figure 1 : Administration Levels

The organizational structure of the “Kitchen and Bedroom” consists of three main levels based on their functions towards the company.

1. Top-level

The acting roles who are at the top of the hierarchy of management are considered here. They mainly focus on expanding the business and managing the overall staff and tasks.

CEO, secretary, and COO include to this level.

2. Middle-level

Administration, accountant, team leader, factory manager and production manager include this level. Projects which are gained to the company by the client are guided by the acting roles mentioned above.

3. Low-level

The acting roles which work under the middle-level include to this level. The accountant supervises assistant accountant while Quantity surveyor, sales executive, customer relations, and designer are managed by team leader.

Additionally, product manager oversees both technical officer and storekeeper.

In collaboration with these three levels, “Kitchen & Bedroom” manages the organizational functions in a systematic manner.

Other than the higher positions in the hierarchy given, the roles such as suppliers, carpenters, security staff, drivers, and cleaning staff also play a major role in daily processes in company.

1.3 Current Operations in Organization

The current operation when dealing with the customer by the company is done according to the following steps.

1. Once the client visits the company and inquires, the company gathers the information and requirements of client and provides a brief introduction of who they are and what they perform.
2. If customer has an interest towards the project, the company site visits the client's place for the first time and gets the required information such as measurement. Designer and sales executive may attend this site visit. If any of these roles are not present technical officer, quantity surveyor, or the production manager is responsible for the task.
3. Then the company provides the quotation to the client.
4. If the customer is interested to continue the project, company plans the relevant project by purchasing products needed and designing the architecture using "AutoCAD" software. At this stage, customer details are added to their customer entry.
5. When the project planning and designing is done, the company creates a slide deck and show cases the client to deliver proper idea of the design.
6. If the customer approves, they perform the changes according to his or her additional requirements.
7. Then the company site visits for the second time with the contribution of quantity surveyor and technical officer to estimate the cost and raw materials.
8. Once the deal is clear with two parties, an advance payment of 60% is done by the client and the agreement signed.
9. Then the last site visit is done by production manager have the last look on the relevant site before the installing the project.
10. At last, the company delivers the products in 21 working days to the doorstep of the customer and ends the process by installing them under the supervision of factory manager and a team of carpenters.

11. Maintenance for the installation also will be provided for a specific period of time by the company.

Apart from the interaction between customer and company there are some operations based on organization's day-to-day activities and ethics.

1. The organization tracks the customer follow up and customer feedback in daily basis.
2. Checking mails is done once in a two-day time period. Webmail is used by the company to manage the mail which are received and sent.
3. Account reports and purchasing products are checked and managed in weekly basis. Basically, the financial and accounting reports are stored in a Quick Book.

These can be considered as overall current operations which take place within the "Kitchen and Bedroom Pvt Ltd".

1.4 Users and Responsibilities Organization

The company's staff can be categorized and the relevant roles for each category are as follows.

1. Authorized Staff

- CEO of the company overlooks the processes and expands the business scale by using strategic planning and decision-making privileges. This is the role is responsible for the overall growth of the company as it manages the whole system.
- Secretary of the company plays a major role as is it the position who ensures the companies legal and ethical standards by managing the documents and records. Additionally, they facilitate the inter-relations between authorized staff with operational and staff.
- COO of the company mainly focuses on operational management, implementation of strategies and performance monitoring. COO gathers the staff in collaboration with CEO for innovation and improvement regarding the current process.
- Administration handles the staff and provides the staff welfare. The operational staff works under the supervision of administrator as they schedule and coordinate the events in the company.

2. Operational Staff

- Accountant handles and manages the financial and sales reports of the organization. Moreover, they determine the budgets and cash flow in order to manage the risks and cost.
- Team Leader builds a team with contribution of experts to fulfil the client's project in an efficient manner. They make decisions in overall teams under them.

- Production Manager overlooks the production process and looks over the factory site. Inventory management also a part of the role of production manager.
- Quantity surveyor provides the quality report including production materials, workmanship and overlooks the technical information. The role does the feasibility studies and maximizes the functionality by exploring modern designs and methods.
- Sales executive is the person who brings the client to the showroom. Furthermore, the proposal and contract management, sales forecasting, market research and collaboration with department is done by the sales executive.
- Customer relations handle the customers who agreed to deal with the company project. Customer satisfaction and customer experience enhancement is managed by this role.
- Designer is responsible for concept development, design planning and technical drawing.
- Technical officer's main tasks are providing technical support and system maintenance.
- Factory manager needs to manage all the processes regarding factory site including labour and supplier management.

3. Support Staff

- Storekeeper is responsible raw material store and creates reports consistently.
- Assistant accountant is assigned to support the accountant in his tasks.

Proper cooperation between the above-mentioned roles will ensure the structured and systematic operations within the company.

1.5 Problem Definition

Even though the company is in a stable status in their field, they are encountering difficulties in current operational process. Some of them are mentioned below.

- Enhancing the efficiency and functionality to ensure the rapid growth of the business is their main goal. Their current **operational methodology was manual** most of the time which causes loss of profits.
- **Delay of services** is a main issue faced by the organization. Some of the main reasons for this problem are improper communication among the acting roles, management issues and improper scheduling.
- Handling large number of clients in a short period of time ensuring the **scalability** is another encountered problem.
- **Security concerns** is also a challenge which they faced by company as they collect private and confidential information of the clients for the work purpose.
- The current system is hard to maintain and accessed because of its **paper-based documentations**.
- As a result of **lack integration** among the departments, the understanding on the process status among different sections of the organization has lost. This has been a major challenge faced by the company.
- **Human based calculations** have caused errors in payment and financial reports which leads to loss of interest and reduces the reputation of the organization.
- As another core issue, **skilled labour count is less** when compared to the workload of the company. This leads to service delays for the customers.

Organization needs to find solutions for the above-mentioned problems as a competitive advantage when standing on business field with their competitors. Fixing these issues may enhance the productivity of service provided and make the management process easy to manage.

1.6 Project Objectives

The foremost objectives of the organizations by implementing a system are given below.

- The organization expects to automate its functions and processes with an increased efficiency.
- Accurate calculations and reports are expected to generate which helps the organization to increase the consistency.
- Enhanced scalability by expanding the business to ensure its growth is rapid growth.
- Organization also expects to reduce unwanted costs by automating the processes and manage wastage.
- Organization also looks for real time alerts in order to make decisions more relevant.
- Secured data by encryption and authentication to ensure the protection data provided by clients and staff members is required by organization.
- Business needs to enhance its online visibility and increase the customer attention towards it.
- Reducing the number of staff members by automating most of the operations for an error-free and maintainable operational system.
- A system which can store the data instead of collecting them manually in paperbased system is required from the organization as it occupies physical space and hard to maintain.
- The services of the organization are expected to available 24/7 as the current operation is only available for working hours.

The proposed implementing system should fulfil the need of the organization in all above aspects to overcome their challenges.

1.7 Proposed Solution

As the solution for the problems encountered and to achieve project objectives mentioned above, a desktop application with an automated “Business Management System” is proposed to be implemented as a collection of following systems and features.

1. Staff Management System

Every individual is provided with a portal to access their profile in the system with a username and password manage the user information. Schedule staff, reschedule staff, attendance checking, payroll management including salary calculations are some of the functions planned to be added to this system.

2. Client Management System

Each and every client who visit the organization will be added to the database. This system will allow to add client information, update information, and provide feedback as well.

3. Project Management System

The system is implemented to manage a project by storing and updating required information such as assigned timeline, budget breakdown, project status, assigned tasks for relevant actors.

4. Inventory Management System

This system will hold information of the inventory regarding the stocks and availability of products. The information is accessible by relevant authorities.

5. Production and Factory Management System

System will monitor production status by the provided information. To enhance the productivity and quick workflow system will provide deadlines for each task.

6. Financial and Sales Report Management System

Basically, the system is created for the documentation purposes such as invoice generation, and relevant summary reports of requested functions.

7. Supplier Management System

Supplier gets a profile and data are stored here. It will help to manage the supplier in a systematic way. This system also builds up a connection supplier and the business.

Integration of above all the systems is planned design in order to enhance the productivity of the “Kitchen & Bedroom” organization.

1.8 Chapter Summary

Introduction chapter explains the gathered information from “Kitchen and Bedroom (Pvt) Ltd” for the purpose of implementing an automated system in a structured manner. It includes the evolution of the system from the beginning to present status with their future expectations. Gathered information has classified into problems and objectives in order to find the related solutions. As the solution, an automated business management system with many more sub system has planned to be implemented. The proposed system will enhance the overall performance of the business as the organization expected.

Chapter 2: Methodology

2.1 Introduction

The chapter covers the plan of establishing the above proposed desktop application from its first to final phase. It covers the detailed information of,

- The requirement gathering and analysis
- Designing
- Developing
- Testing
- Implementing phases

Mainly before the requirements are gathered and analyzed, a software process model is selected to initiate the task in a systematic manner. This chapter includes about the chosen software model and why it is relevant in order to get a better idea of the software development process.

2.2 Data Collection Method(s)

Requirement gathering is the most critical and key task when developing a software. When considering the process of building a business management system for the “Kitchen and Bedroom (Private) Limited”, the reason why we gathered information using multiple data collection strategies is to ensure that the end product is beneficial for user and relevant to their requirements and objectives. A proper requirement analysis will definitely reduce the probability of malfunction and failure of system by enhancing the accuracy and maintainability. In our case we have required information in 03 phases as follows. (geeksforgeeks)

1. Requirement gathering
2. Requirement analysis
3. Requirement specification

The requirement gathering was done using multiple strategies in multiple times to understand what the client exactly expects. We have used following strategies to understand the client requirements, scope, objectives, problems and current operations to decide whether what sort of solution will match them. The data collection methods what we used here are technology based or manual as per client preferred.

1. Observing the process

As the developers we visited the organization for understanding the operational process in third person point of view. It facilitated the team to identify the positive and negative impacts of the current process of organization.

2. Interviewing the organization

Interviews are conducted physically, over phone calls and zoom technology with different acting roles in the organization multiple times. Closed ended questions were asked to clarify the doubts while open ended questions were asked for a detailed explanation of a relevant aspect.

3. Analyzing the pre-existing documentations

The organization gave access to refer some pre-existing documents under certain conditions which hold information of financial and sales reports, staff and customer management for gaining the required knowledge of what data to be stored in the system and what functions to be implemented.

4. Questionnaires and surveys

Questionnaires and surveys are used to collect data and information from the organization using online platforms and meeting physically. The set of questions which we inserted to the questionnaires and surveys were multiple choice, ranking questions, open-ended questions, close-ended questions, and Likert scale questions from the aspects what developers identified when observing the current operation, documentations and their social media platforms. This helped to determine most of the requirements which client did not explain in interviews.

After gathering the relevant information, the collected data subjected to analysis process. This process will ensure the feasibility and avoid misunderstanding of the requirements. When the analysis happens, the constraints and the functions of the proposed system are clearly forecasted to mitigate the risks before the process reaches the end of development.

Once the analysis is done the requirements are specified using a SRS document by classifying the requirements as system, user, functional, non-functional and domain requirements for the better understanding of the clients. Overall functional requirements and non-functional requirements gathered related to “Kitchen & Bedroom (Private) Limited” are given below.

1. Functional requirements

CEO

- Responding feedback
- View supplier, client and staff profiles
- View payment, sales and project information
- View sales information
- View salary, client and organizational payments

Secretary

- Manage meeting schedule
- Manage meeting information
- Generate meeting reports

COO

- Responding client feedback
- View meeting, sales, payment and attendance information
- Approve or reject projects
- Manage supplier, client and staff profiles
- View required inventory list
- View meeting information

Team Leader

- Manage project information
- Set project deadlines

Production Manager

- Manage project installation on client location
- Item management

Administration

- Mark and manage employee attendance
- Manage and assign tasks
- View approved project information
- Schedule staff tasks

Accountant

- Calculate salary payments
- Generate financial reports (daily, weekly, monthly)
- Calculate and manage salary, client and organizational payments

Factory Manager

- Update inventory availability
- Send inventory request
- Manage tool information
- Raw material management

Assistant Accountant

- Generate financial reports
- View employee attendance
- Manage calculated salary calculations

Quantity Surveyor

- Manage project cost

Sales Executive

- Generate sales report
- Manage sales information

Customer Relations

- Create and manage client profiles
- Manage order details

Designer

- Upload, delete, reupload and view design files

Technical Officer

- Review designs
- View inventory information
- Request inventory availability
- Manage technical inventory

Storekeeper

- Manage inventory information
- Generate inventory reports

Other than the mentioned requirements every user can perform followings.

- Register to the system
- Login and logout
- View, add, update, delete employee data
- View salary information
- Send feedback
- View dashboard
- View scheduled meetings
- View assigned tasks

2. Non-functional requirements

- Maintainability

System should be easy for the users to maintain as well as for the developers to rebuild if any issue identified.

- Security

Authentication and recovery options secure private and confidential information user.

- Portability and compatibility

System should support in all devices with minimum errors.

- Usability

User friendly interface should support the users to perform their tasks.

- Reliability

Downtimes should be minimum and available 24/7.

- Availability

System should be available whenever the stakeholders need to access.

- Performance and speed

Measure the quality of the system because the higher load times reduces the tendency of using the software by users.

- Integration

Should be compatible enough with existing things in the business.

- Scalability

System should not get higher load times in network traffic times.

2.3 Software Process Model

Once the requirement analysis process is done, a software process model should be determined to meet the client requirements and objectives by implementing a suitable system. **Agile Methodology** is considered to be used when the “Business Management System” for “Kitchen & Bedroom (Private) Limited”.

The reasons for selecting agile methodology are listed below.

- Agile methodology is flexible than other methods as it works well with unclear and changing requirements of the client
- As the given time period for implementation of software is only four months, it is important to select a methodology will support for short time schedule and faster delivery of product.
- As agile is an incremental process, it reduces the risk of failure of system often and facilitates maintainability.
- The system can be consistently improved according to client need as the agile supports for multiple releases. When considering the proposed business and management system, several improvements and changes will be requested by the organization.
- Agile methodology is a SDLC model which ensures the collaboration with all stakeholders such as developers, client and management to attain satisfaction in every party.

“Scrum” is the agile technique which is planned to use when developing the proposed desktop application.

2.4 Software Development Tools

The following software development tools have been planned to use.

1. Visual studio

Csharp (C#) programming language is planned to use when implementing the desktop application which is proposed. Other than Csharp it supports other programming languages as well.

2. MSSQL server

MSSQL server supports for database management by storing data and managing them.

3. Draw.io

This software is used to design ER diagrams, use case diagrams, class diagrams and sequence diagrams clearly.

4. Figma

Figma is a software, used to design and have an idea of user interfaces.

5. Google drive

Stores data related to the software process activities.

When developing the system more technologies can be used.

2.5 Testing Strategies

System testing stands for executing the software to identify bugs and fix them. This is also a risk prevention method. Proposed system is planned to be tested once the software development is done using following functional testing strategies.

(Javatpoint.com)

1. Unit testing

The primary testing method of software, which tests each unit of software separately. Performance, correctness and functionality of unit component of the software is determined in unit testing.

2. Integrated testing

Many units tested components are integrated together in order to find the software's communication accuracy among them.

3. System testing

The whole system is tested based on the task performed. This testing phase will help to find functional and non-functional requirements.

4. Acceptance testing

Acceptance testing has 02 types namely alpha testing and beta testing. Alpha testing is performed by developers to identify errors and bugs in the system before releasing while beta testing is done by end users to identify errors in functionality when using.

These 04 strategies are performed one after another in testing phase to gain an error free product.

2.6 Implementation Plan

The project implementation plan is done according to the agile steps. Each step is managed as follows. (Mobile App Development Using Agile and Kanban Methodologies – Dimitris Souris LinkedIn)

1. Requirement gathering and analysis

Requirements are gathered from the stakeholders by product owner using information gathering techniques. Then requirement analysis is done for identification of scope, problem statement, objective, vision, mission and other basic information which are essential for system implementation.

2. Planning the project

Planning phase mainly structures the foundation of the software by identifying the functional, non-functional and domain requirements which should be addressed for developing a customer satisfiable software. To have a proper idea of above-mentioned requirements UML diagrams, ER diagrams, and related sketches are drawn by developers at this stage. Moreover, estimated budget and timeline of the project is also determined.

3. Design

GUI of the design will be designed along with frequent feedback from client.

For gathering feedback prototype models will be shown to the client.

4. Development

Coding process will start at this phase for the GUI structure. The database is also created in order to implement the planned project with required features and functions.

5. SQA and testing

Testing is done according the explained earlier both manually and in an automated manner to find errors and debug them.

6. Release the software

Debugged, updated software will be launched to the working environment to be used by the clients.

7. Review

In terms of agile a retrospective meeting is held to identify positive and negative outcomes of the system.

8. Maintenance

The negative outcomes and additional features will be added to the system by developer team in this phase while the system is used by the organization according to client needs.

2.7 Chapter Summery

The chapter covers the implementation process of the proposed system. Requirement gathering strategies, development model, testing strategies, development tools are identified in this chapter. Additionally, the functional and non-functional requirements which is included in the SRS also listed out in requirement gathering section. Overall, the chapter is the basic foundation of developing the software.

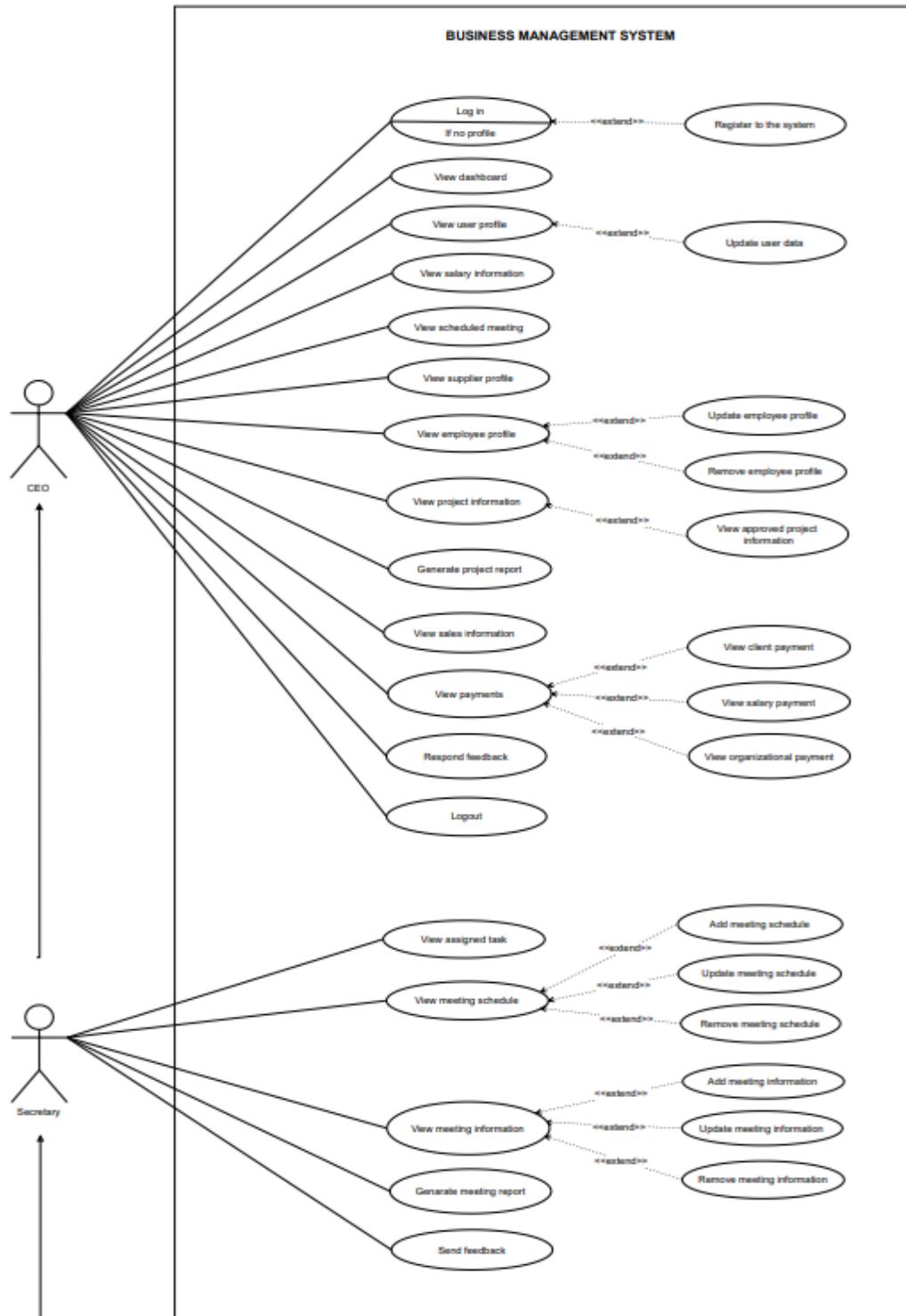
Chapter 3: Analysis

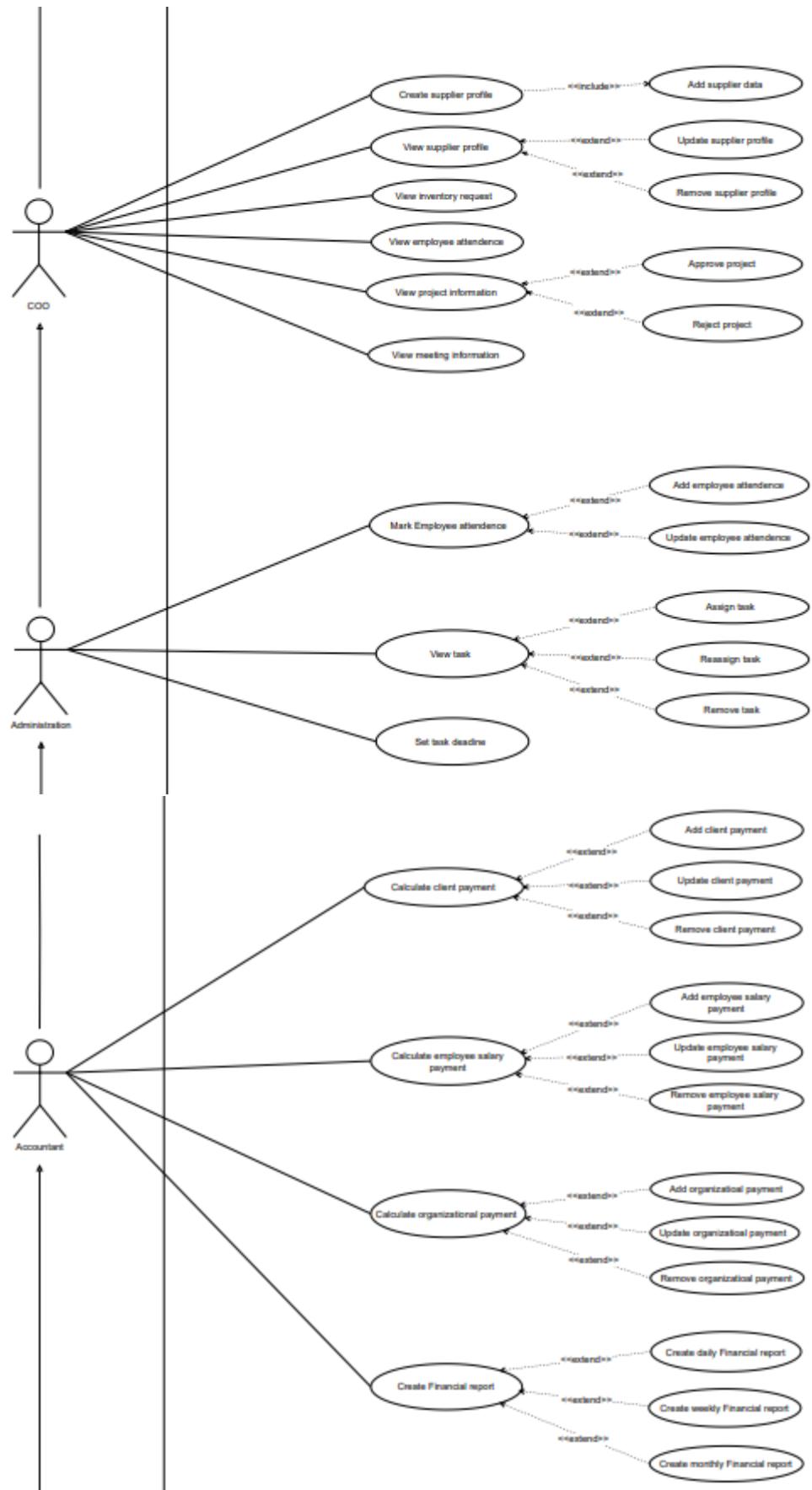
3.1 Introduction

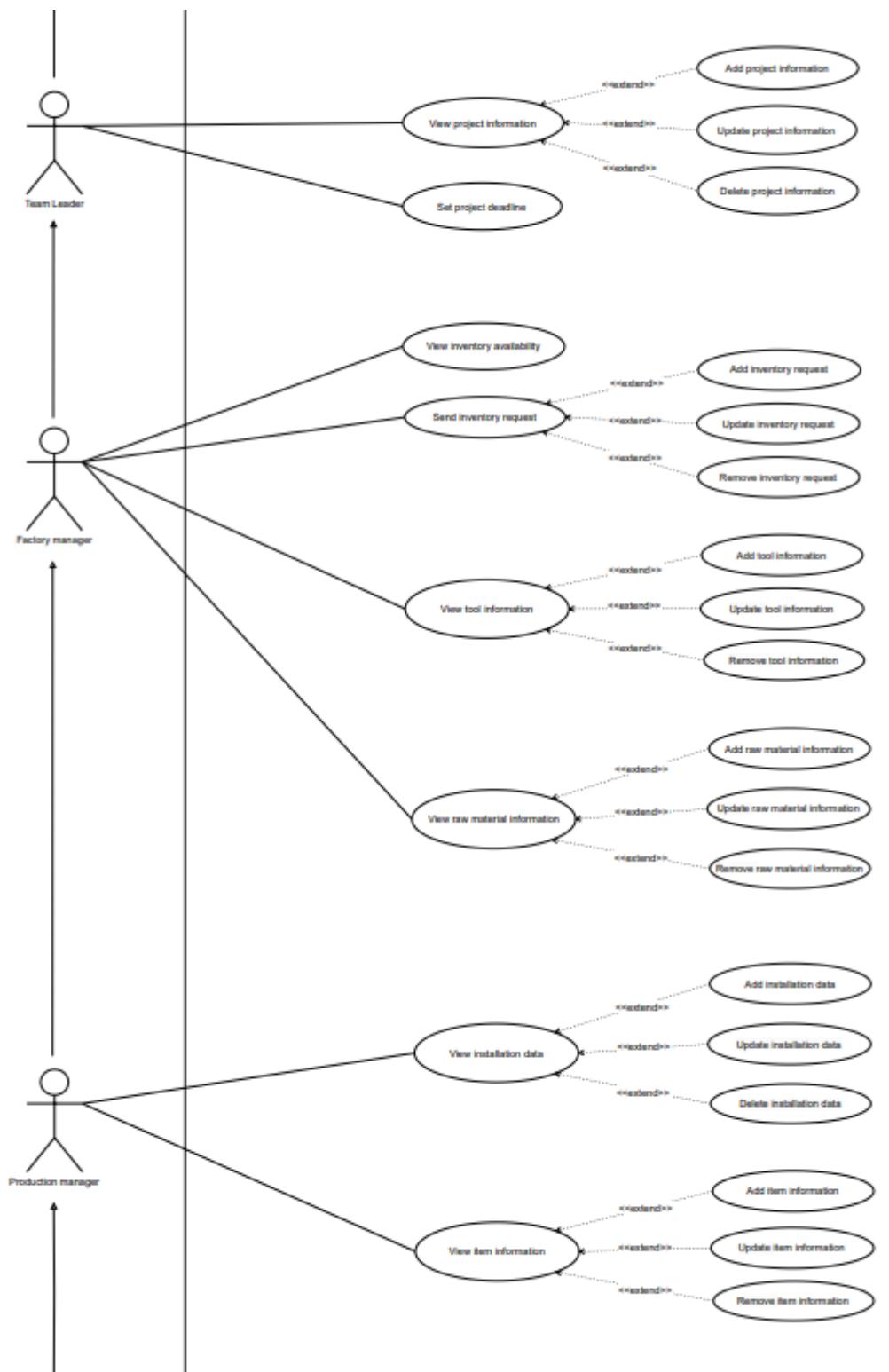
The following chapter consists of the UML and ER diagrams for the proposed system which graphically illustrates the structure, relationships, and architecture of model and design. In this analysis process, it identifies the potential risks and mitigations based on the gathered requirements and calculates the overall budget and costs for the system as well. These requirements have been gathered using interviews, surveys and meetings.

3.2 UML diagram

3.3.1 Use Case Diagram of Proposed System







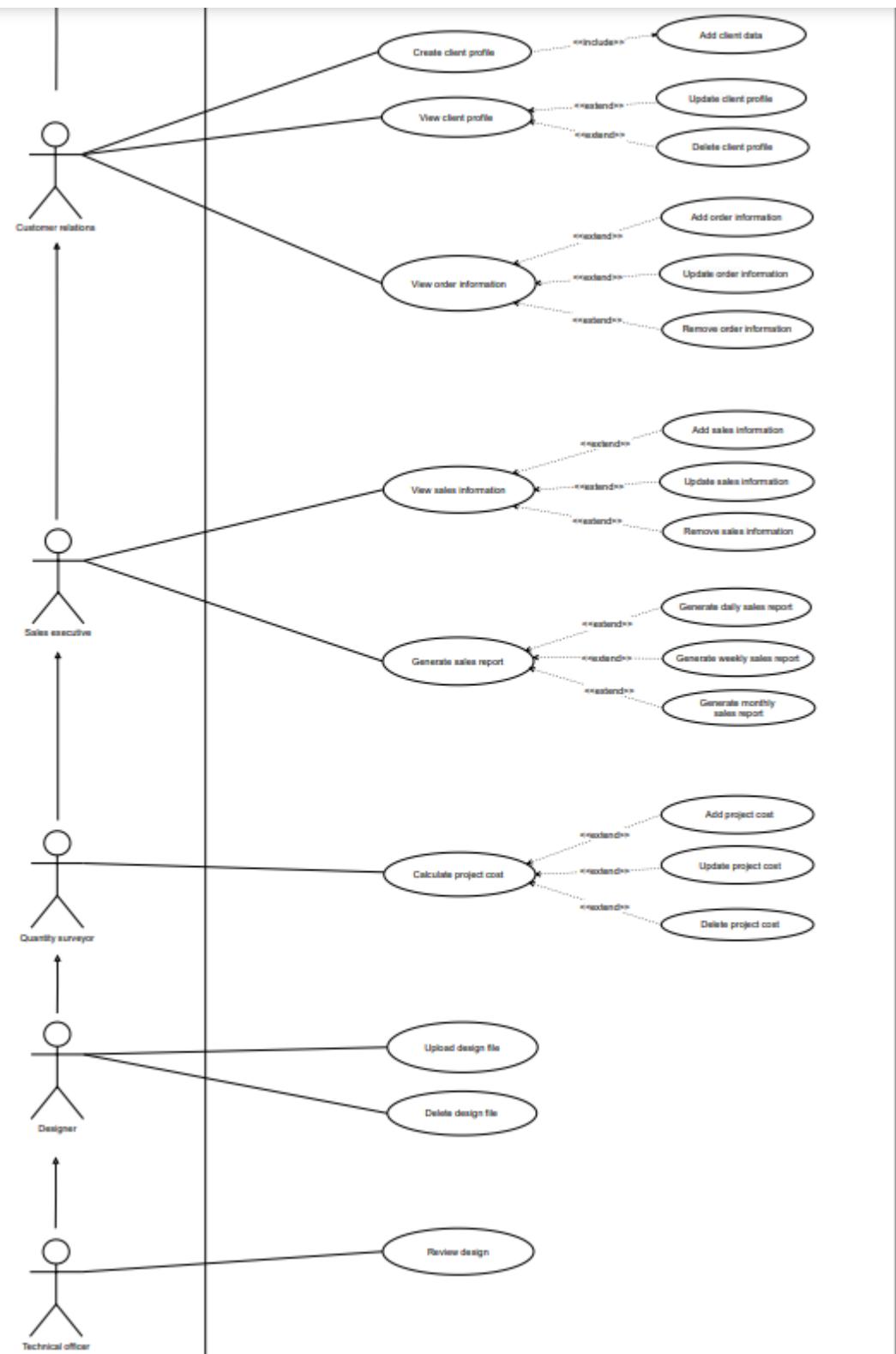
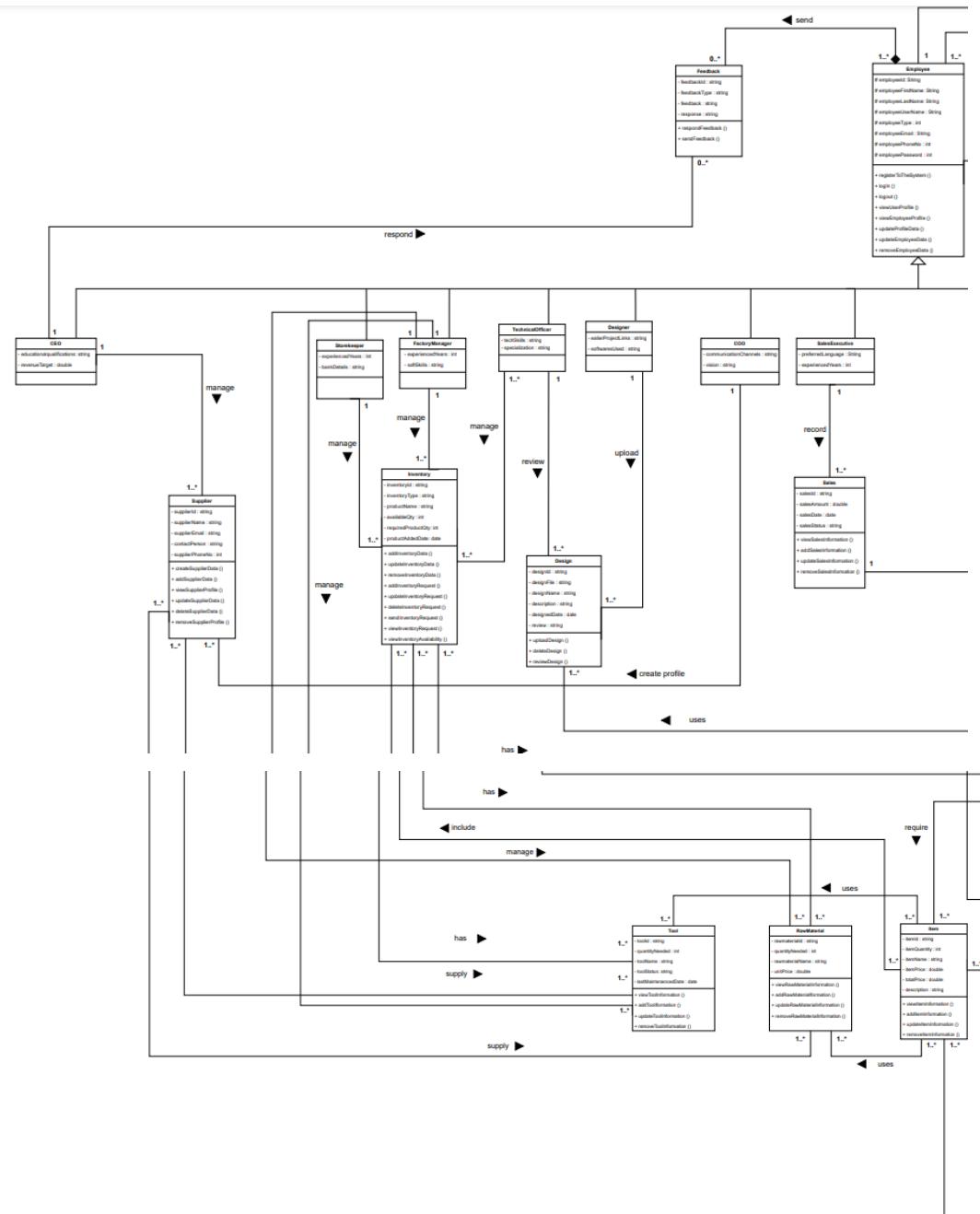




Figure 2 : Use case diagram

3.3.2 Class Diagram of Proposed System



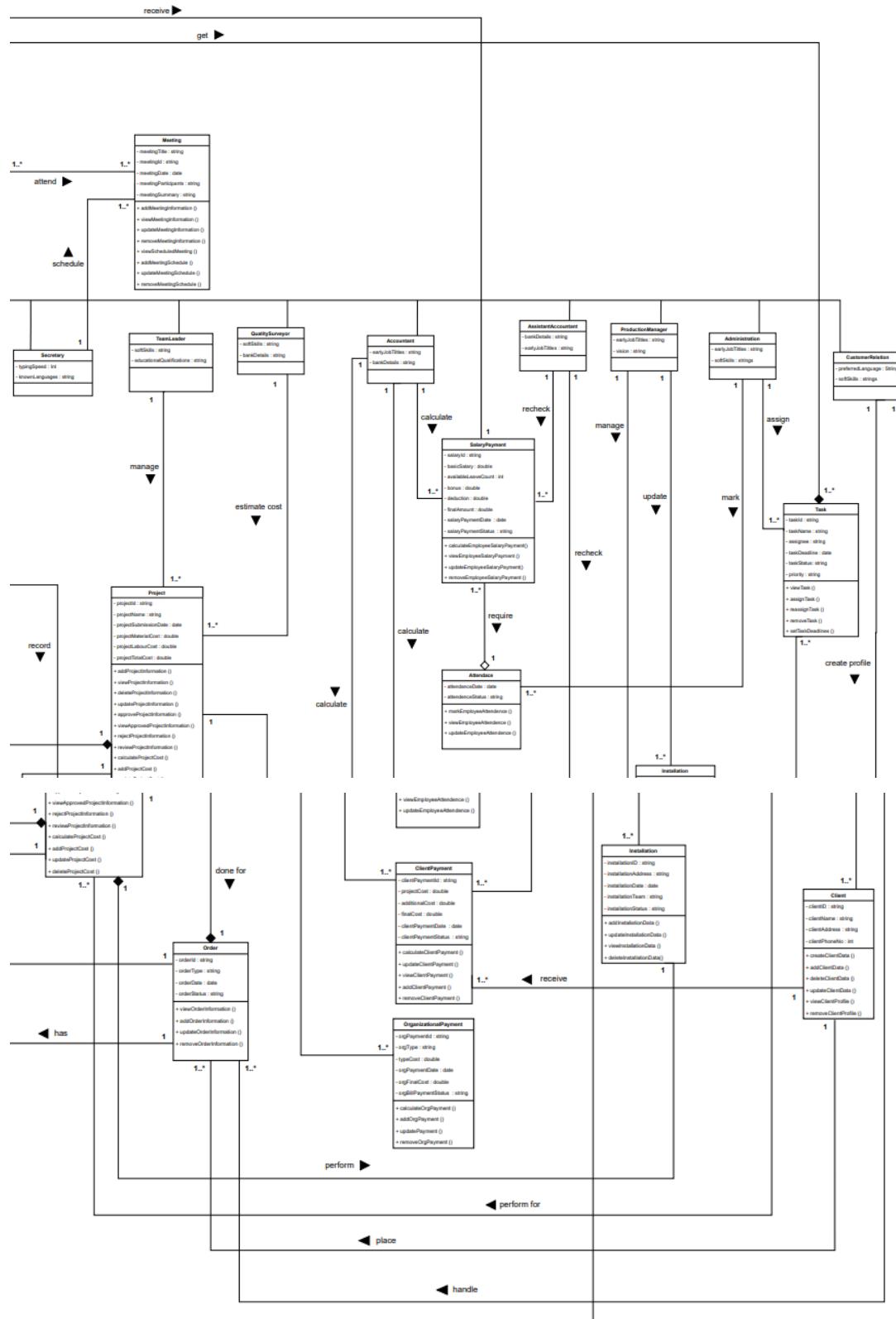


Figure 3 : Class diagram

3.3.3 Sequence Diagrams for Proposed System

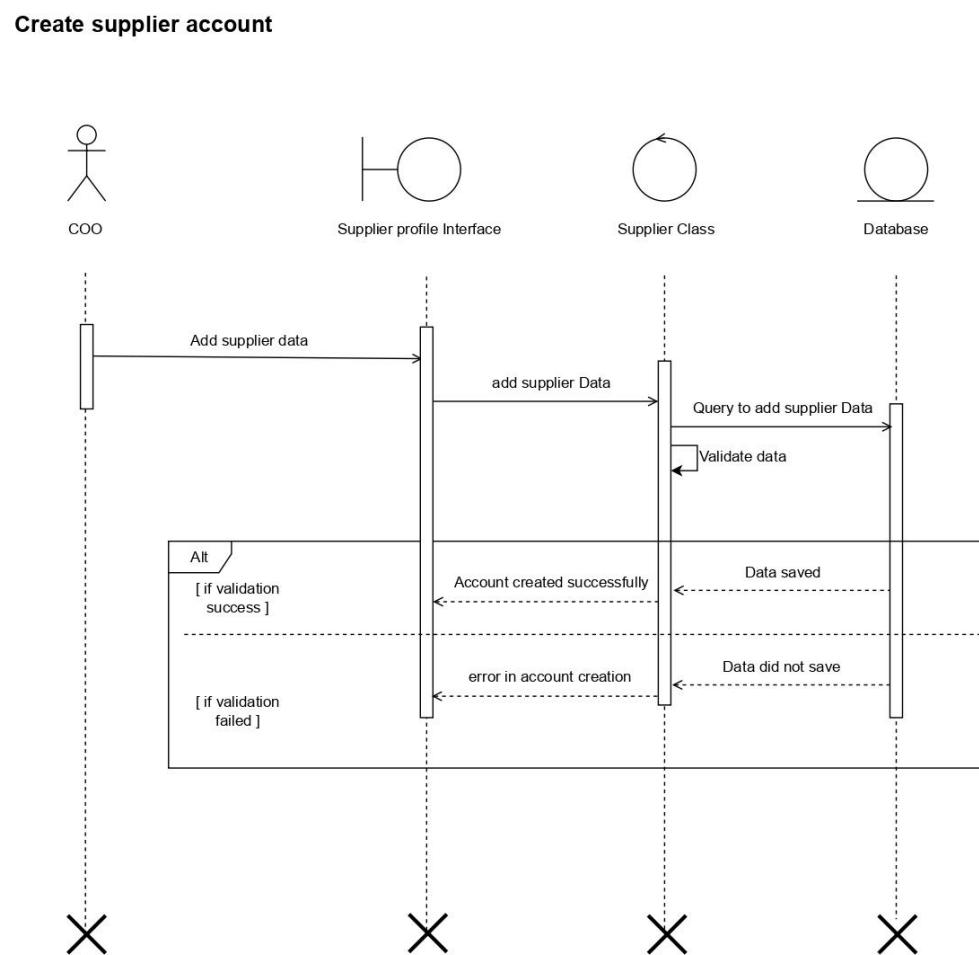


Figure 4 : Sequence diagram 01

View, Update and delete client profiles

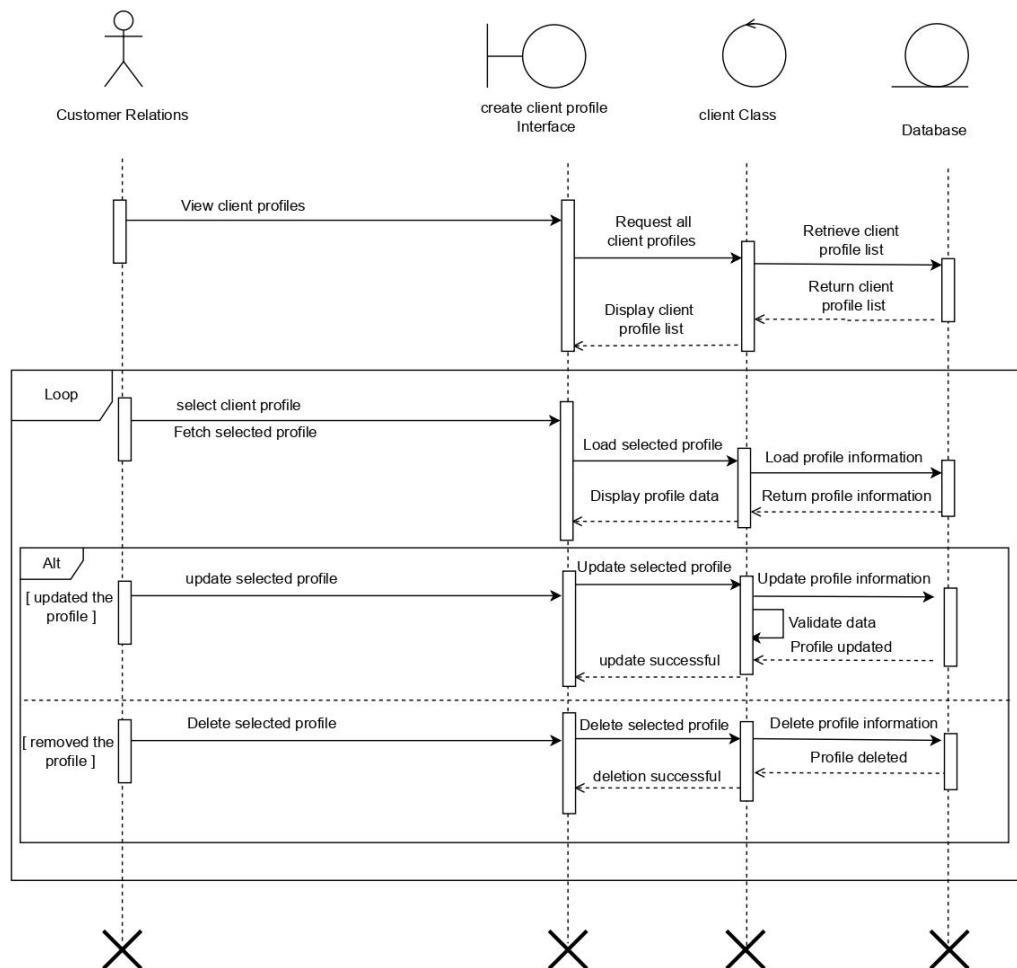


Figure 5 : Sequence diagram 02

View, Add, Update and Delete installation

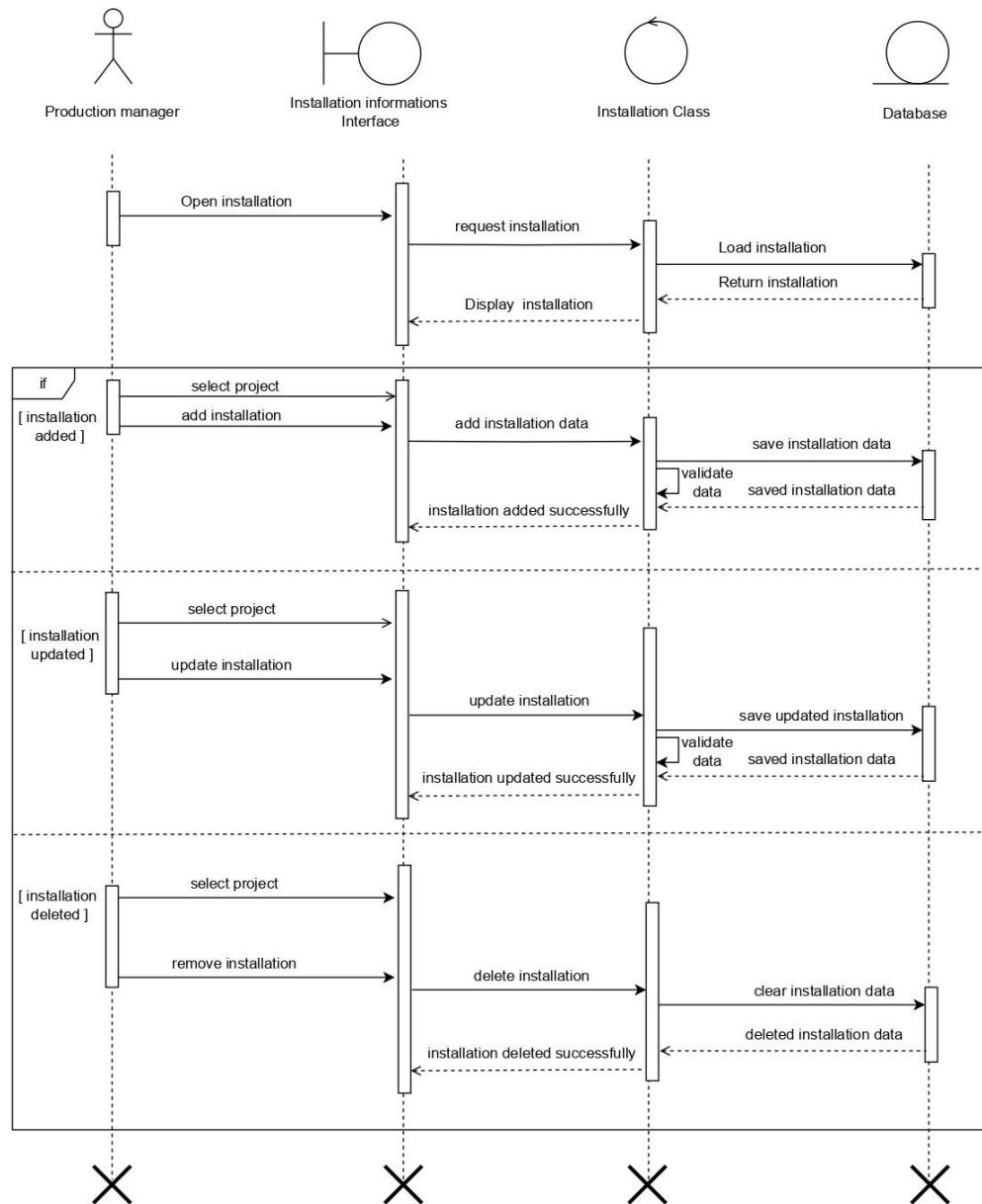


Figure 6 : Sequence diagram 03

View, add , update , delete item

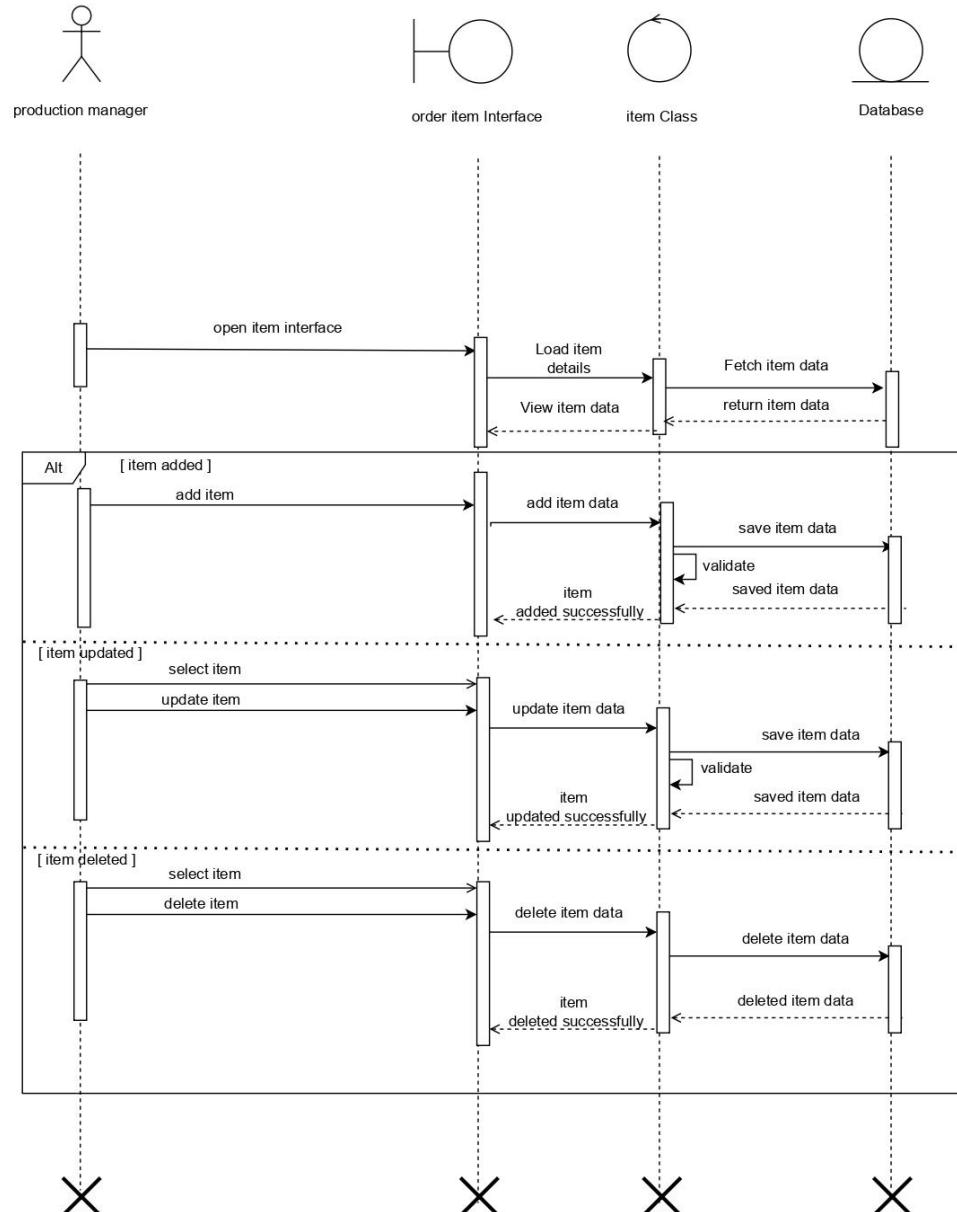


Figure 7 : Sequence diagram 04

View, add , update , delete organizational payment

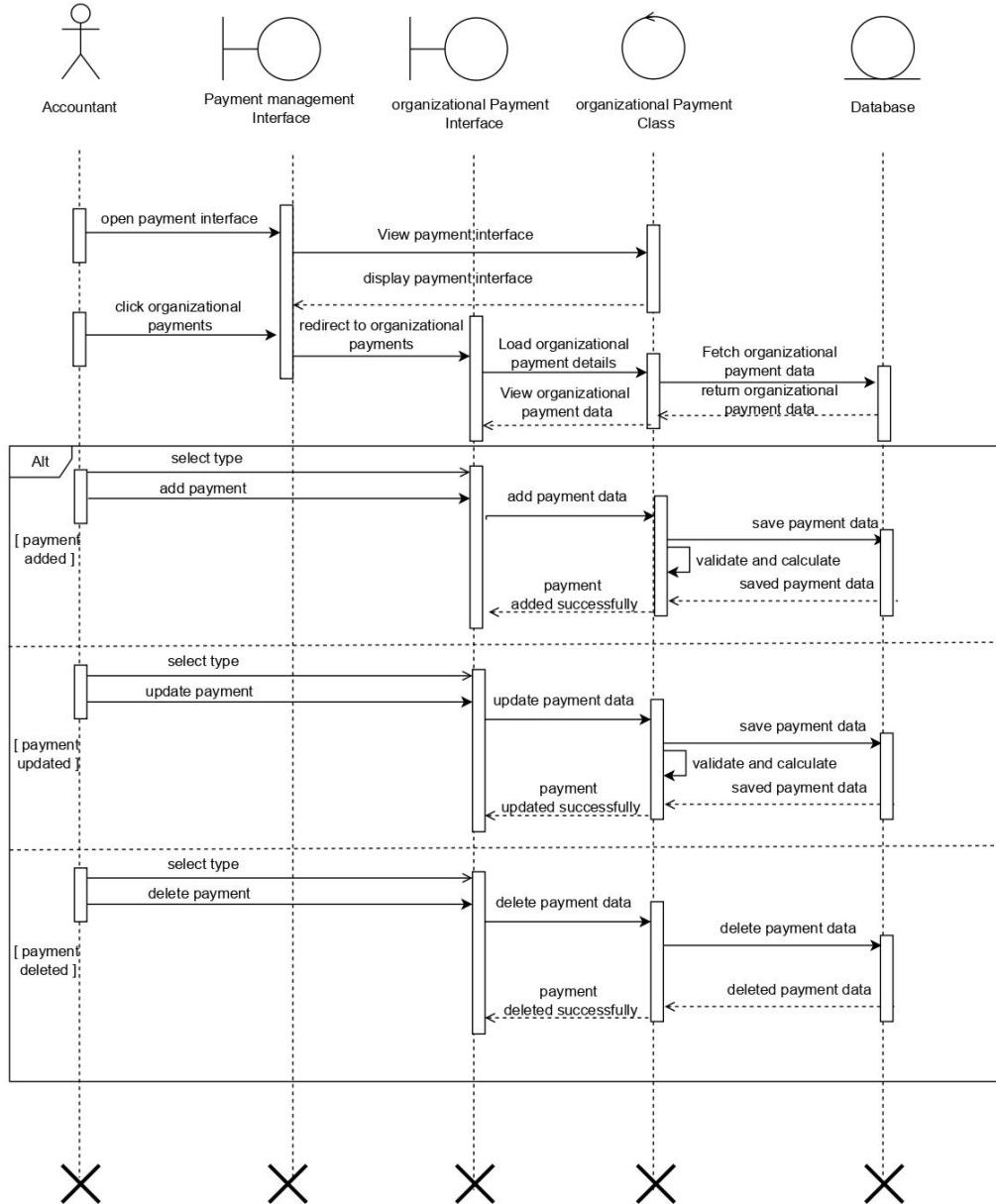


Figure 8 : Sequence diagram 05

View, Add, Update and Delete Project information

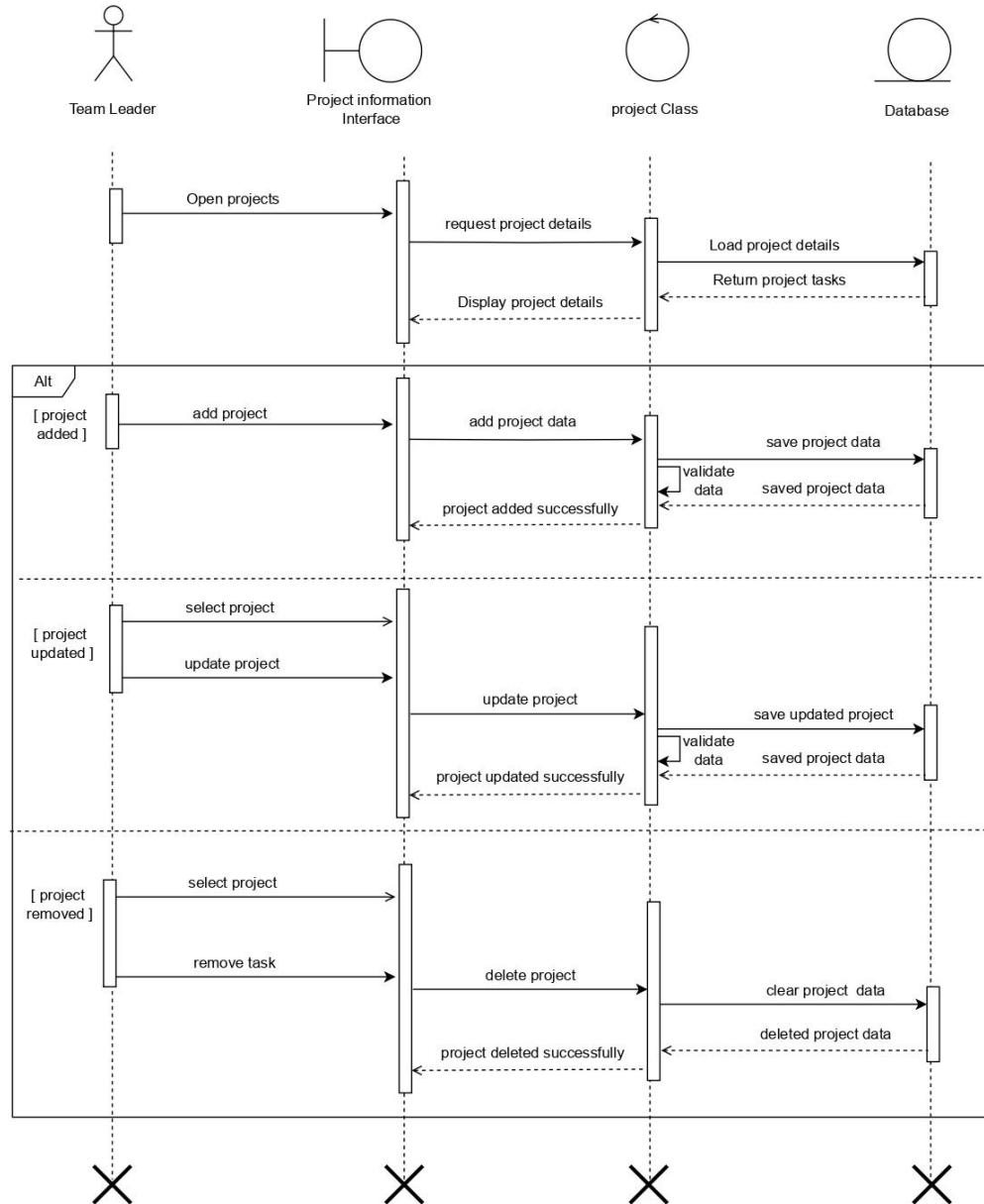


Figure 9 : Sequence diagram 06

View, add , update , delete staff salary payment

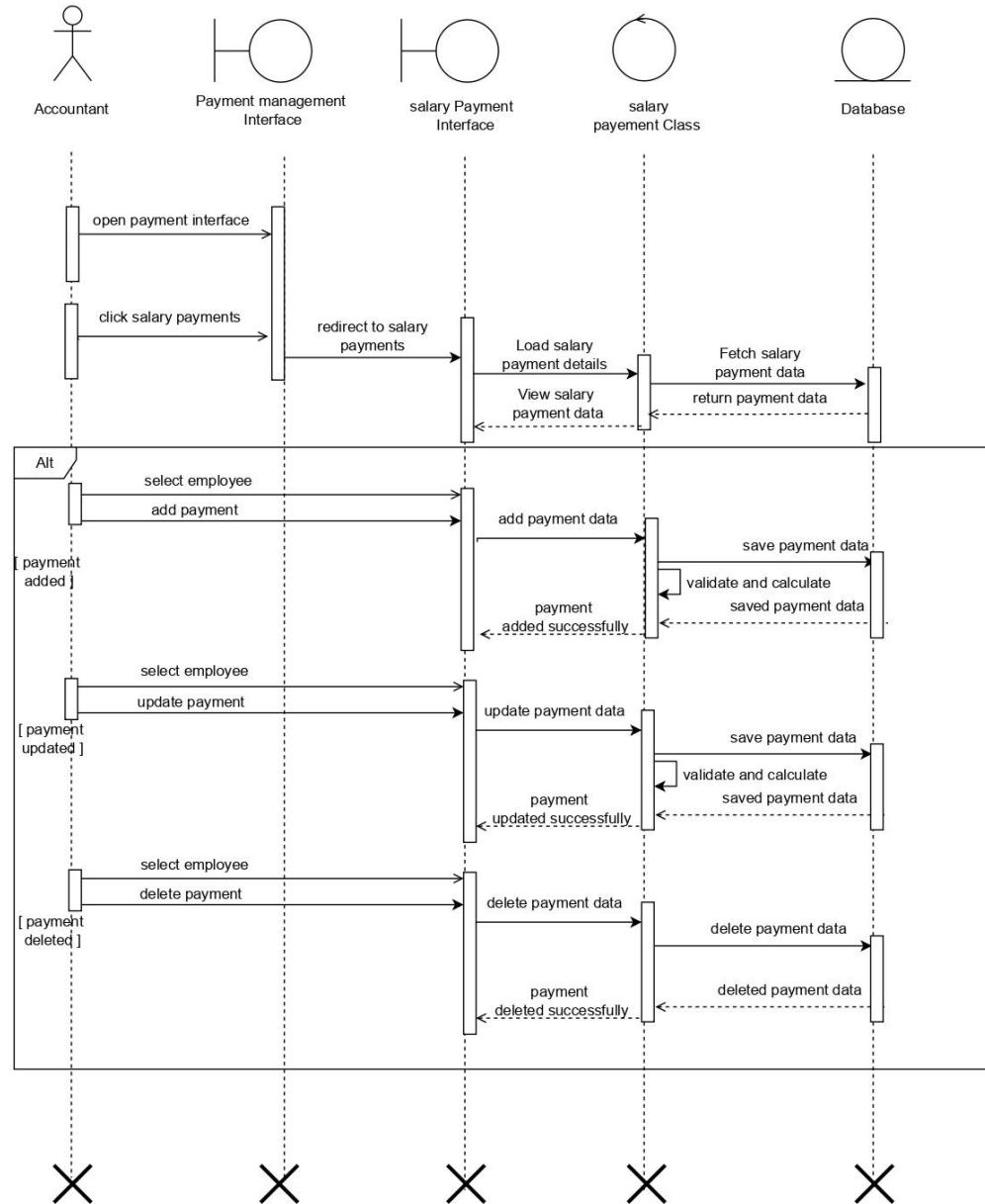


Figure 10 : Sequence diagram 07

View , add , update , delete inventory request

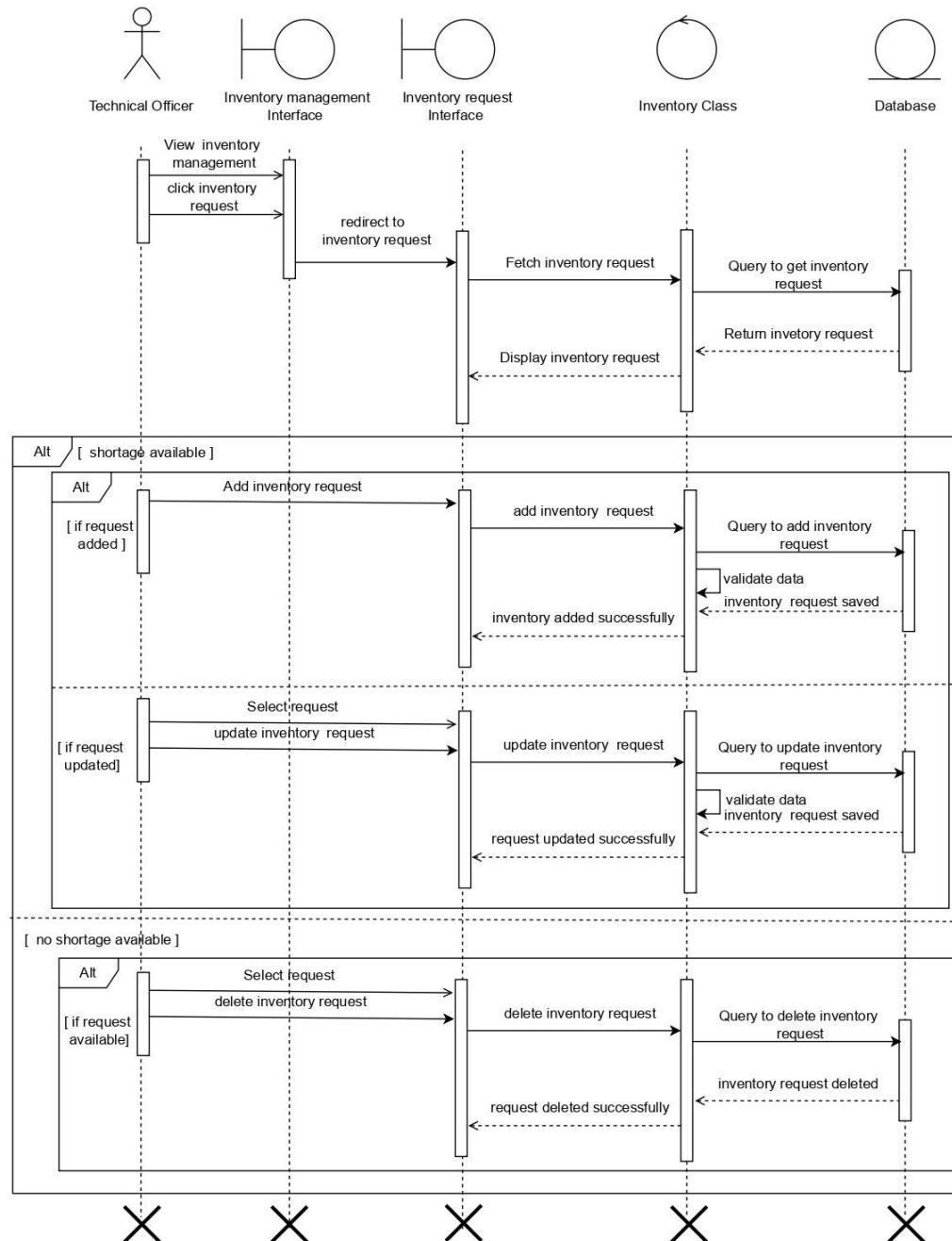


Figure 11 : Sequence diagram 08

View , add , update , delete stock request

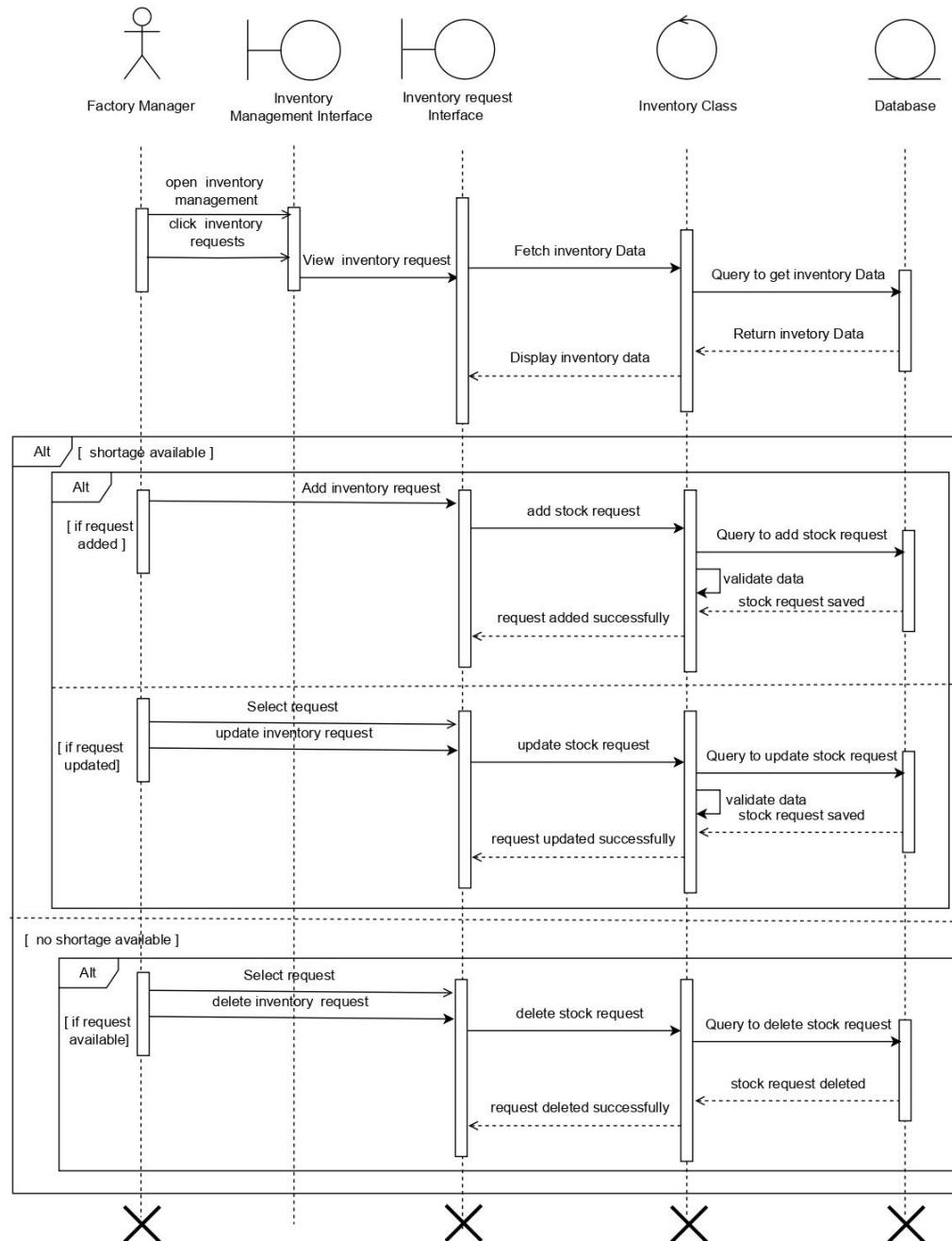


Figure 12 : Sequence diagram 09

View, add , update , delete tool

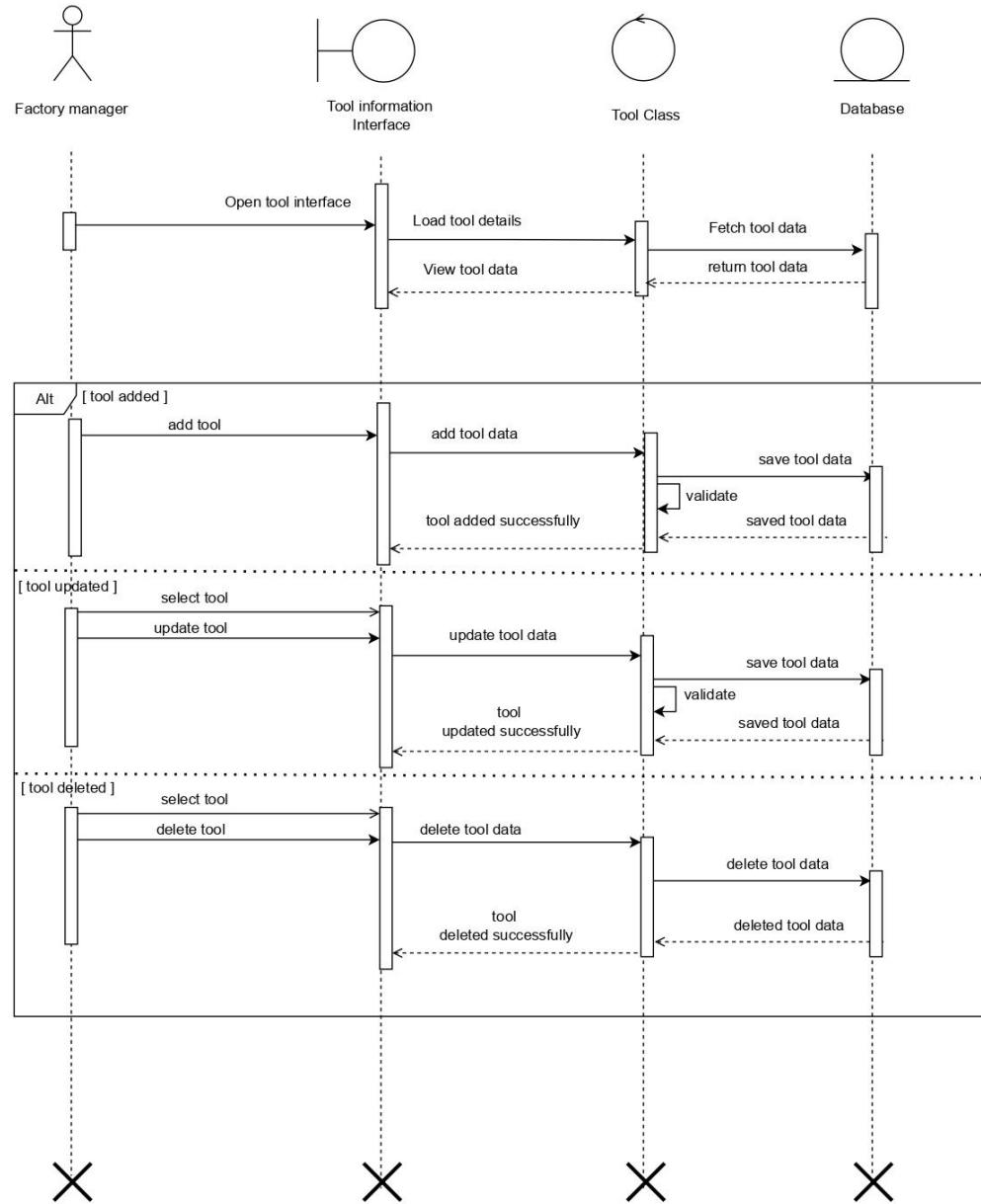


Figure 13 : Sequence diagram 10

View salary payment

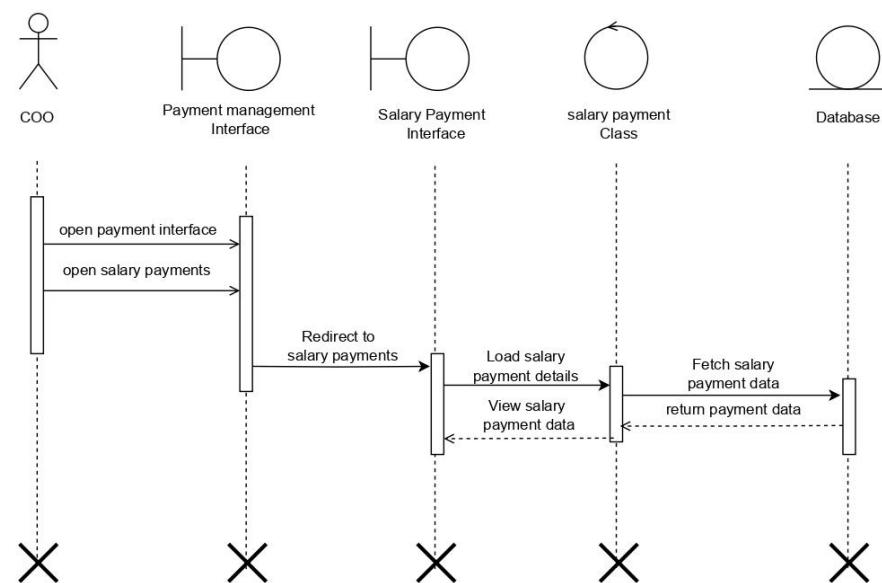


Figure 14 : Sequence diagram 11

Delete designs

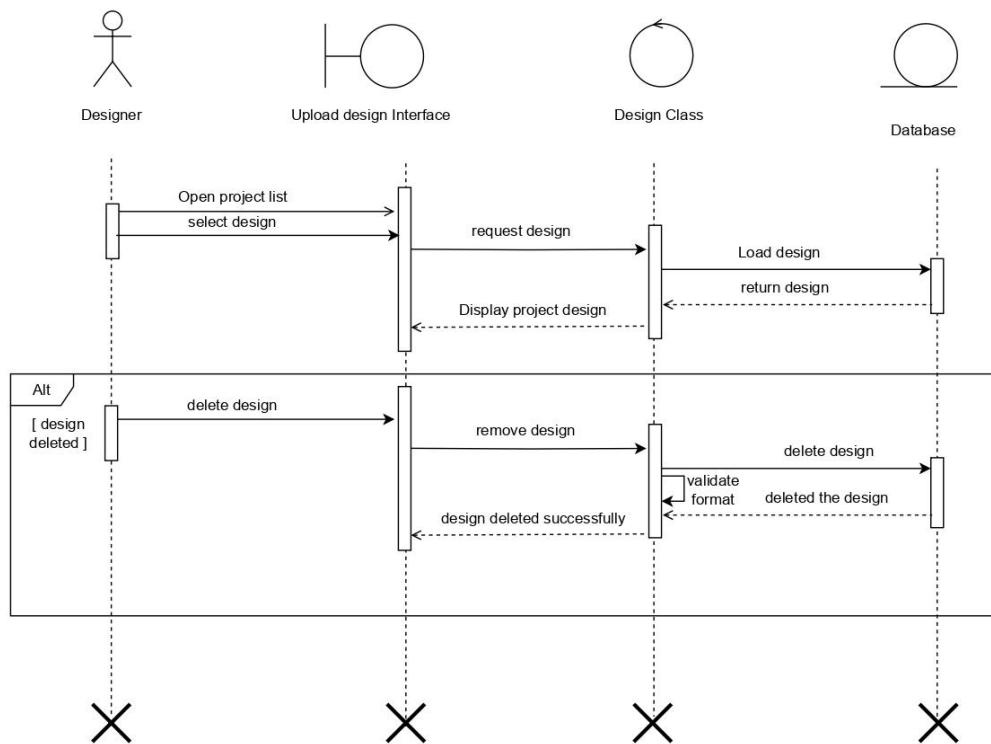


Figure 15 : Sequence diagram 12

View assigned task

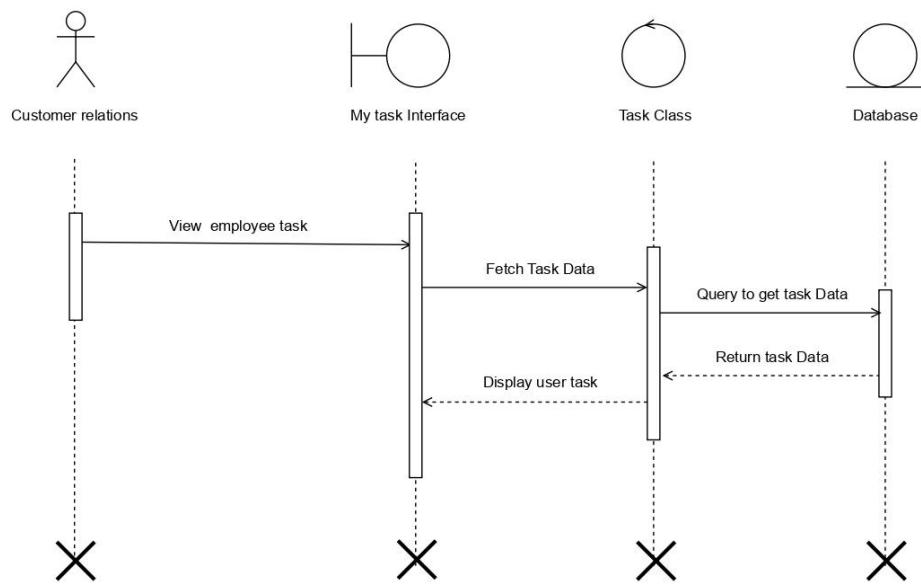


Figure 16 : Sequence diagram 13

View assigned task

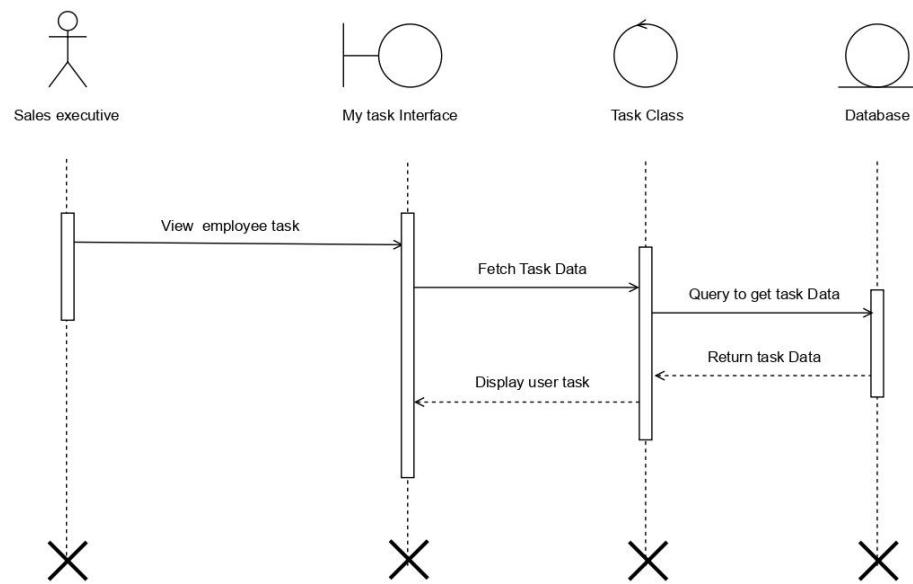


Figure 17 : Sequence diagram 14

View assigned task

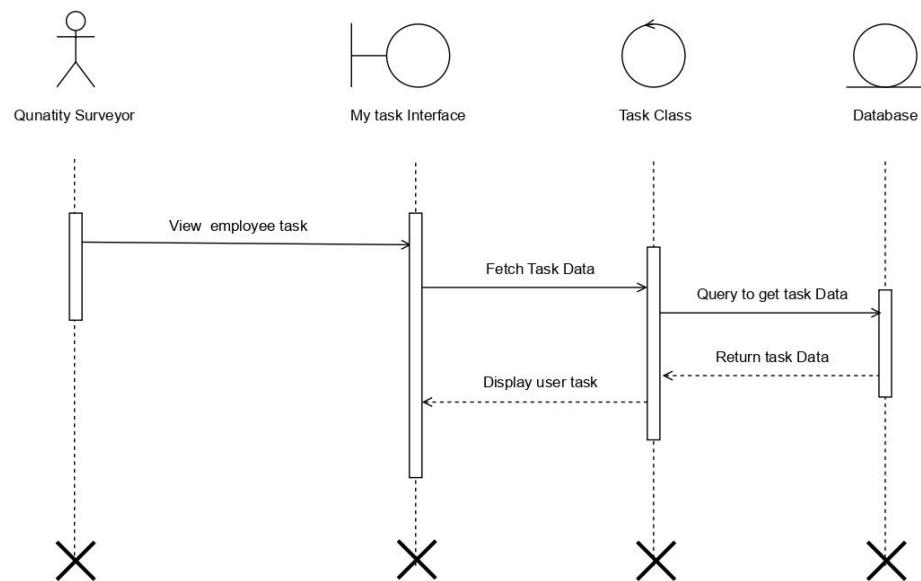


Figure 18 : Sequence diagram 15

View assigned task

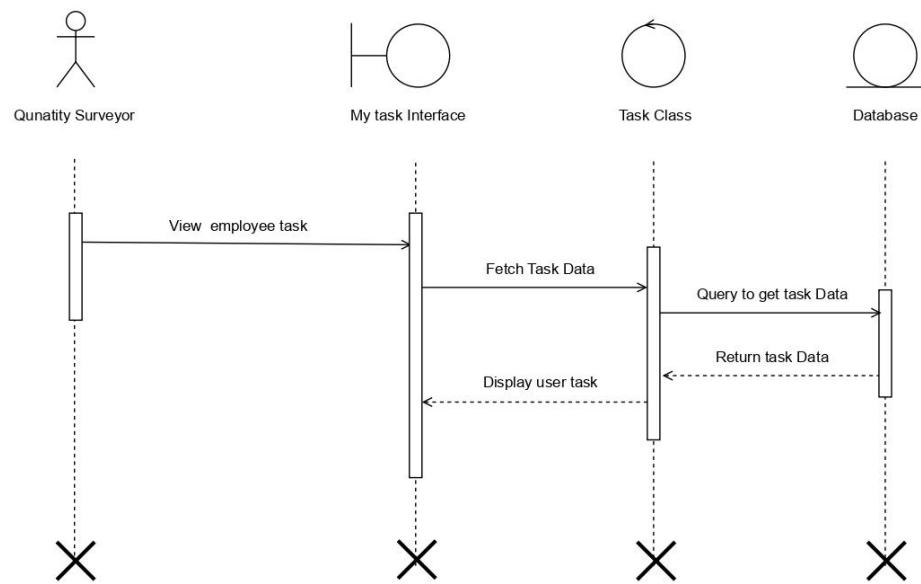


Figure 19 : Sequence diagram 16

View assigned task

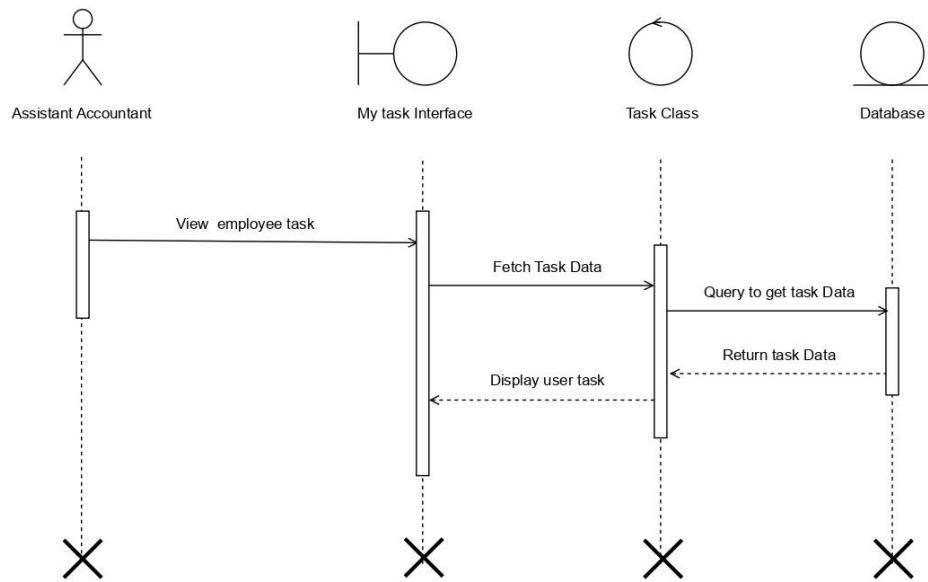


Figure 20 : Sequence diagram 17

View assigned task

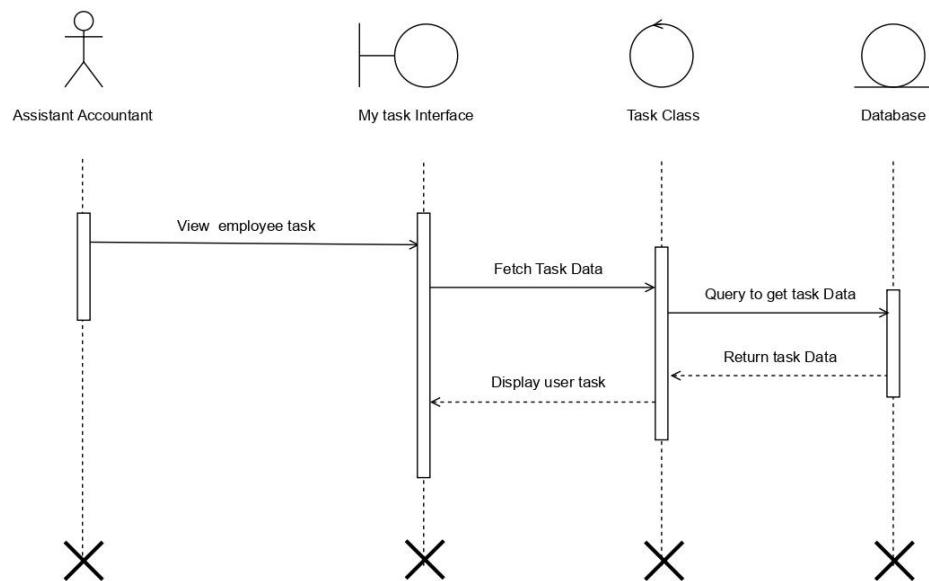


Figure 21 : Sequence diagram 18

View assigned task

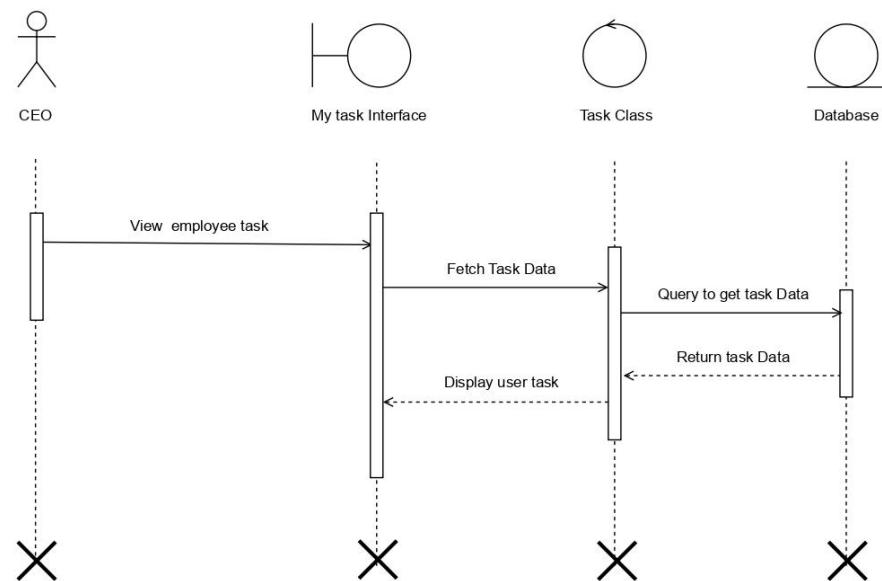


Figure 22 : Sequence diagram 19

View employee attendance

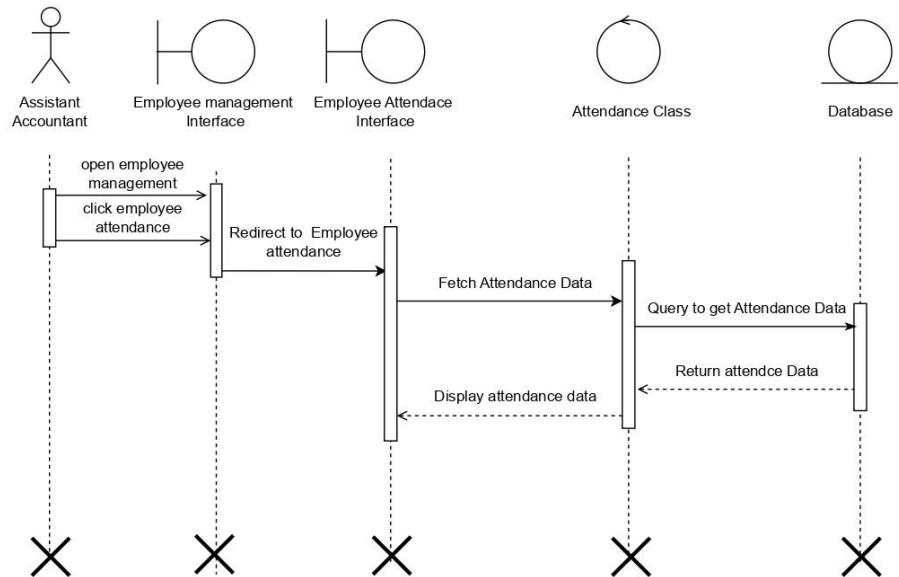


Figure 23 : Sequence diagram 20

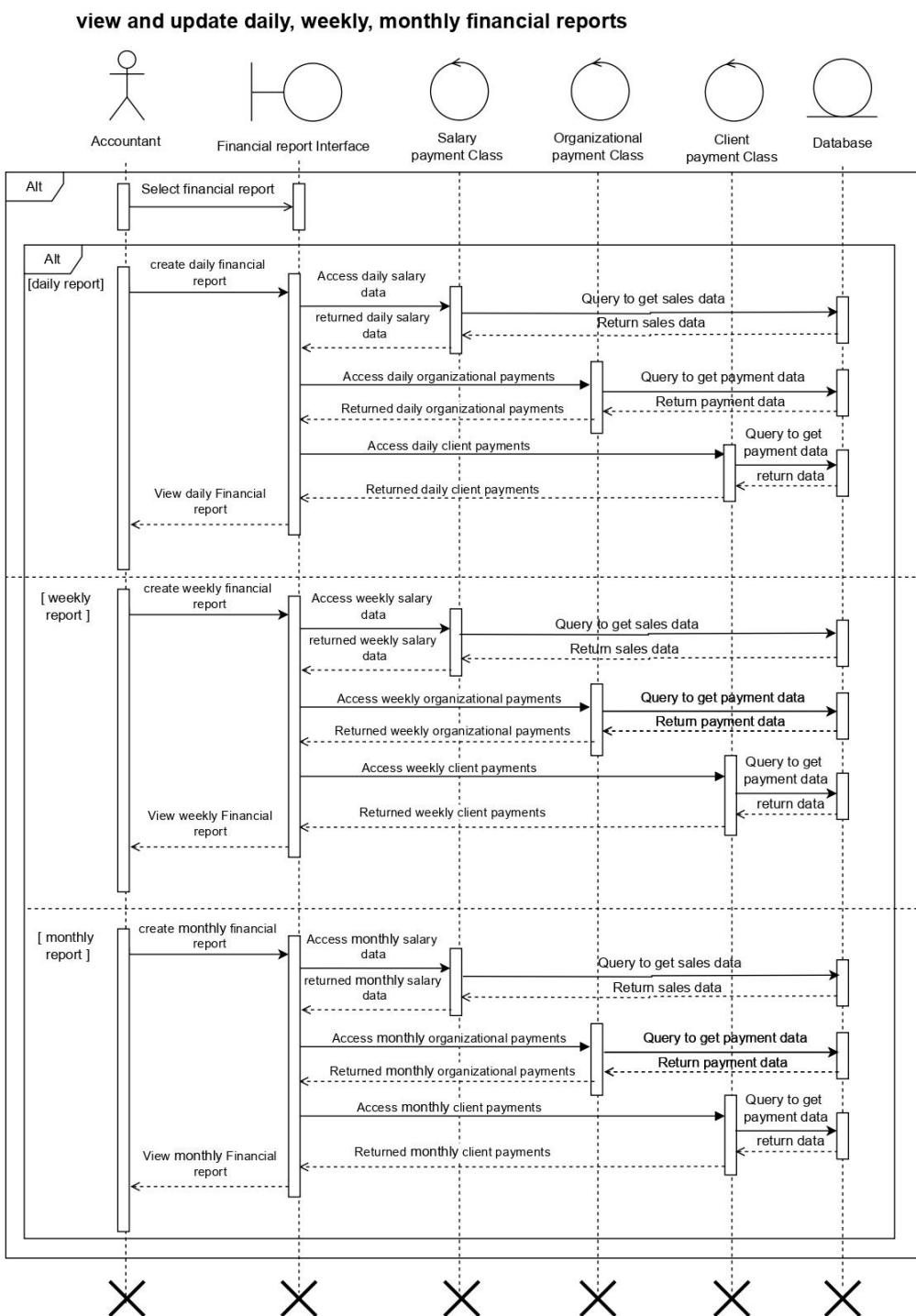


Figure 24 : Sequence diagram 21

View, update salary payment

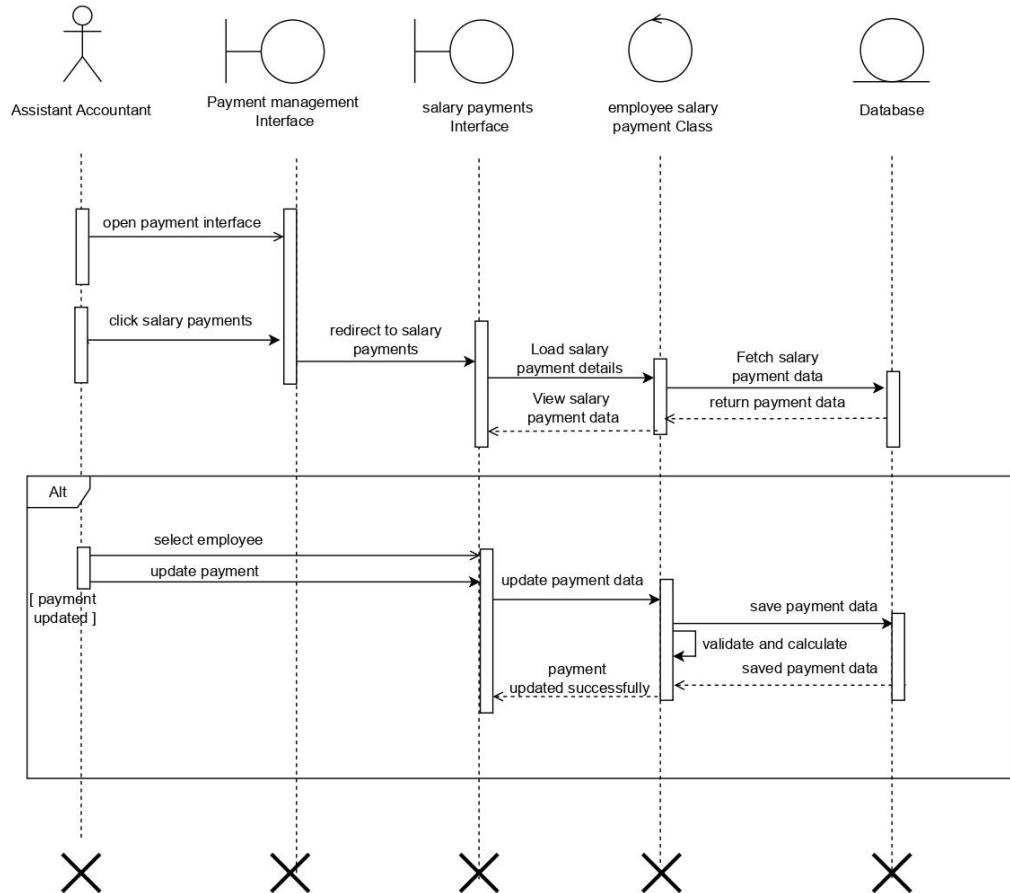


Figure 25 : Sequence diagram 22

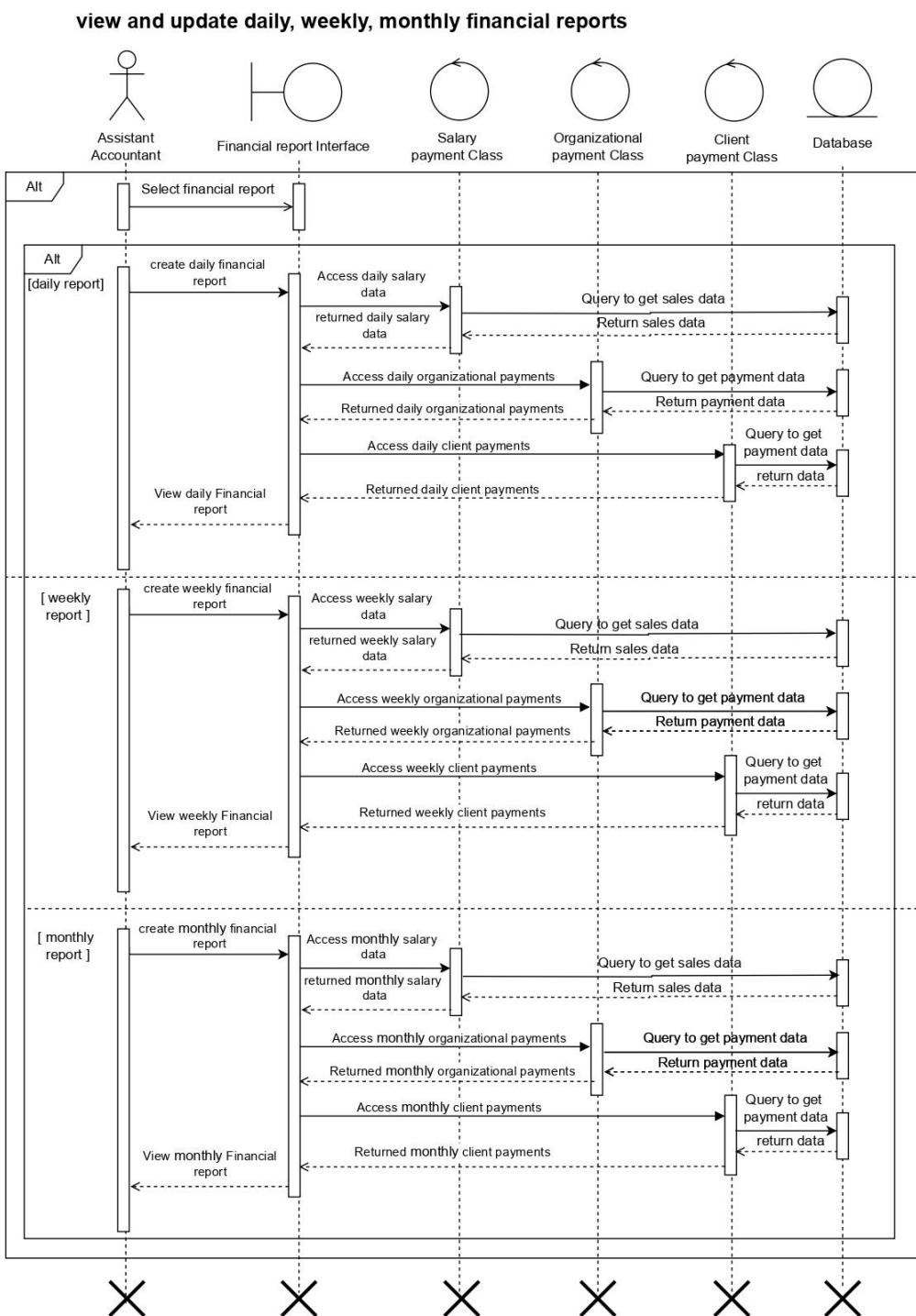


Figure 26 : Sequence diagram 23

View salary information

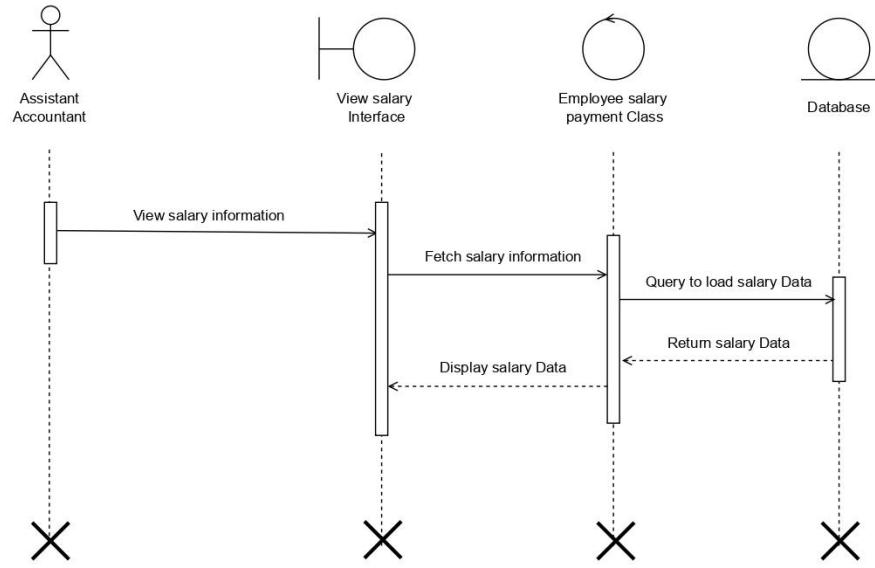


Figure 27 : Sequence diagram 24

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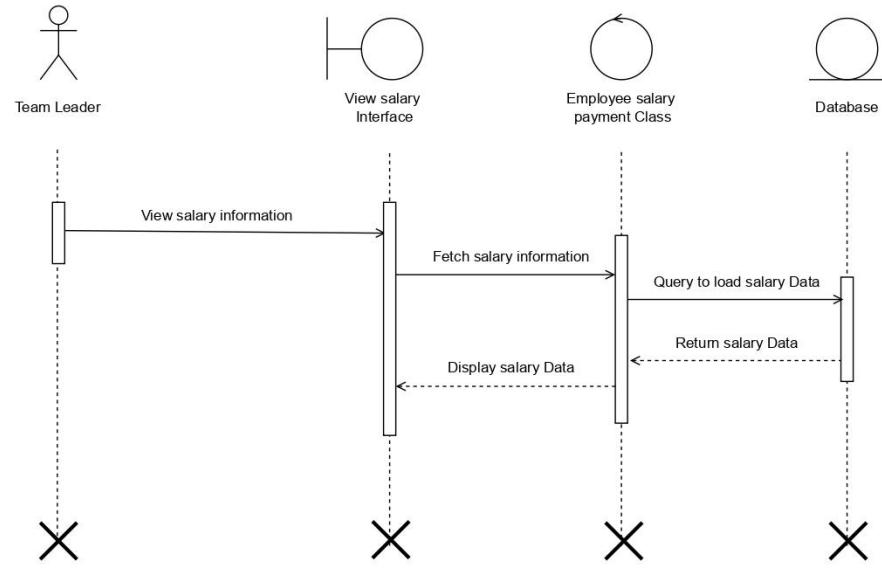


Figure 28 : Sequence diagram 25

View salary information

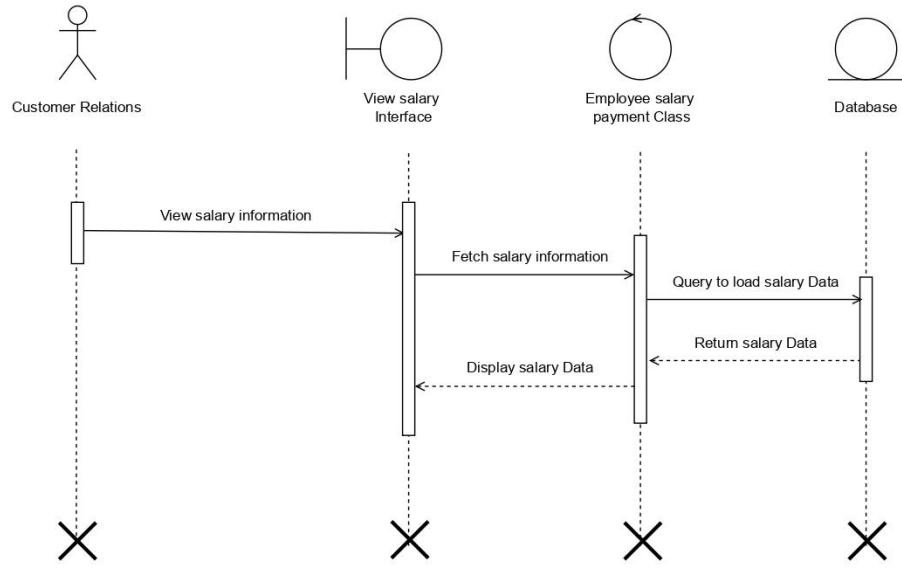


Figure 29 : Sequence diagram 26

View salary information

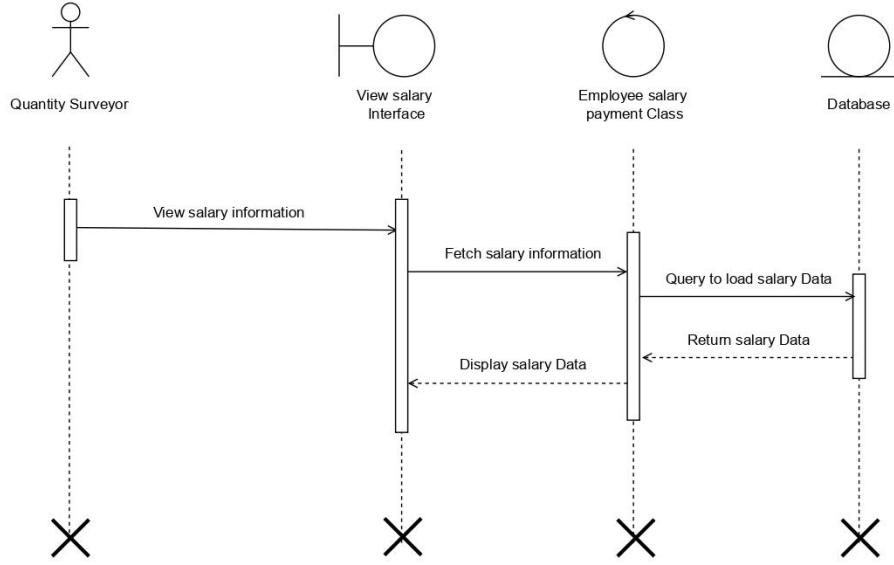


Figure 30 : Sequence diagram 27

View salary information

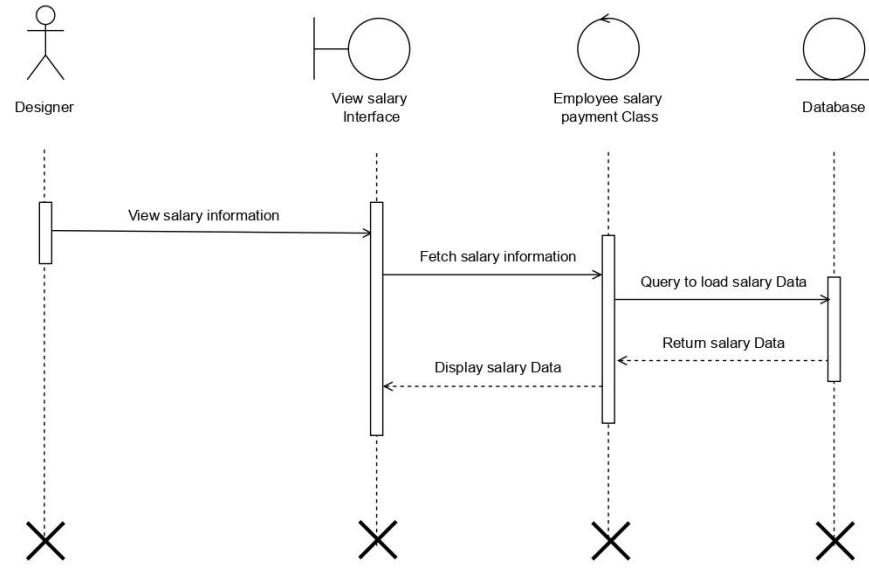


Figure 31 : Sequence diagram 28

View salary information

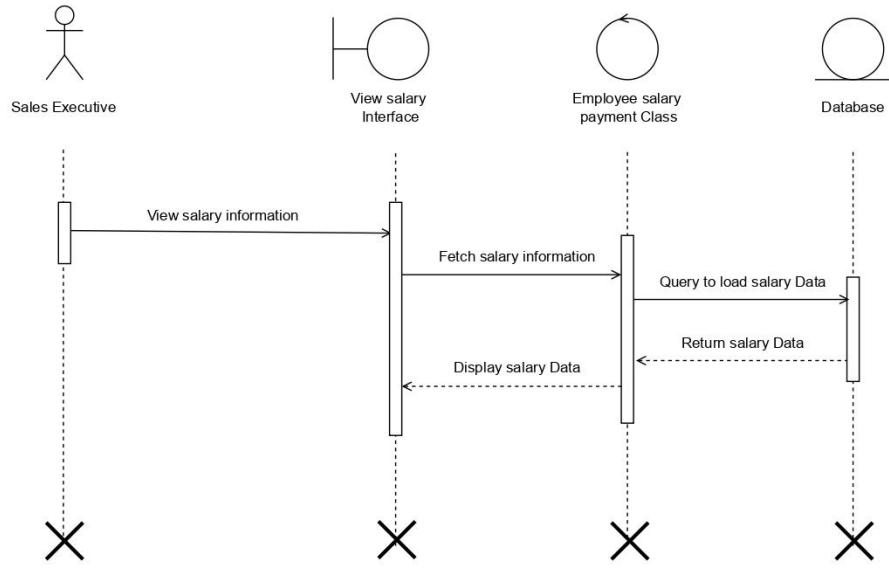


Figure 32 : Sequence diagram 29

View salary information

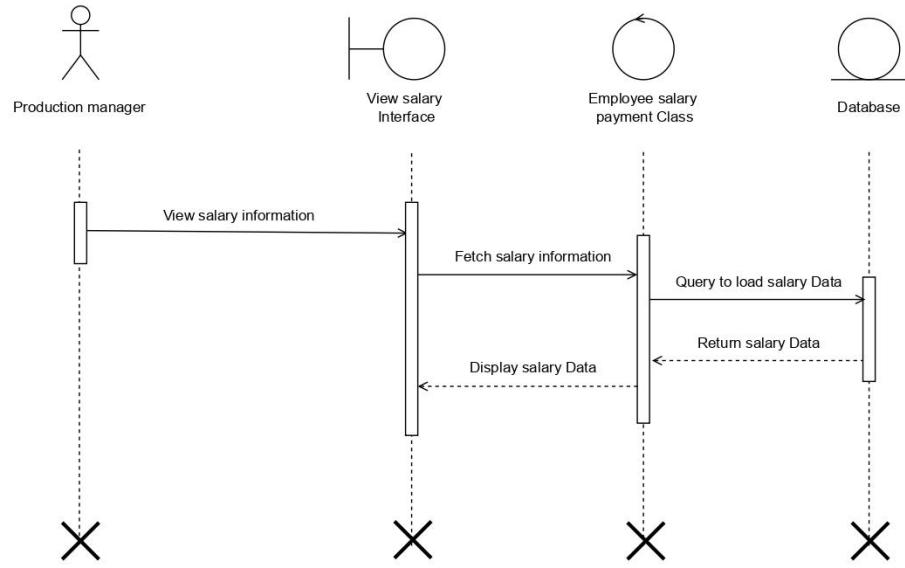


Figure 33 : Sequence diagram 30

View salary information

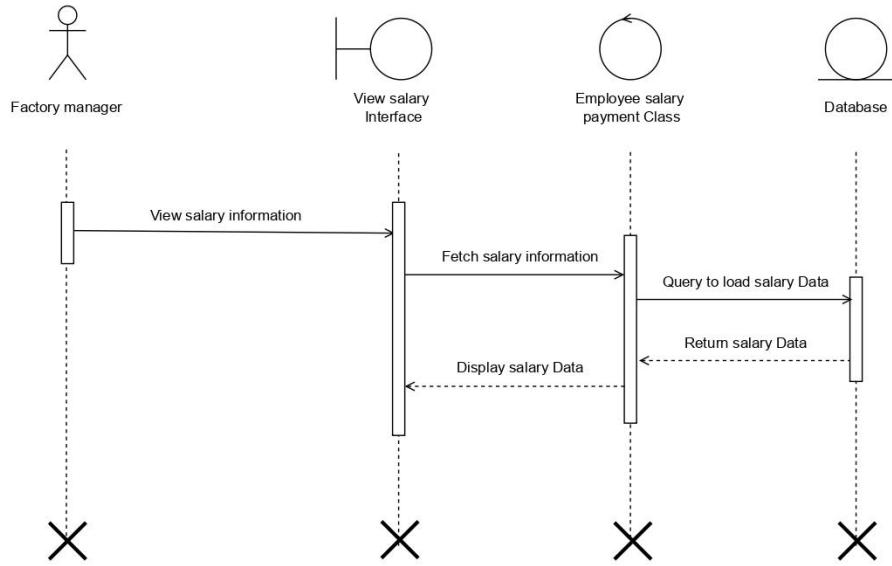


Figure 34 : Sequence diagram 31

View salary information

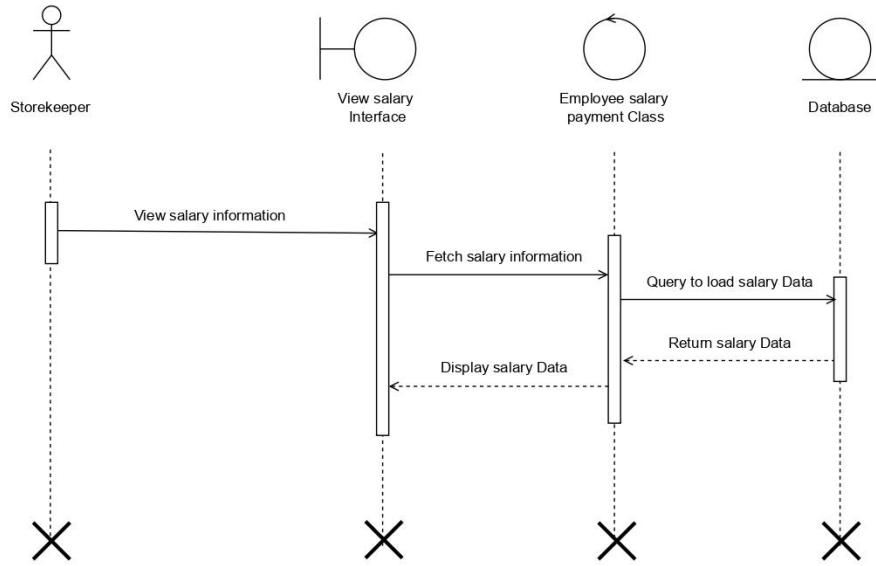


Figure 35 : Sequence diagram 32

View salary information

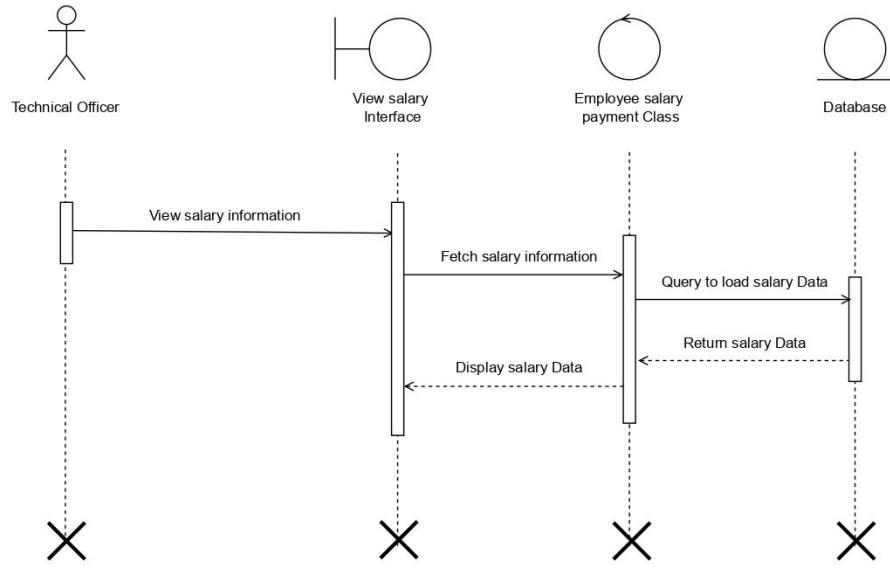


Figure 36 : Sequence diagram 33

View salary information

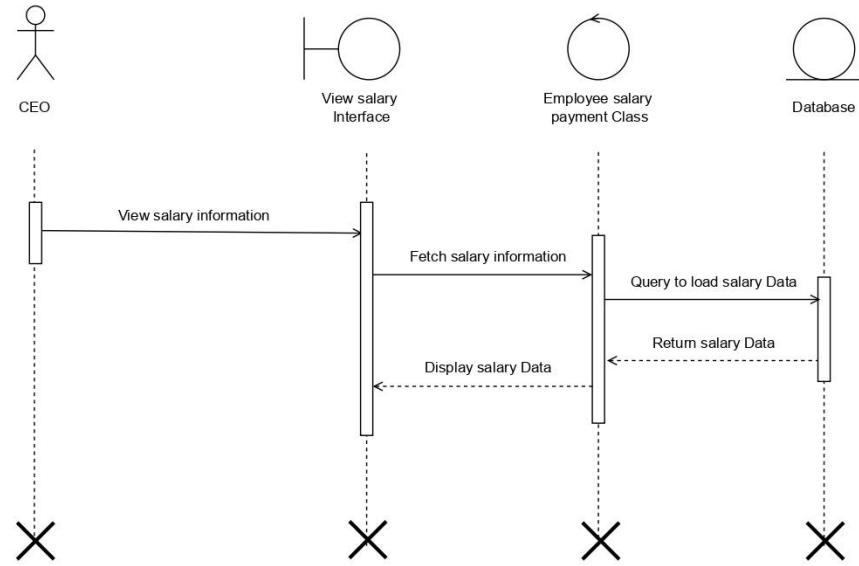


Figure 37 : Sequence diagram 34

View sales Information

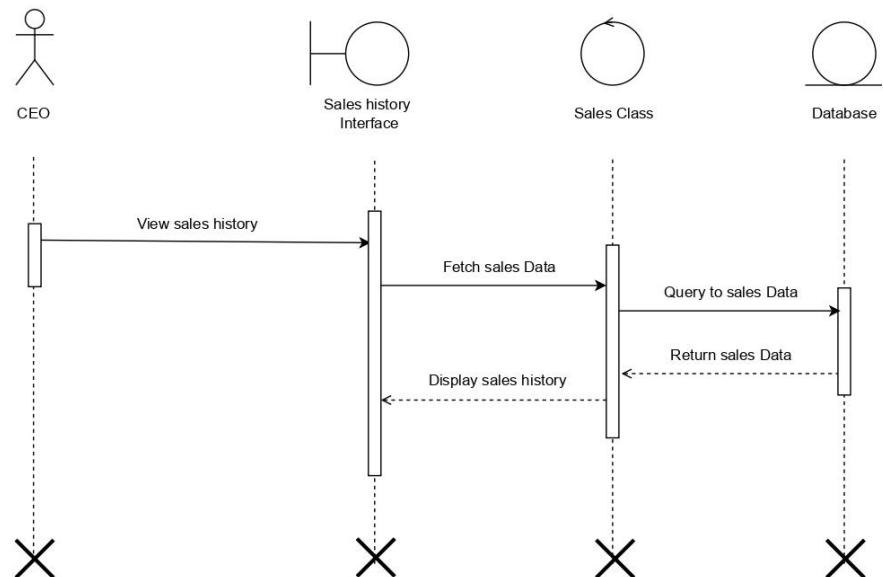


Figure 38 : Sequence diagram 35

View sales Information

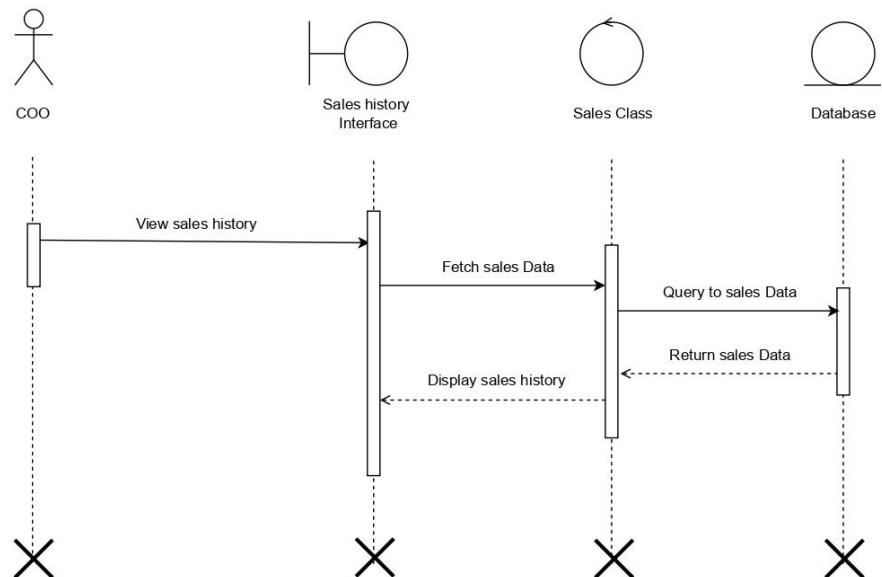


Figure 39 : Sequence diagram 36

View employee attendance

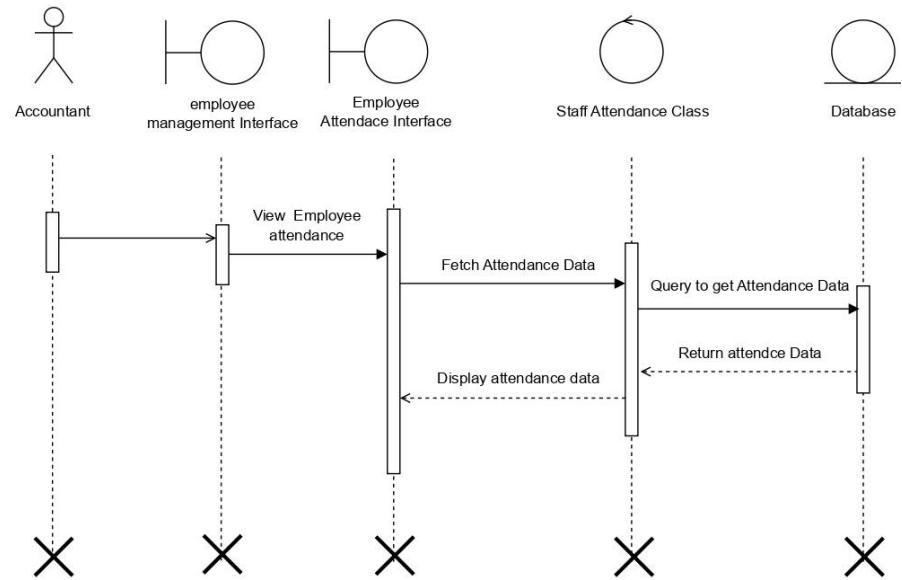


Figure 40 : Sequence diagram 37

View employee attendance

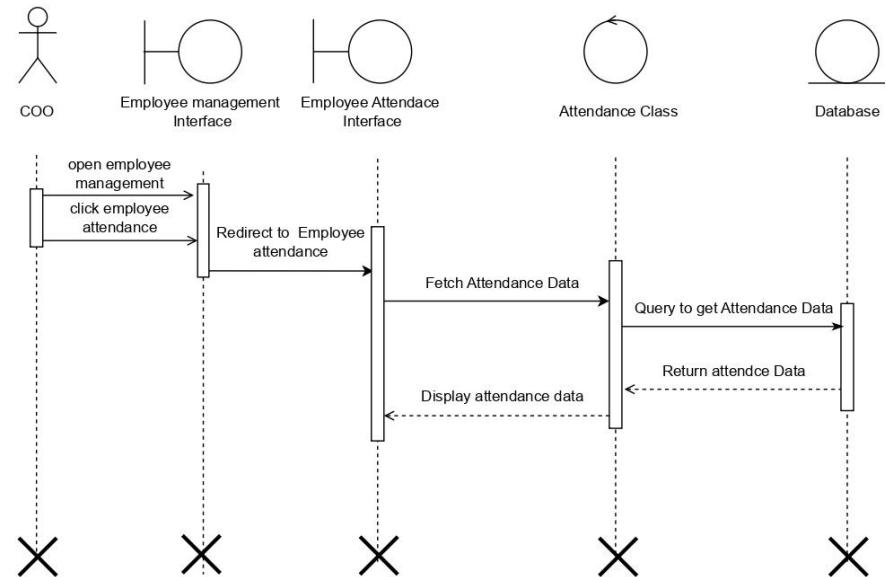


Figure 41 : Sequence diagram 38

View employee Profile

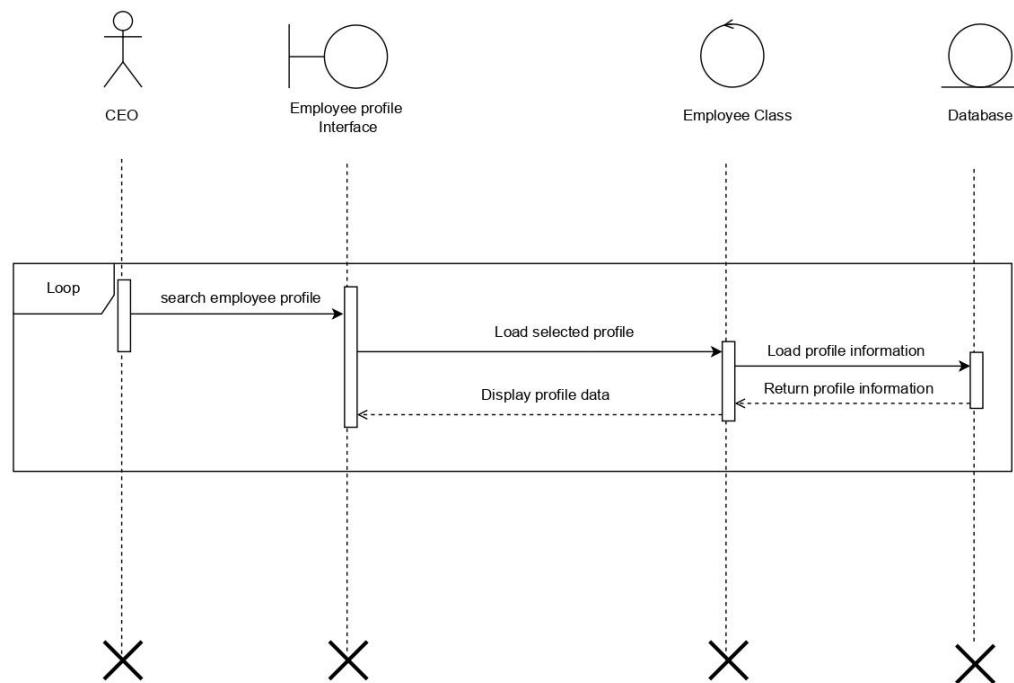


Figure 42 : Sequence diagram 39

View employee Profile

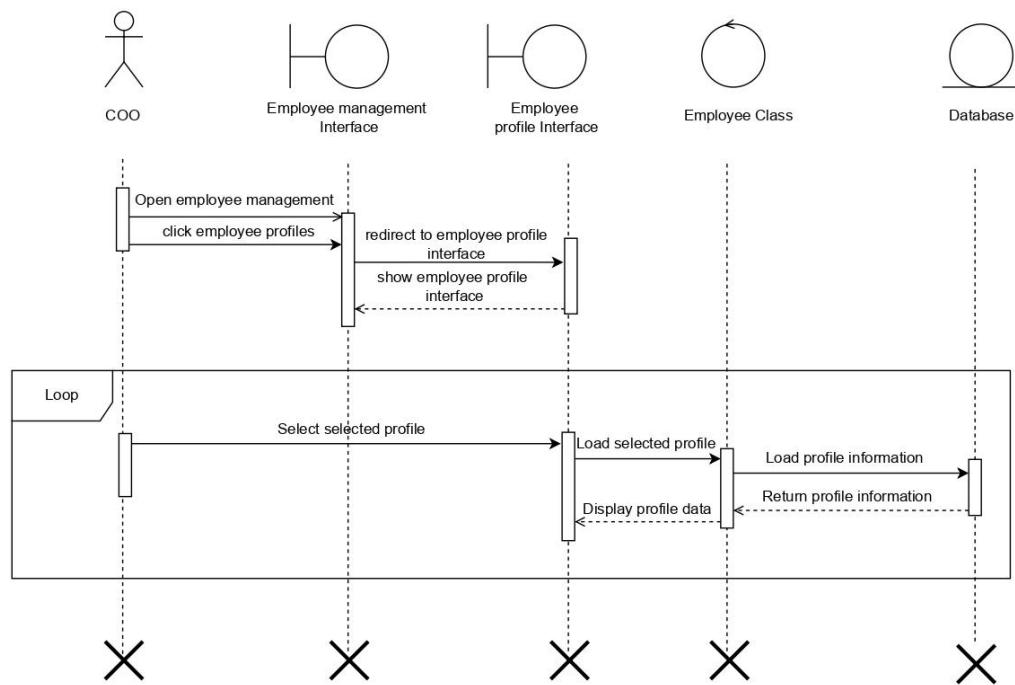


Figure 43 : Sequence diagram 40

View inventory request

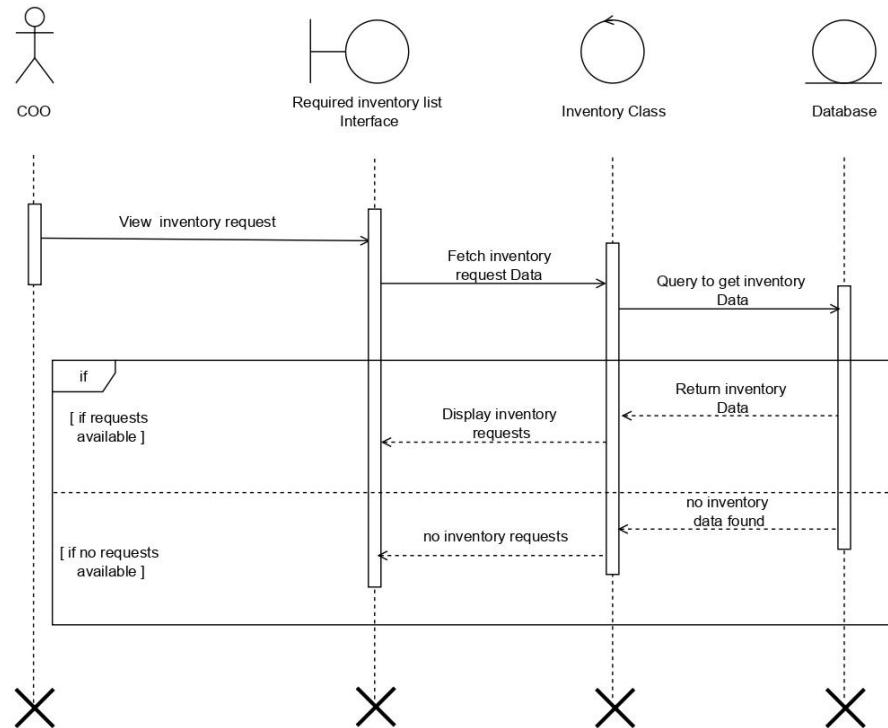


Figure 44 : Sequence diagram 41

View supplier Profile

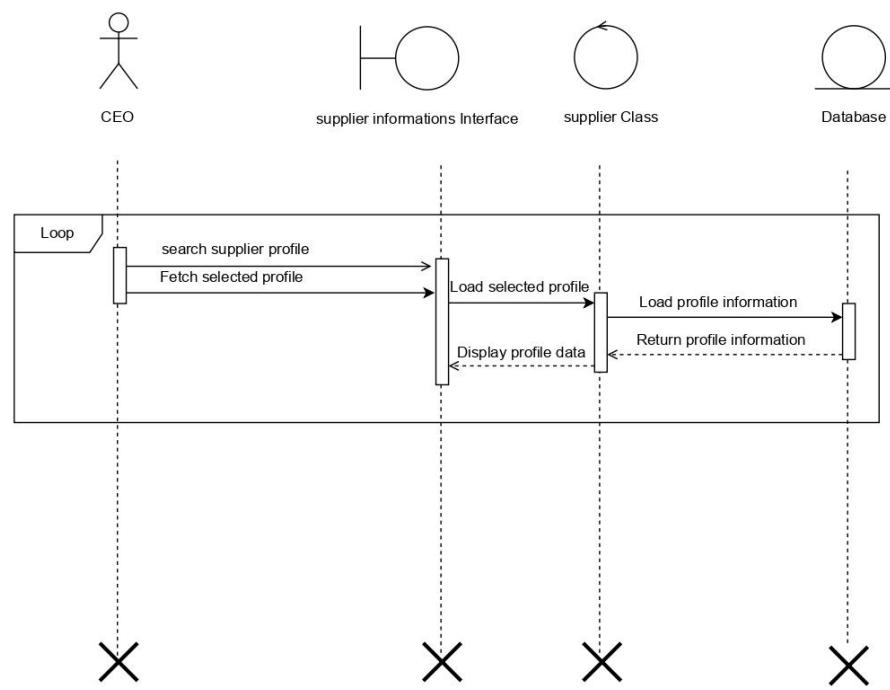


Figure 45 : Sequence diagram 42

View assigned task

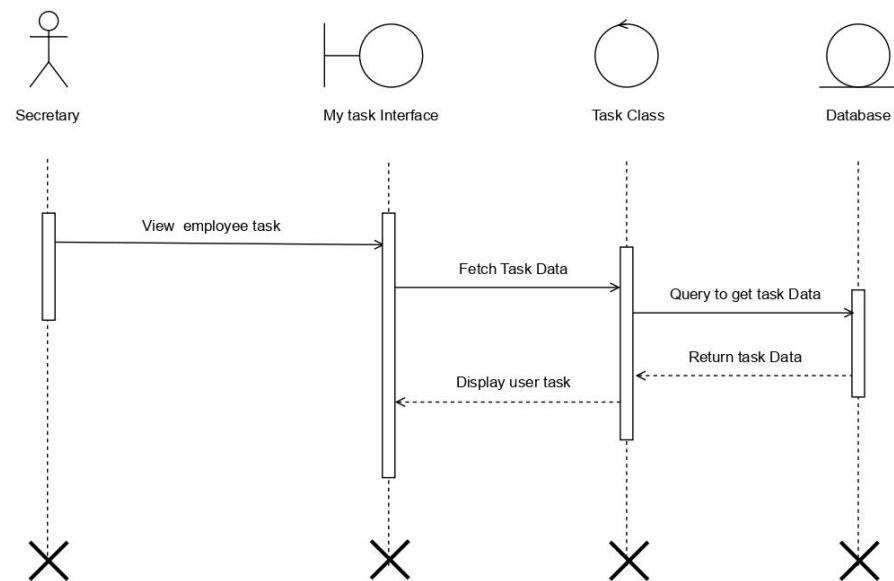


Figure 46 : Sequence diagram 43

View assigned task

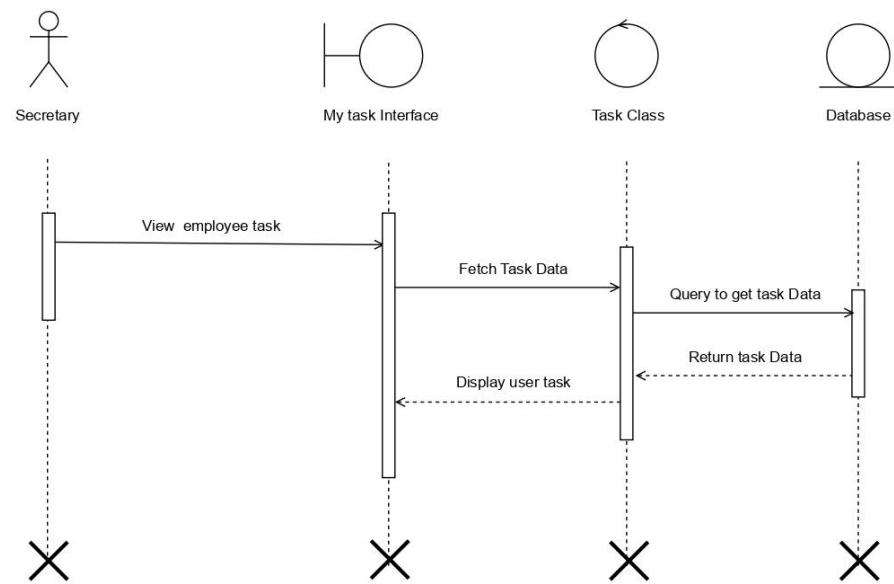


Figure 47 : Sequence diagram 44

View assigned task

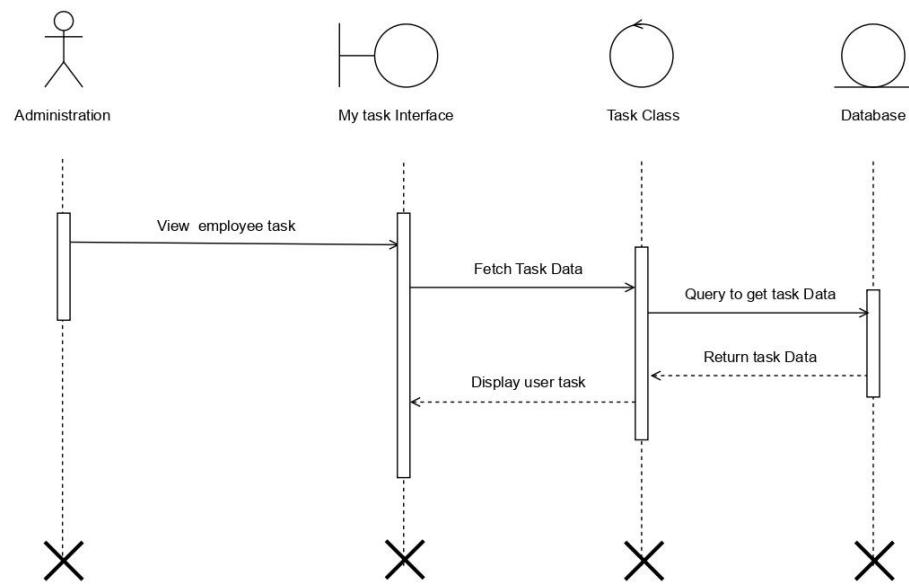


Figure 48 : Sequence diagram 45

View assigned task

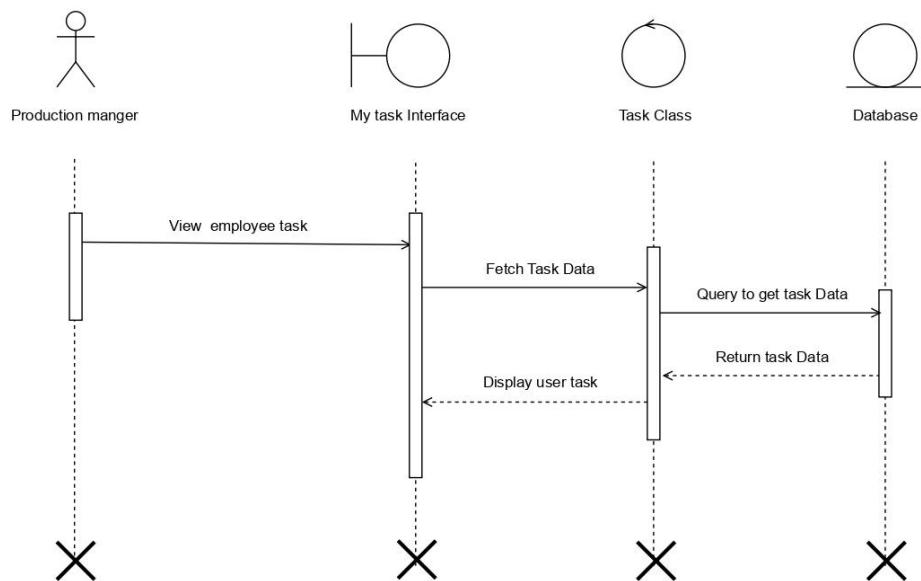


Figure 49 : Sequence diagram 46

View assigned task

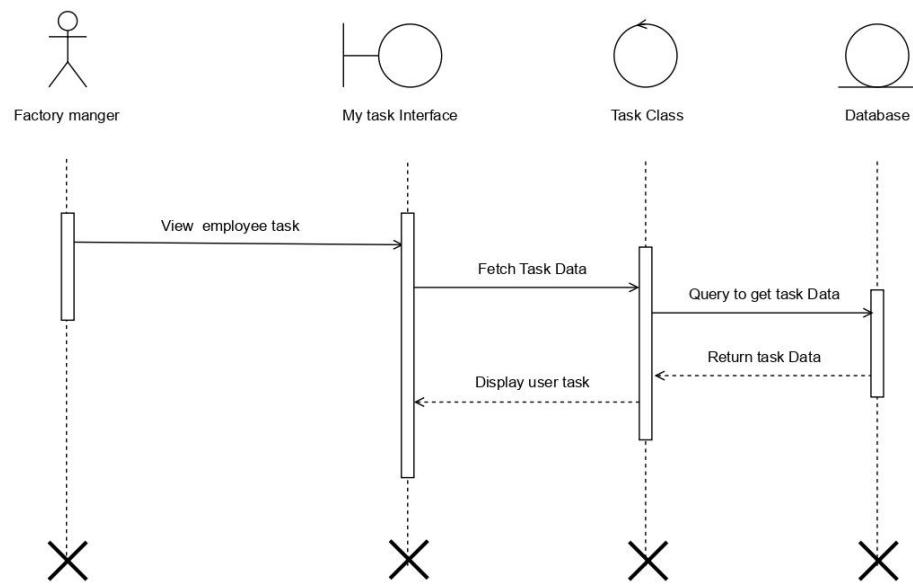


Figure 50 : Sequence diagram 47

View assigned task

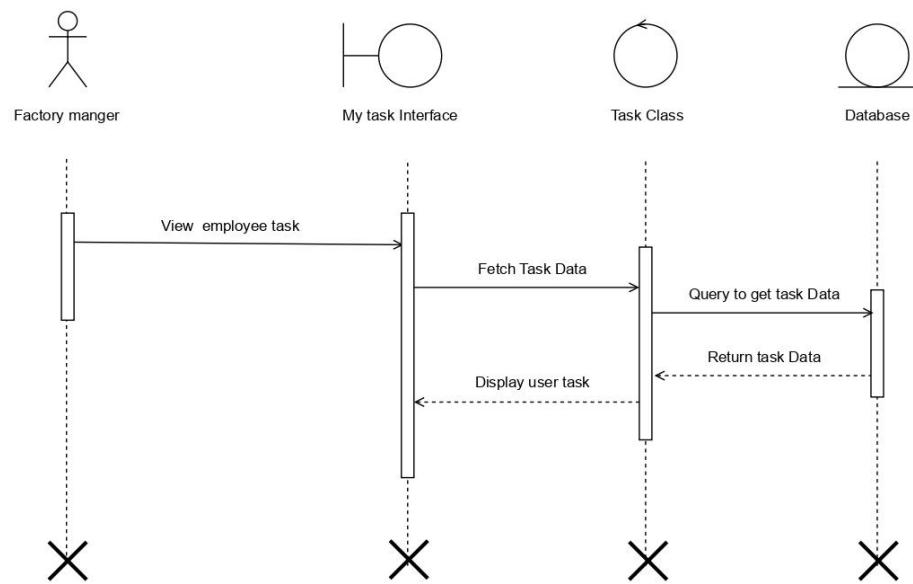


Figure 51 : Sequence diagram 48

View assigned task

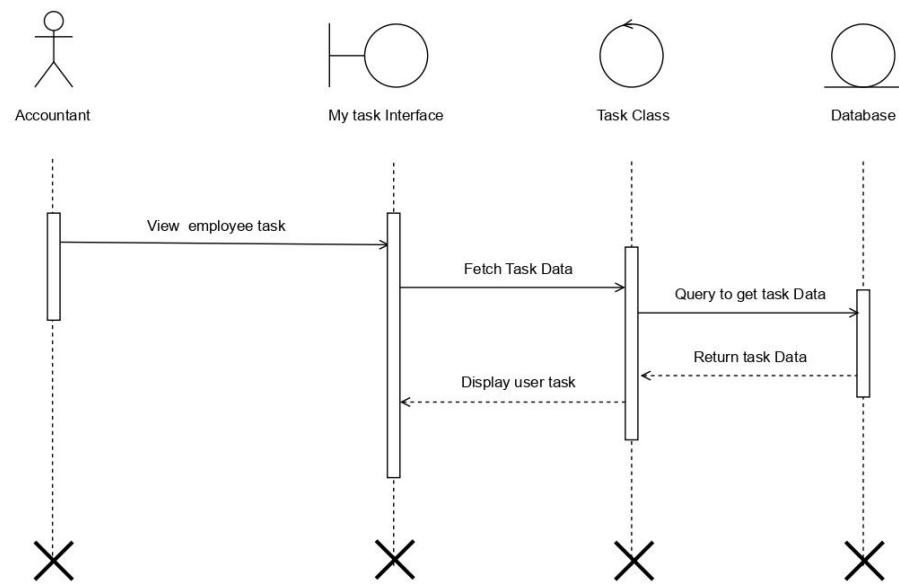


Figure 52 : Sequence diagram 49

View assigned task

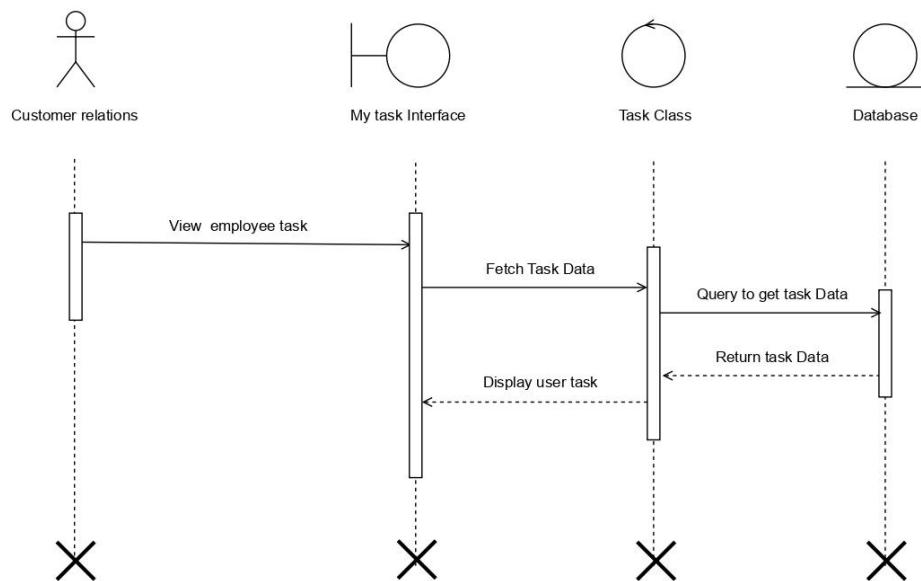


Figure 53 : Sequence diagram 50

View user profile

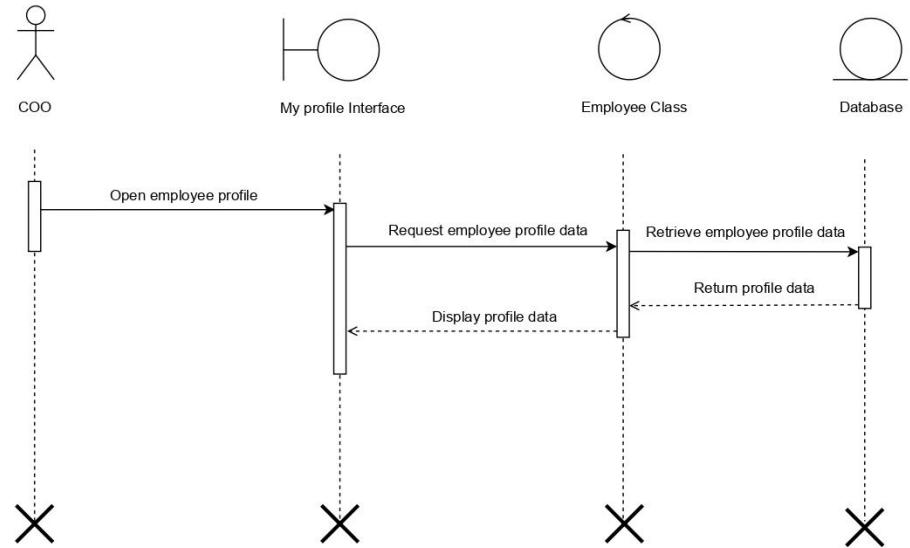


Figure 54 : Sequence diagram 51

View user profile

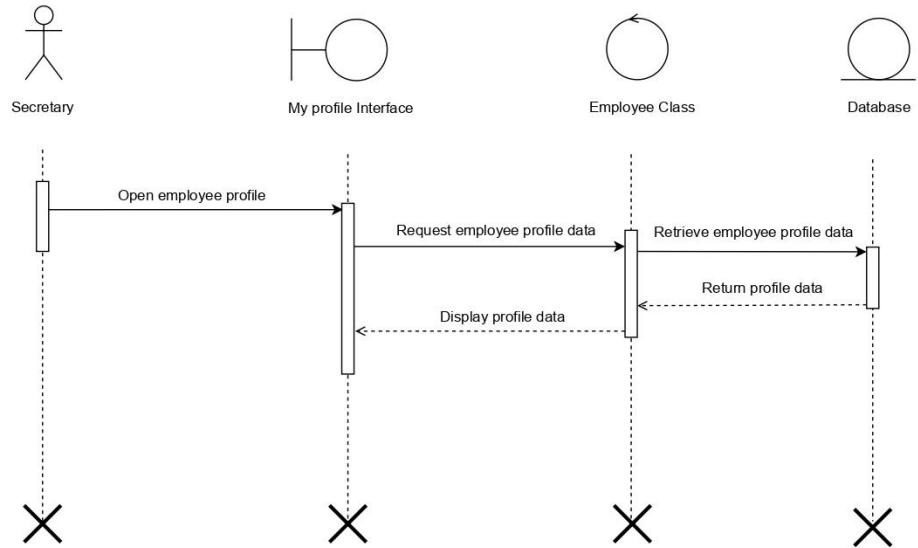


Figure 55 : Sequence diagram 52

View user profile

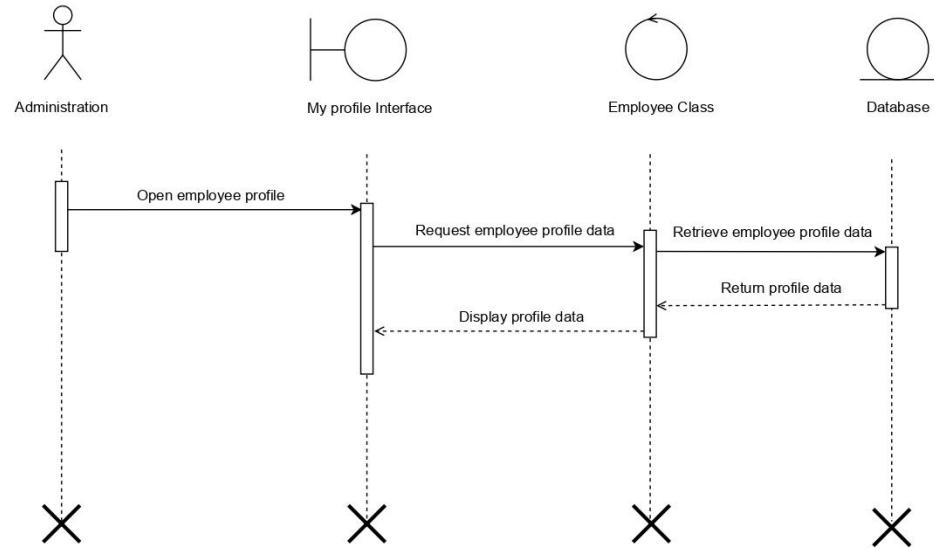


Figure 56 : Sequence diagram 53

View user profile

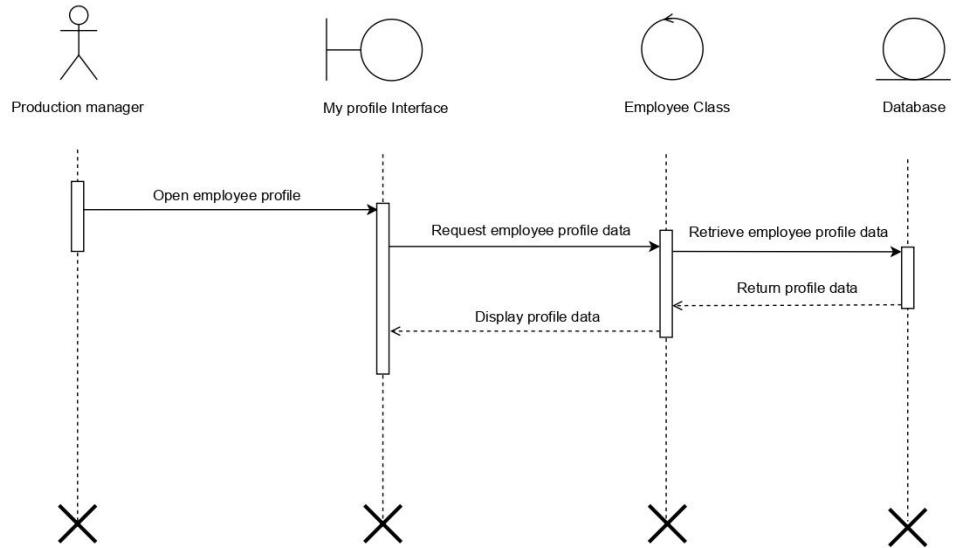


Figure 57 : Sequence diagram 54

View user profile

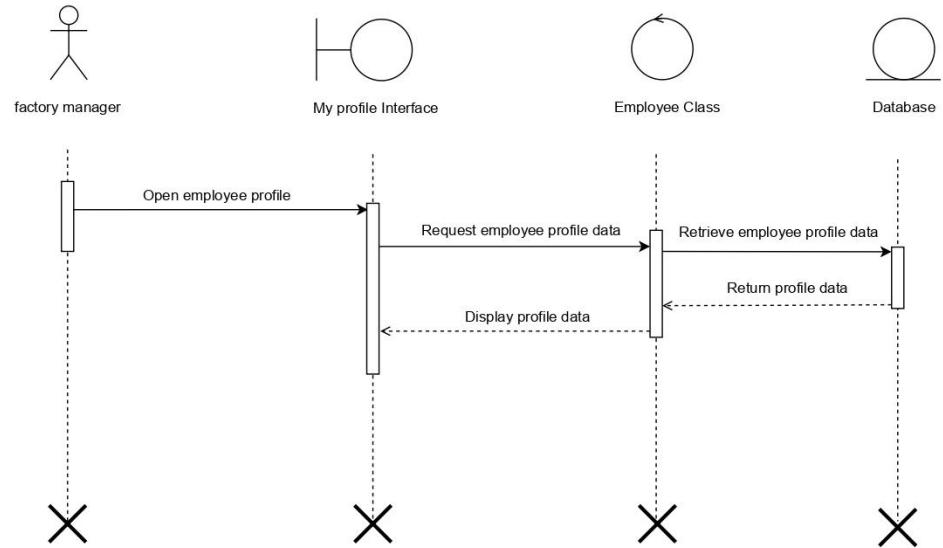


Figure 58 : Sequence diagram 55

View user profile

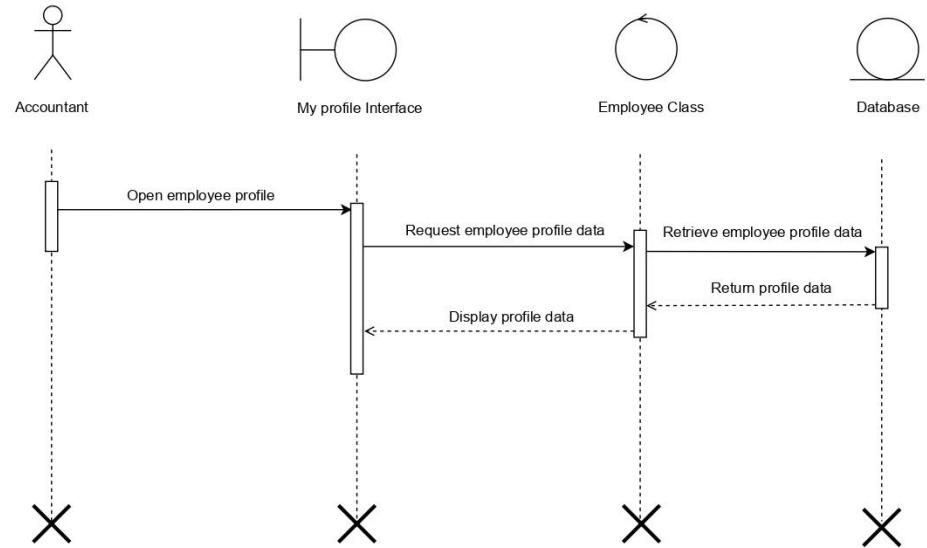


Figure 59 : Sequence diagram 56

View user profile

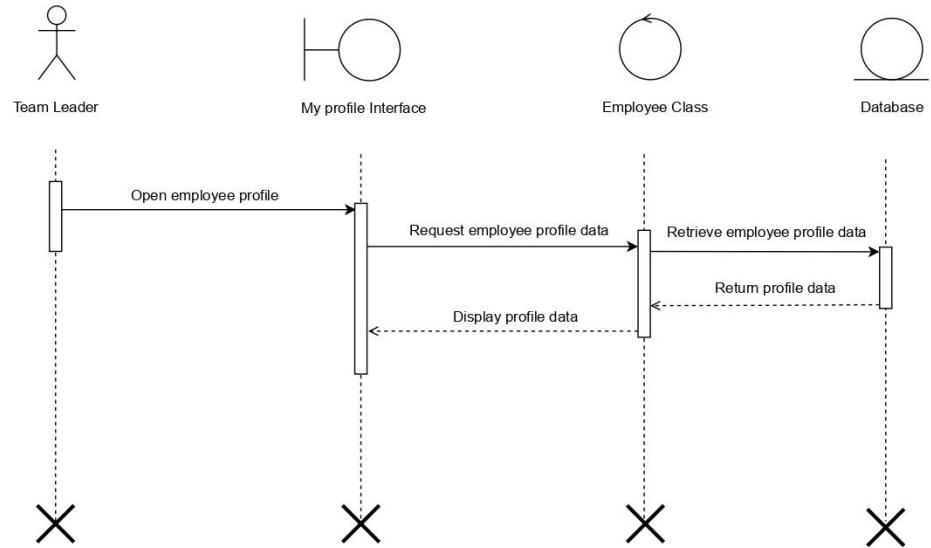


Figure 60 : Sequence diagram 57

View user profile

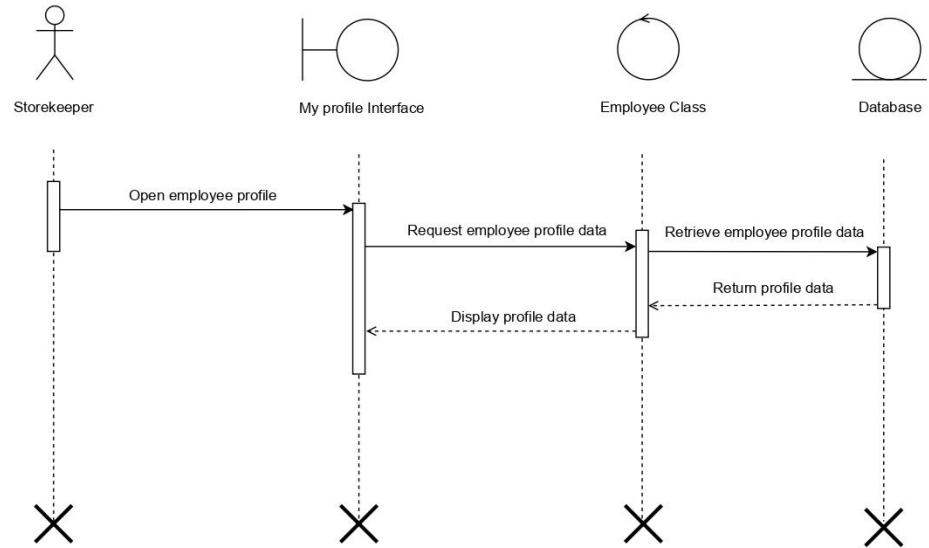


Figure 61 : Sequence diagram 58

View user profile

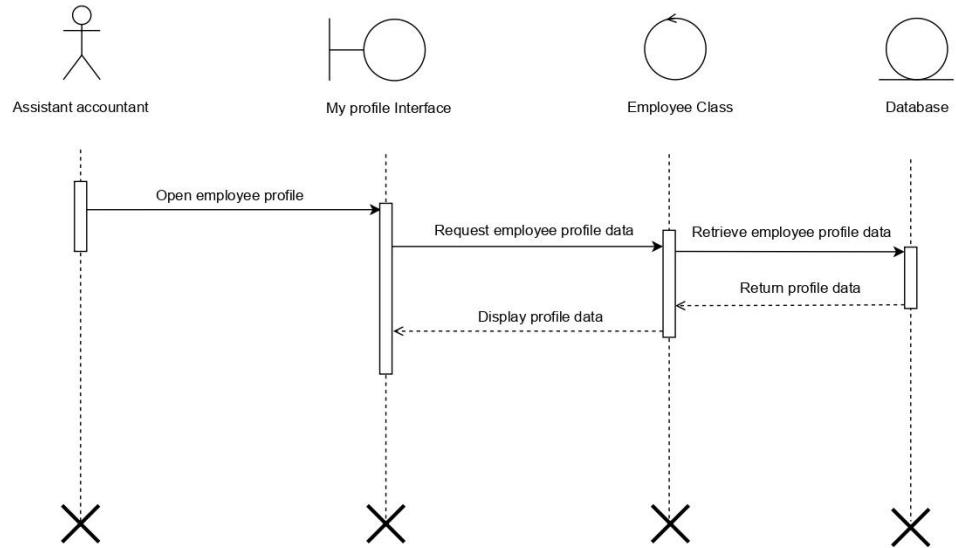


Figure 62 : Sequence diagram 59

View user profile

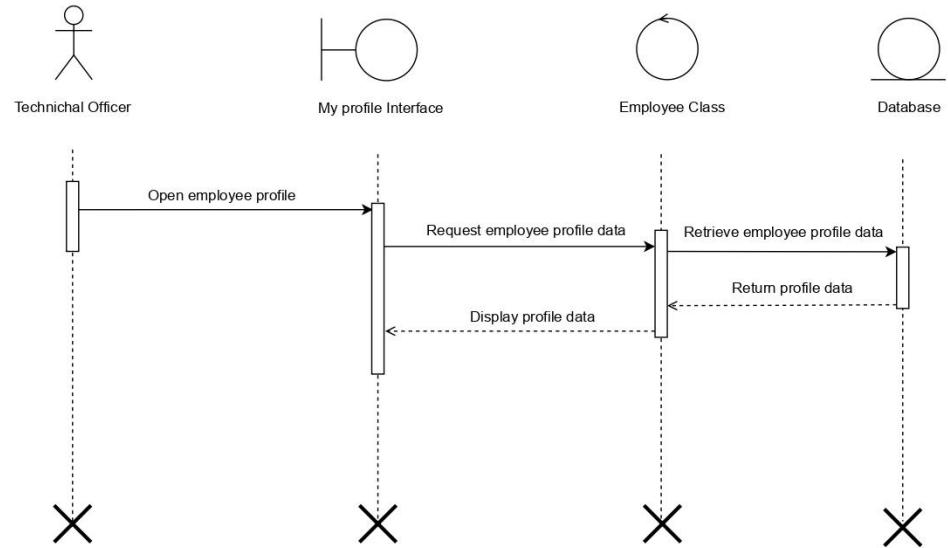


Figure 63 : Sequence diagram 60

View user profile

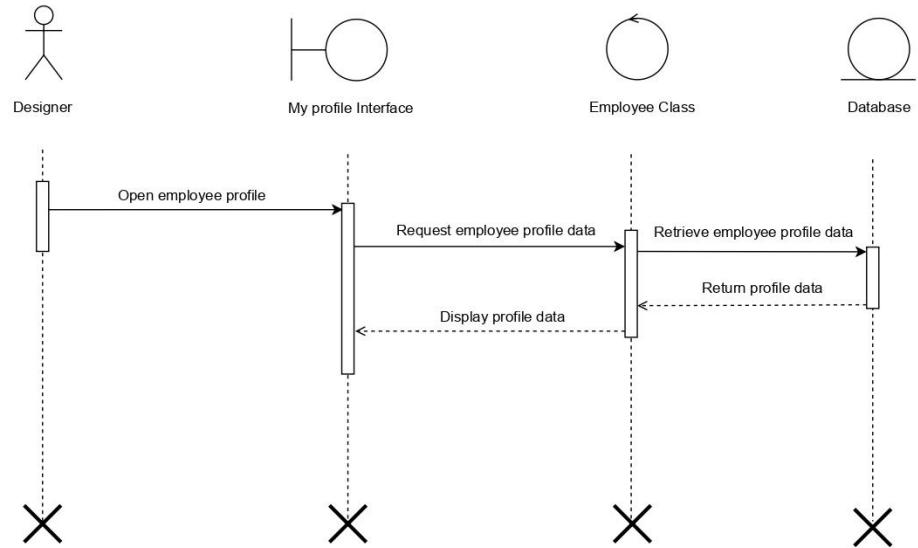


Figure 64 : Sequence diagram 61

View user profile

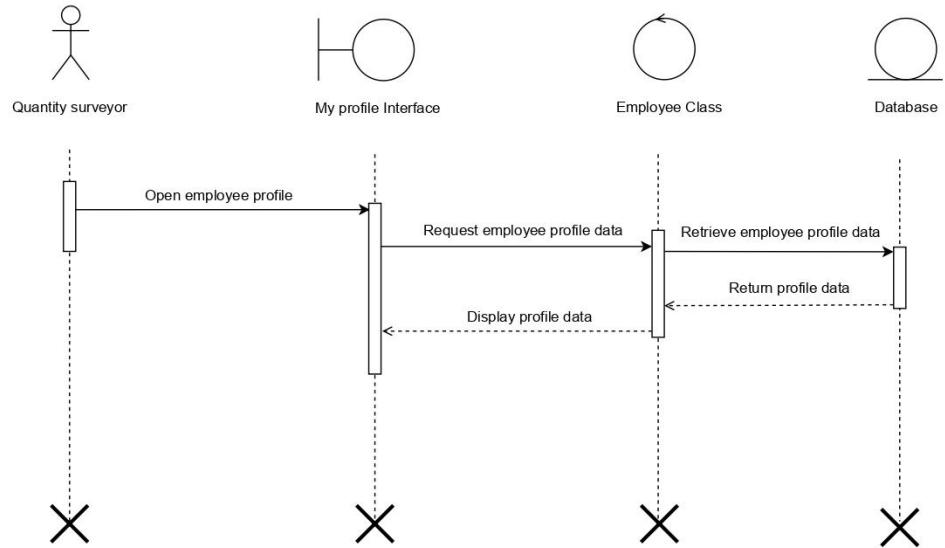


Figure 65 : Sequence diagram 62

View user profile

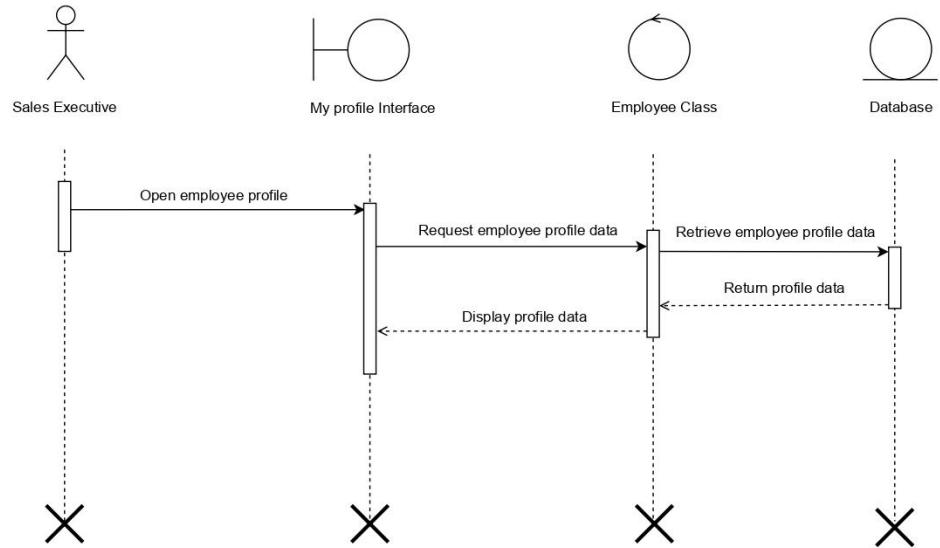


Figure 66 : Sequence diagram 63

View user profile

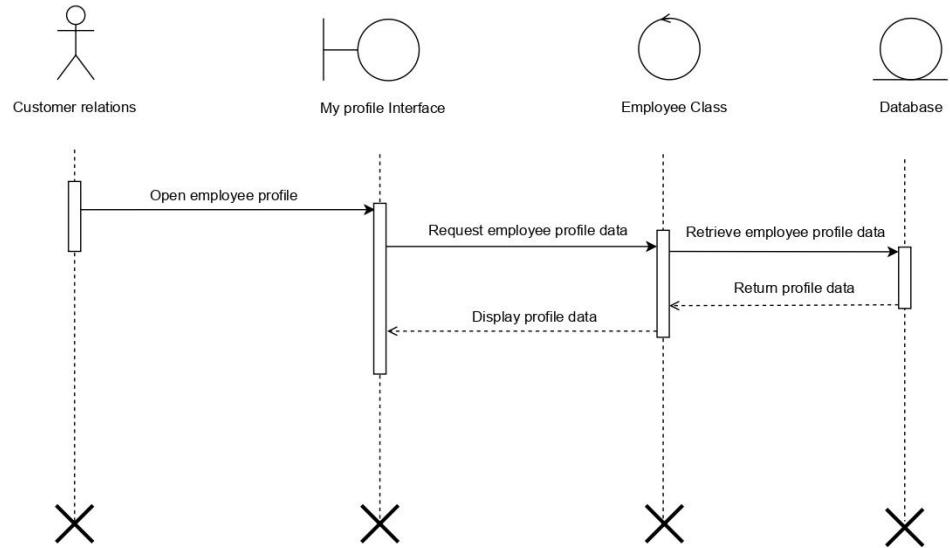


Figure 67 : Sequence diagram 64

View user profile

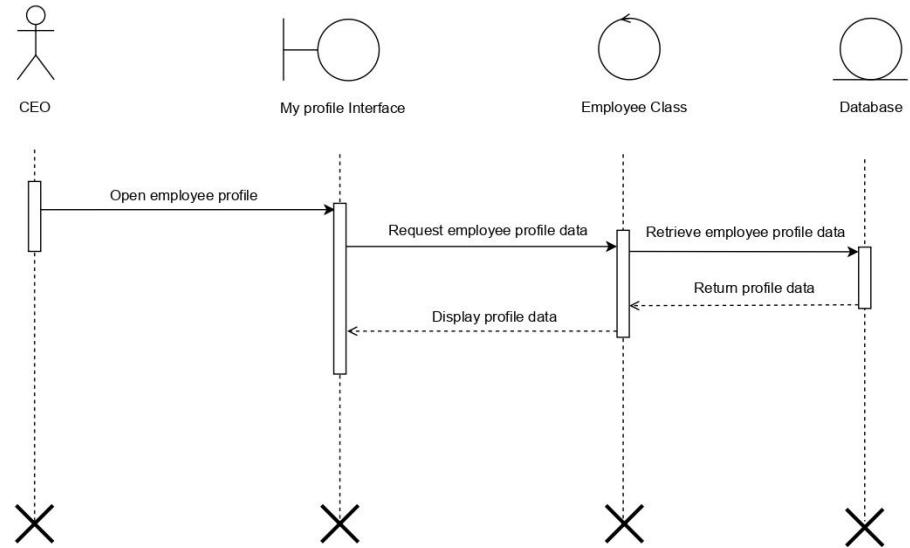


Figure 68 : Sequence diagram 65

View inventory informations

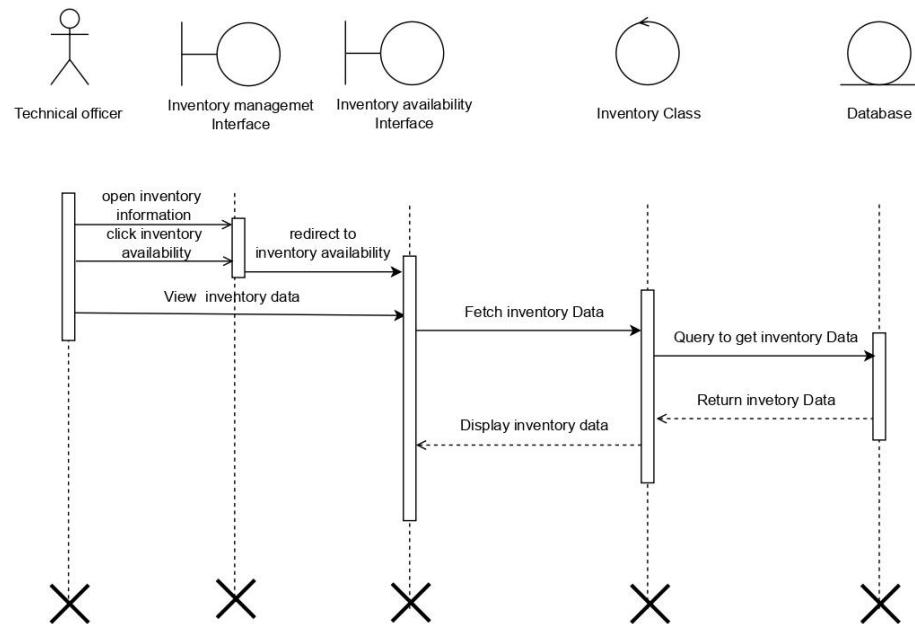


Figure 69 : Sequence diagram 66

View inventory infomations

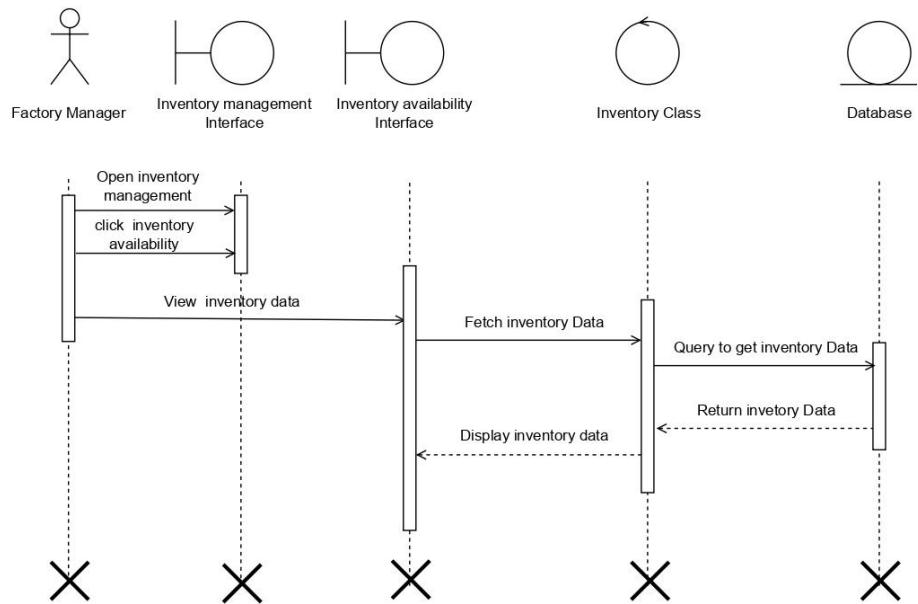


Figure 70 : Sequence diagram 67

View meeting information

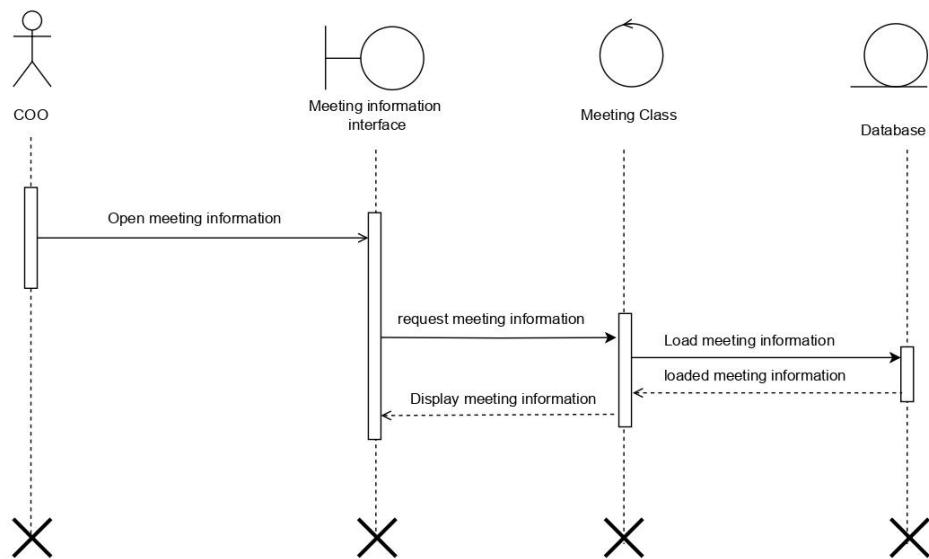


Figure 71 : Sequence diagram 68

Generate meeting report

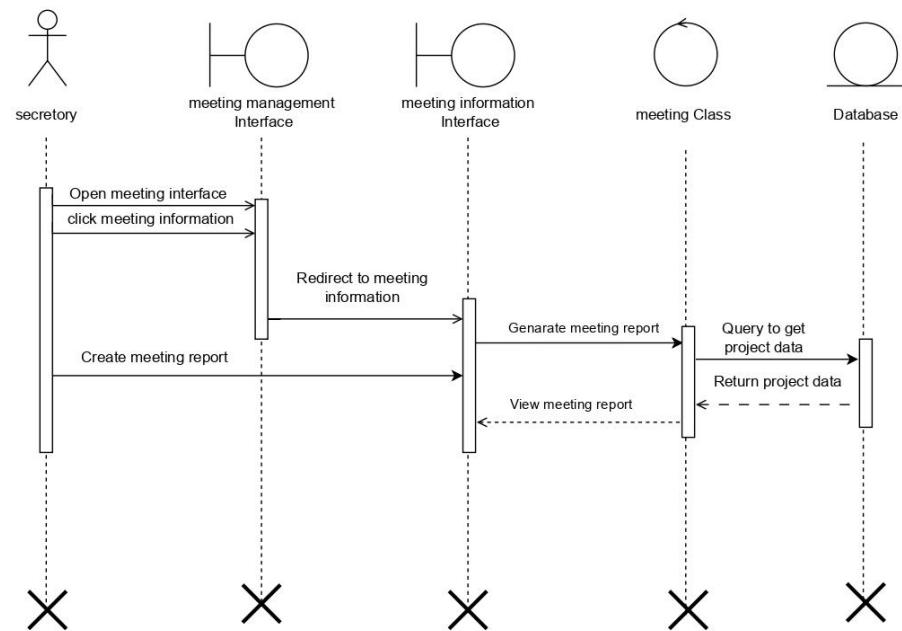


Figure 72 : Sequence diagram 69

View organizational payment

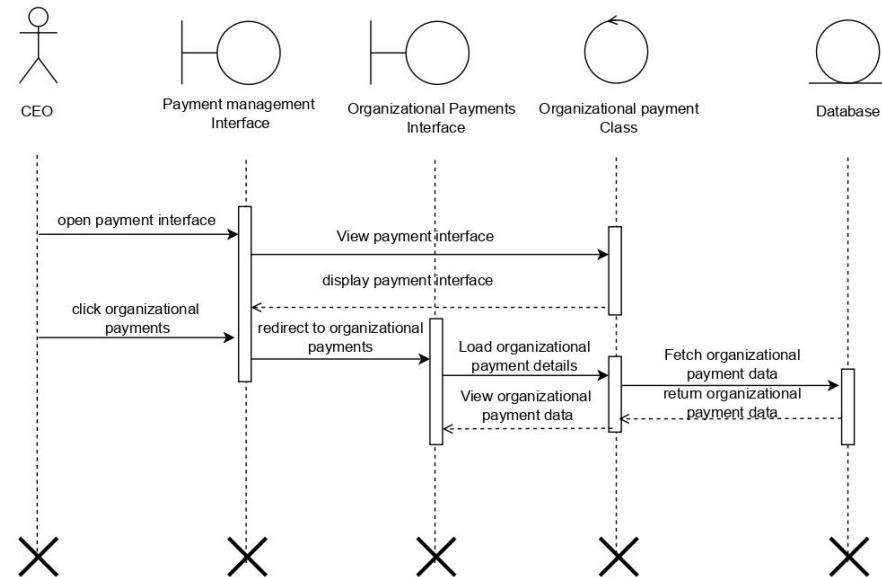


Figure 73 : Sequence diagram 70

View organizational payment

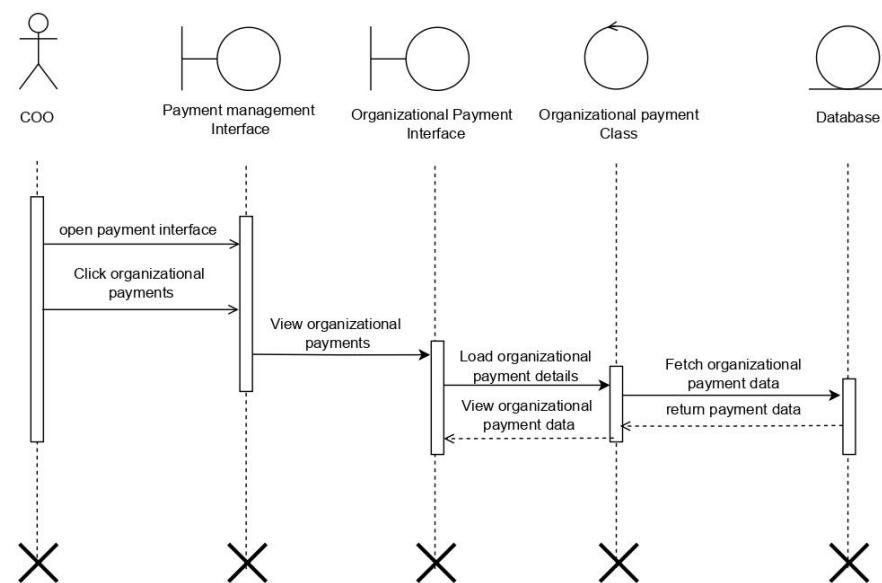


Figure 74 : Sequence diagram 71

View salary payment

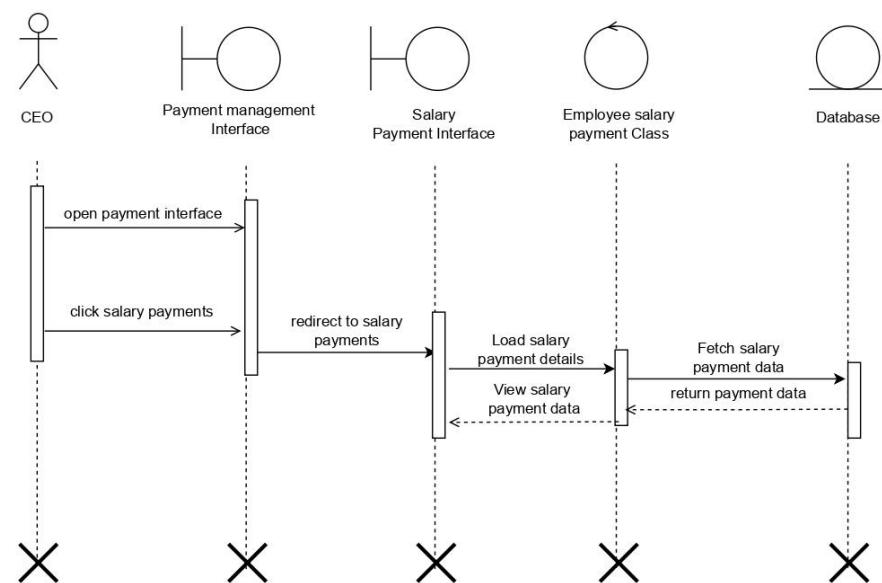


Figure 75 : Sequence diagram 72

View salary information

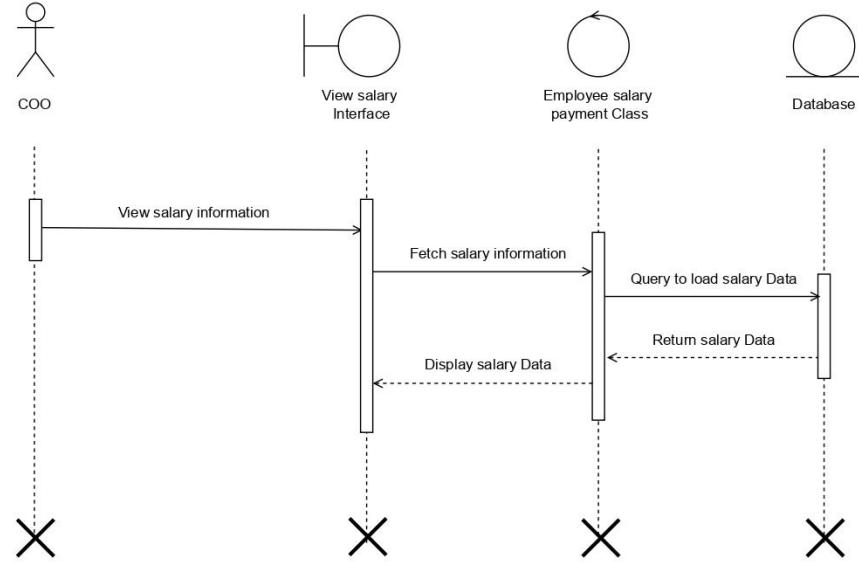


Figure 76 : Sequence diagram 73

View salary information

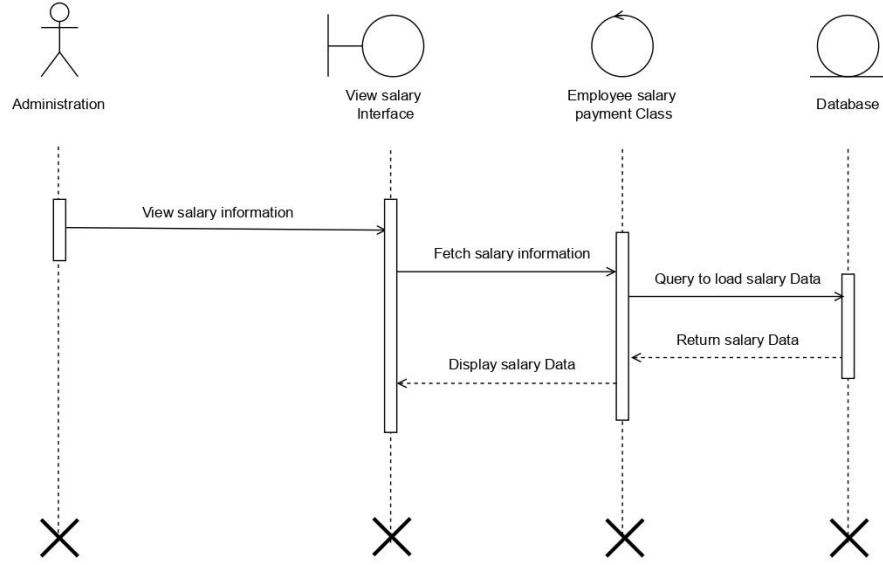


Figure 77 : Sequence diagram 74

View salary information

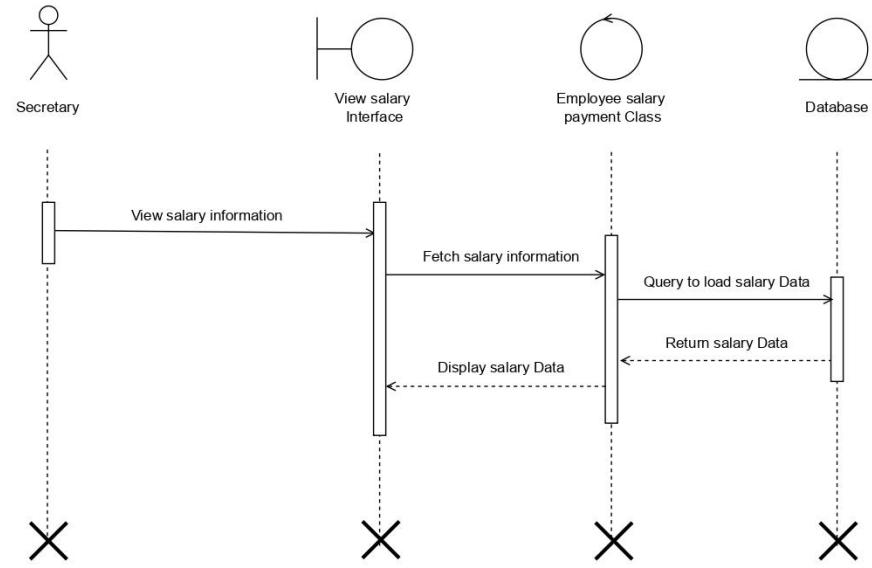


Figure 78 : Sequence diagram 75

View salary information

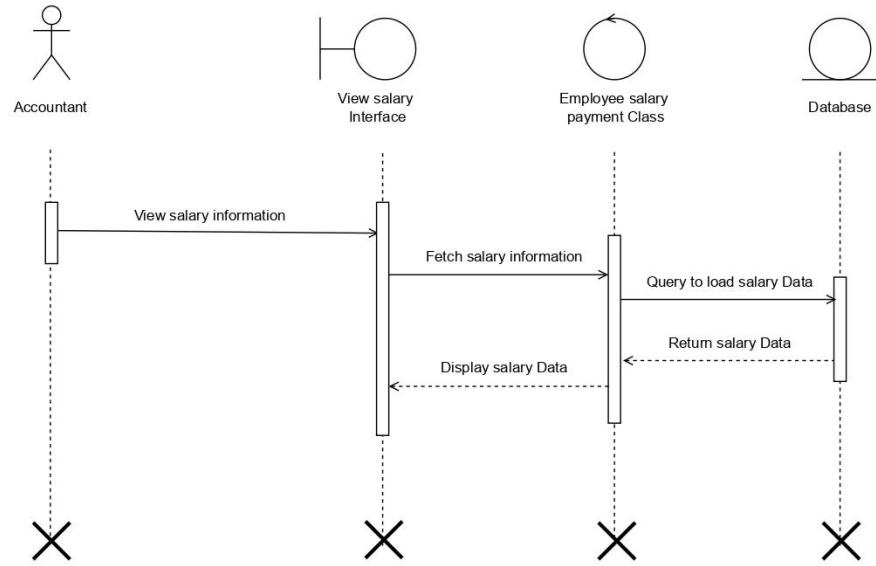


Figure 79 : Sequence diagram 76

Send feedback

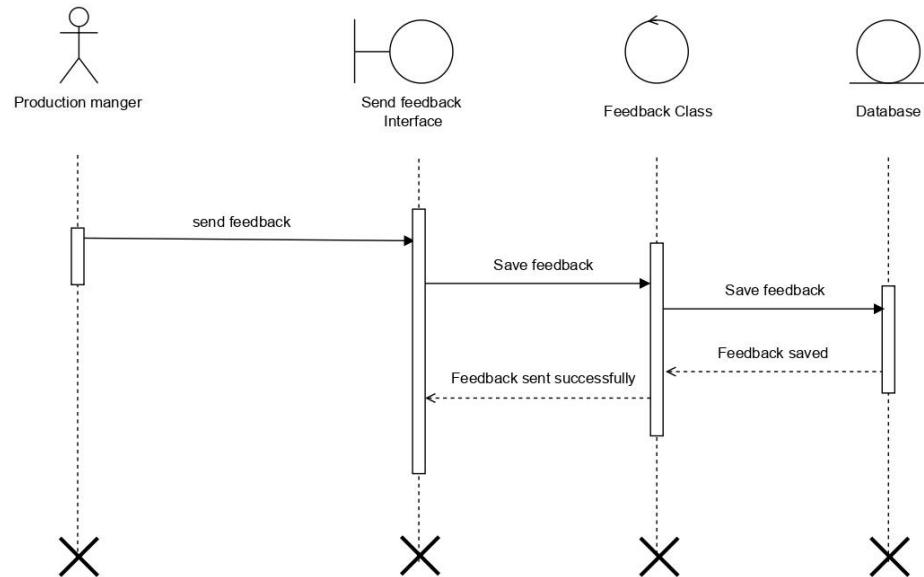


Figure 80 : Sequence diagram 77

Send feedback

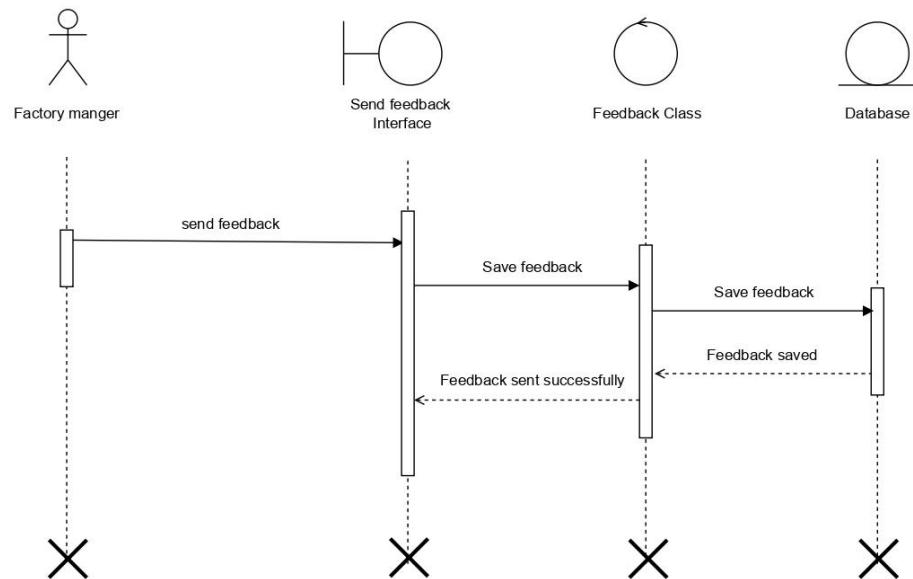


Figure 81 : Sequence diagram 78

Send feedback

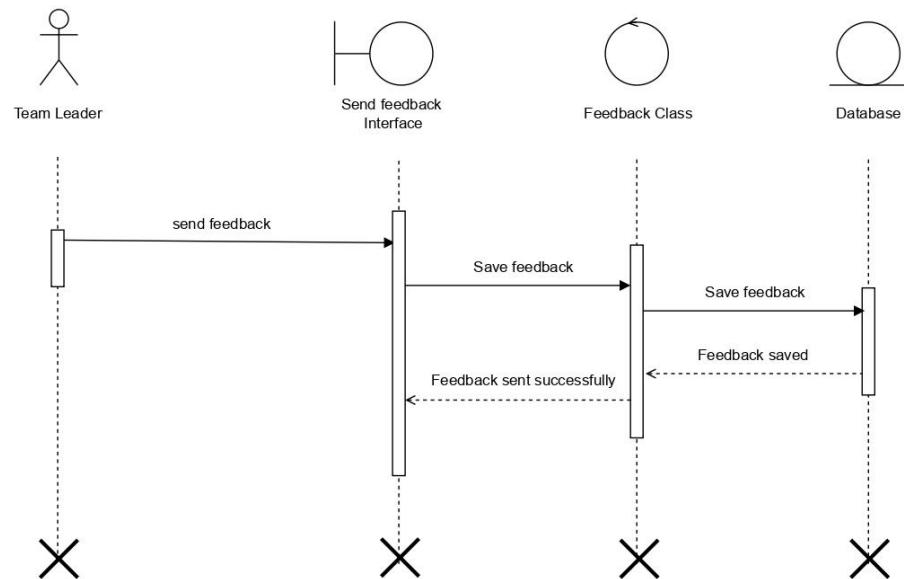


Figure 82 : Sequence diagram 79

Send feedback

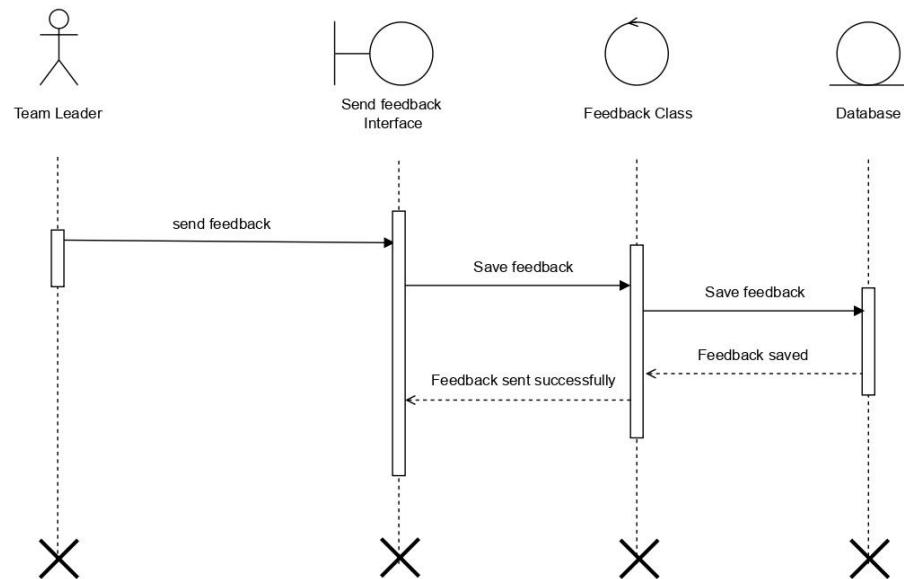


Figure 83 : Sequence diagram 80

Send feedback

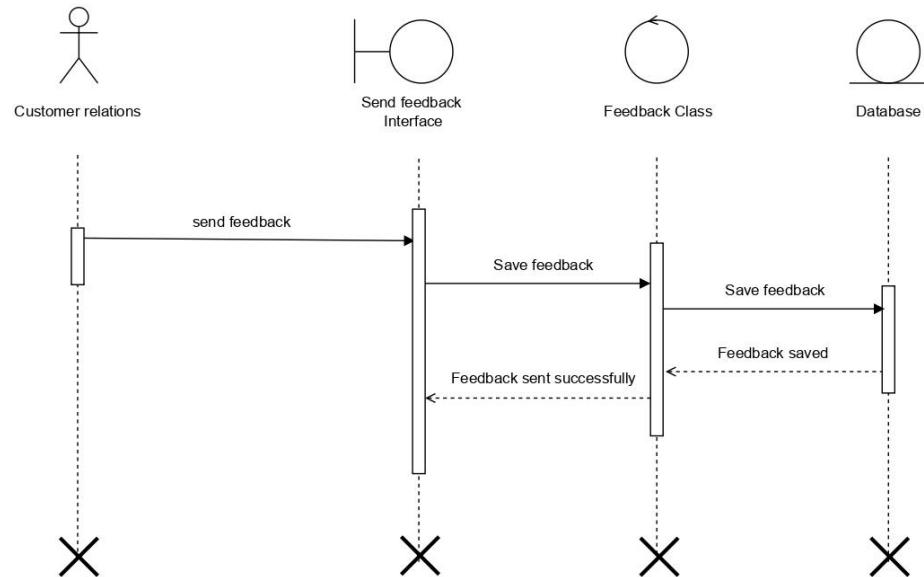


Figure 84 : Sequence diagram 81

Send feedback

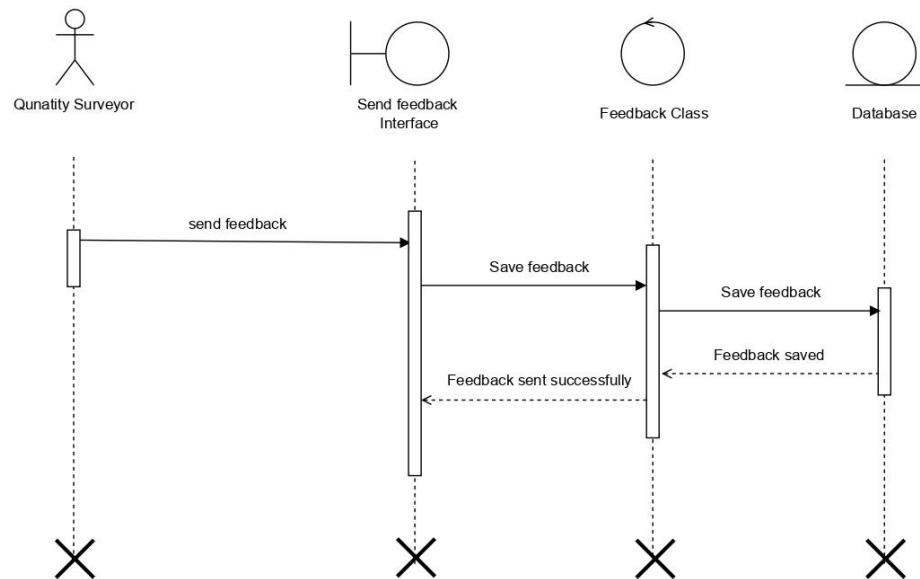


Figure 85 : Sequence diagram 82

Send feedback

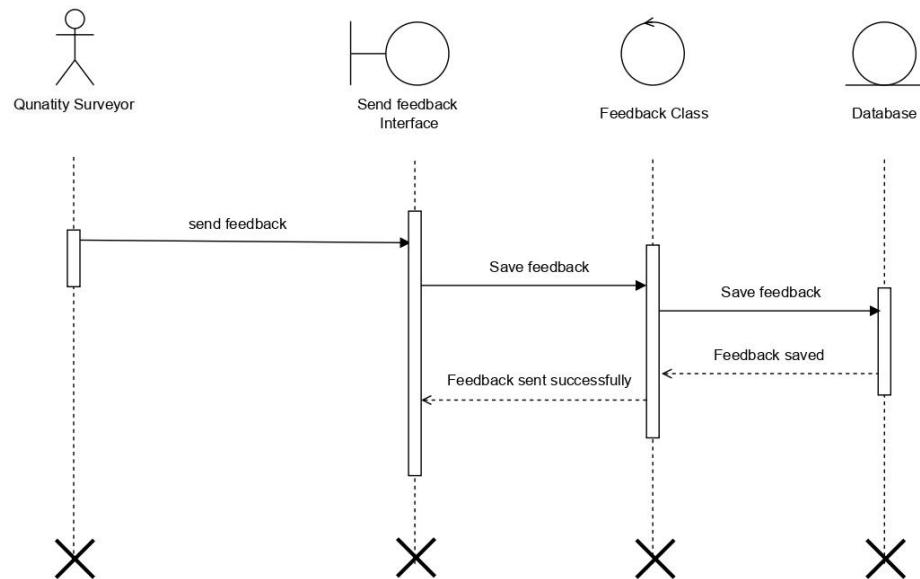


Figure 86 : Sequence diagram 83

Send feedback

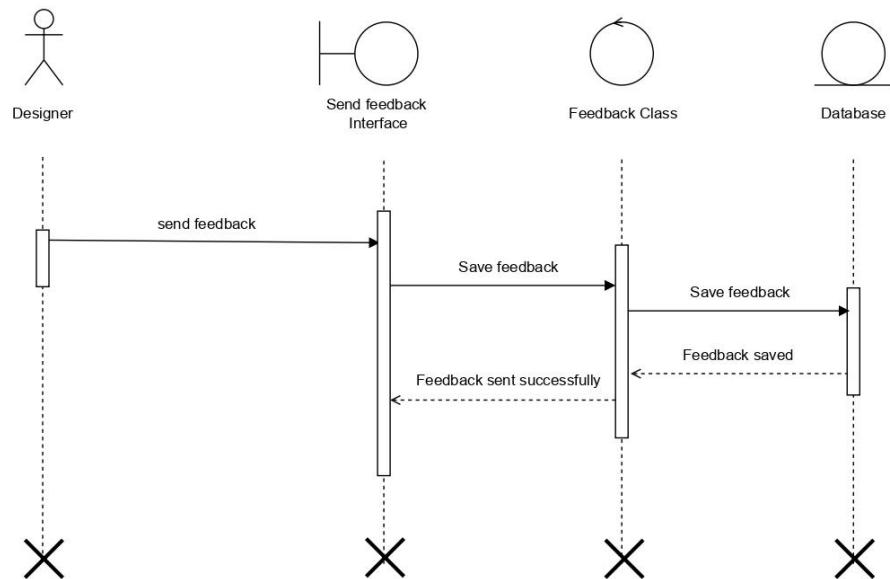


Figure 87 : Sequence diagram 84

Send feedback

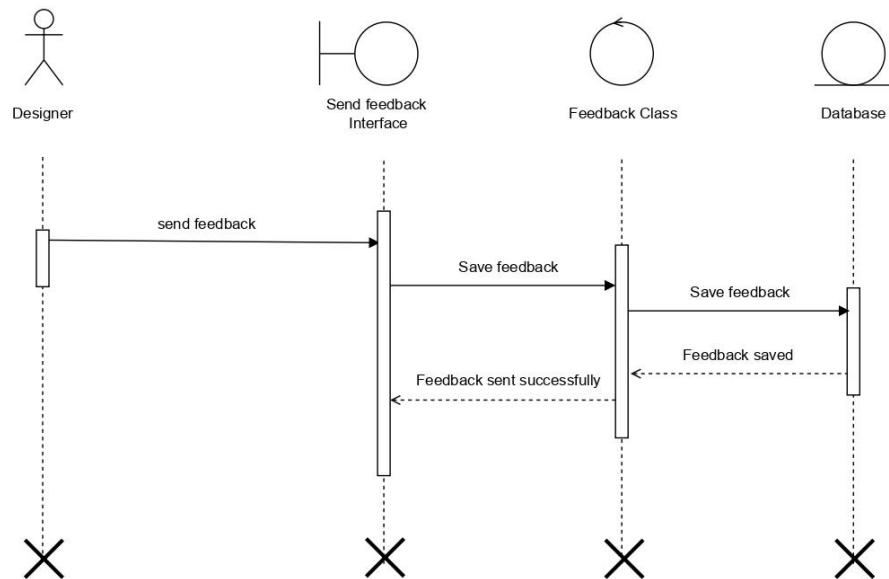


Figure 88 : Sequence diagram 85

Send feedback

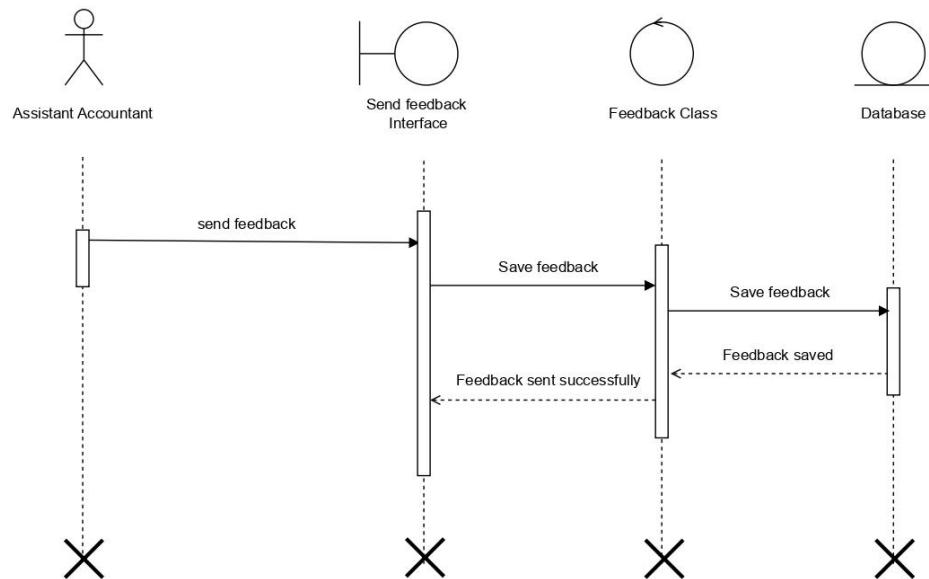


Figure 89 : Sequence diagram 86

Send feedback

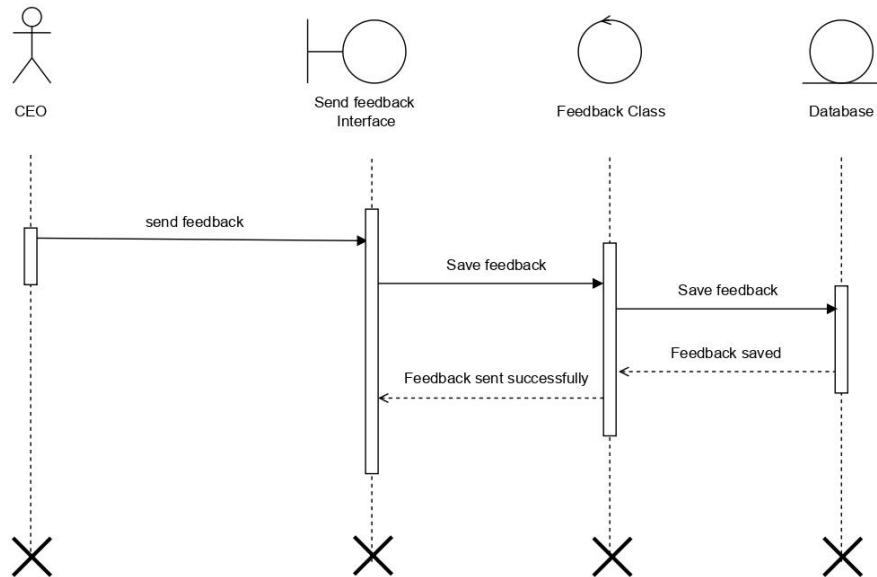


Figure 90 : Sequence diagram 87

Set project deadlines

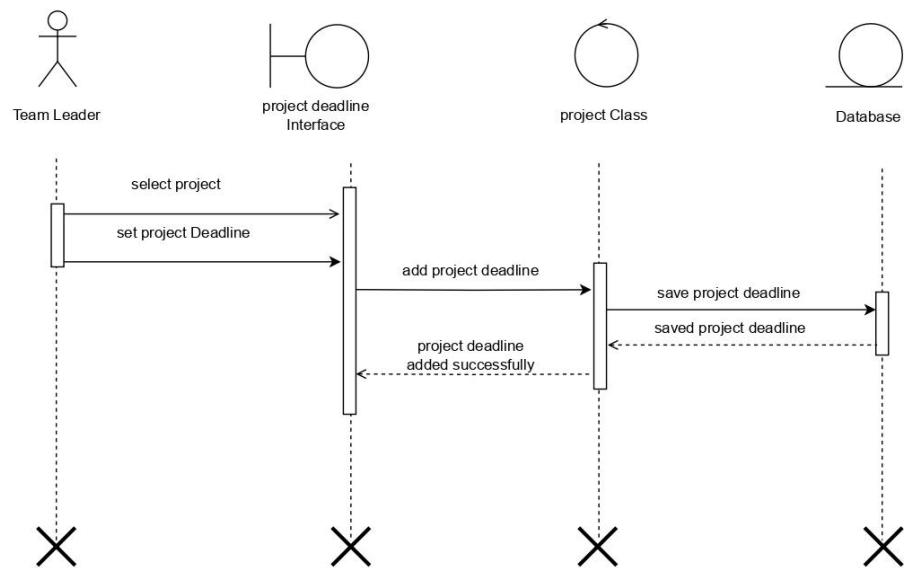


Figure 91 : Sequence diagram 88

Set tasks deadlines

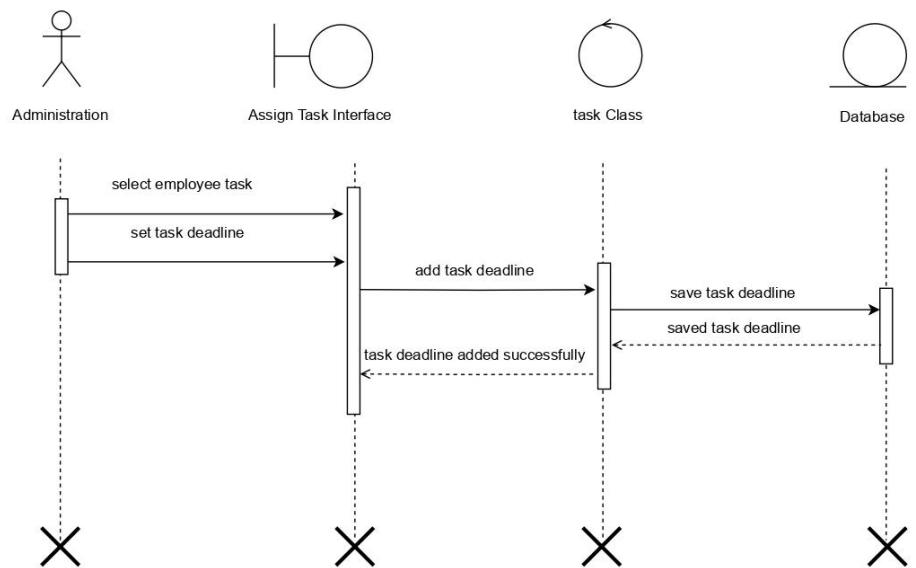


Figure 92 : Sequence diagram 89

Upload designs

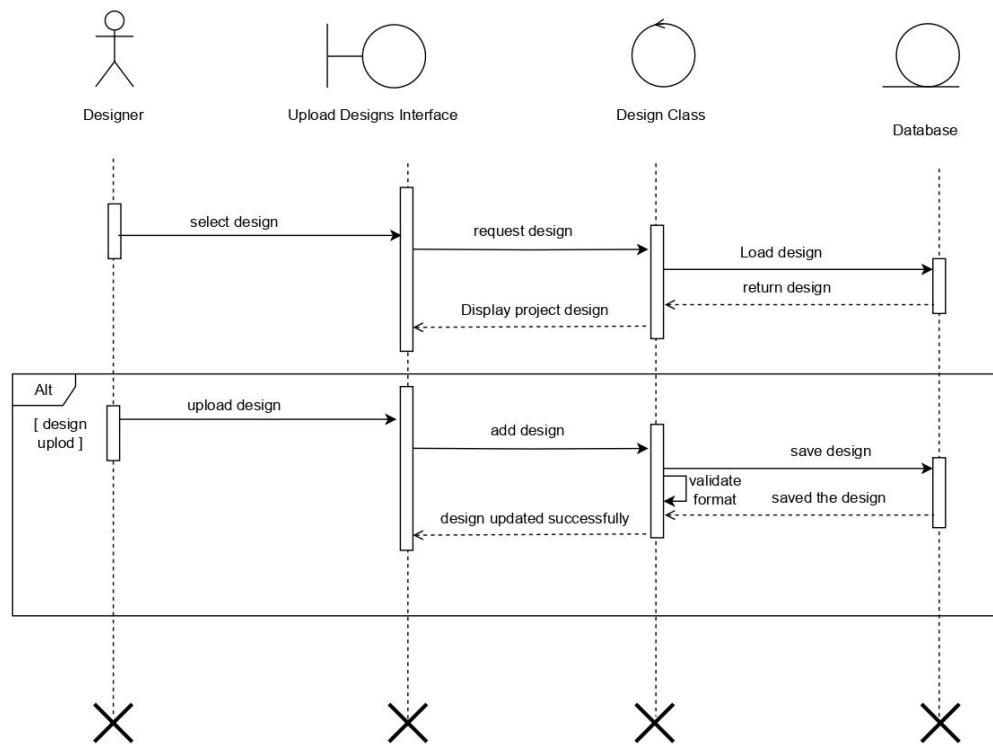


Figure 93 : Sequence diagram 90

View, add , update , delete inventory data

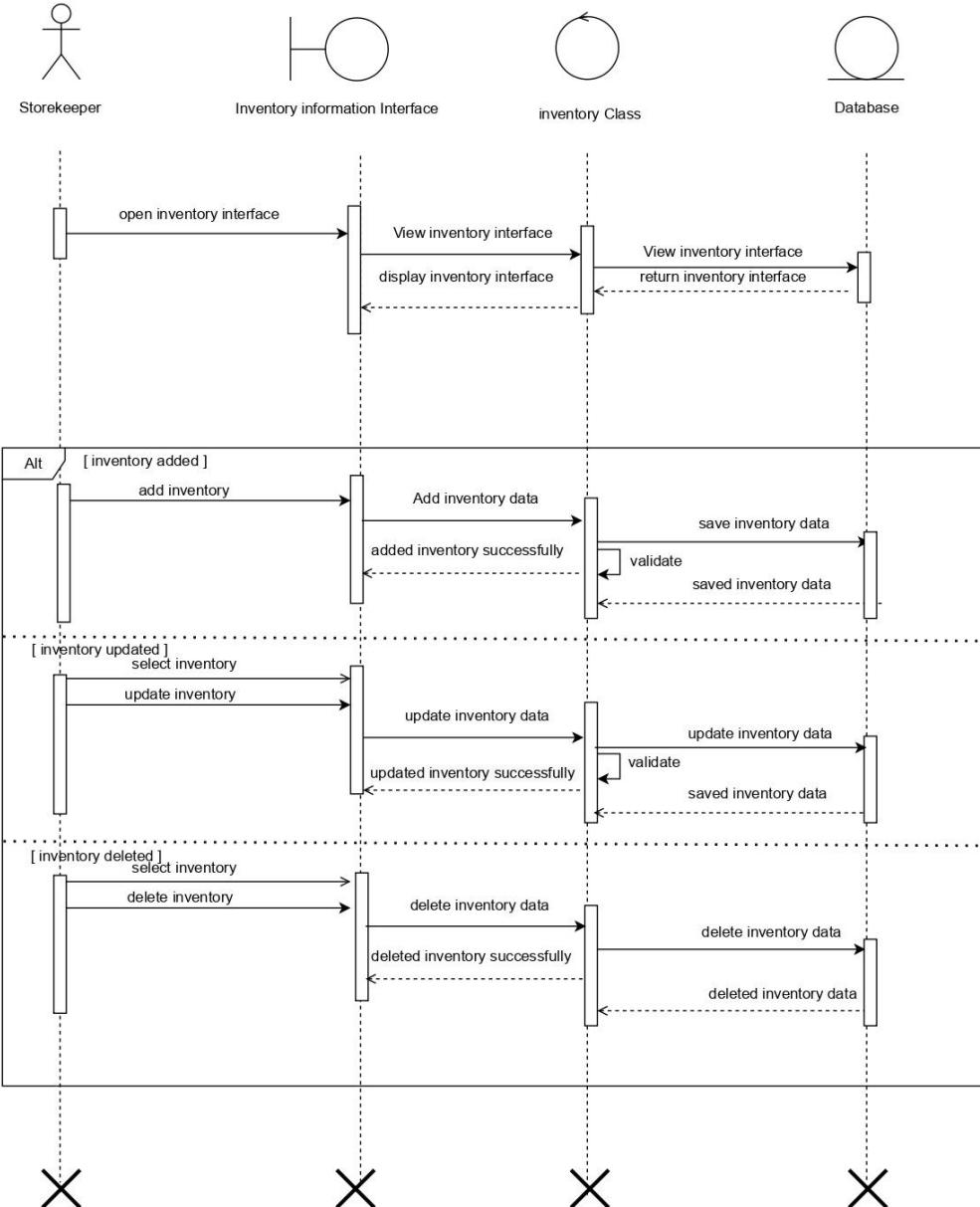


Figure 94 : Sequence diagram 91

View, Update and delete supplier profiles

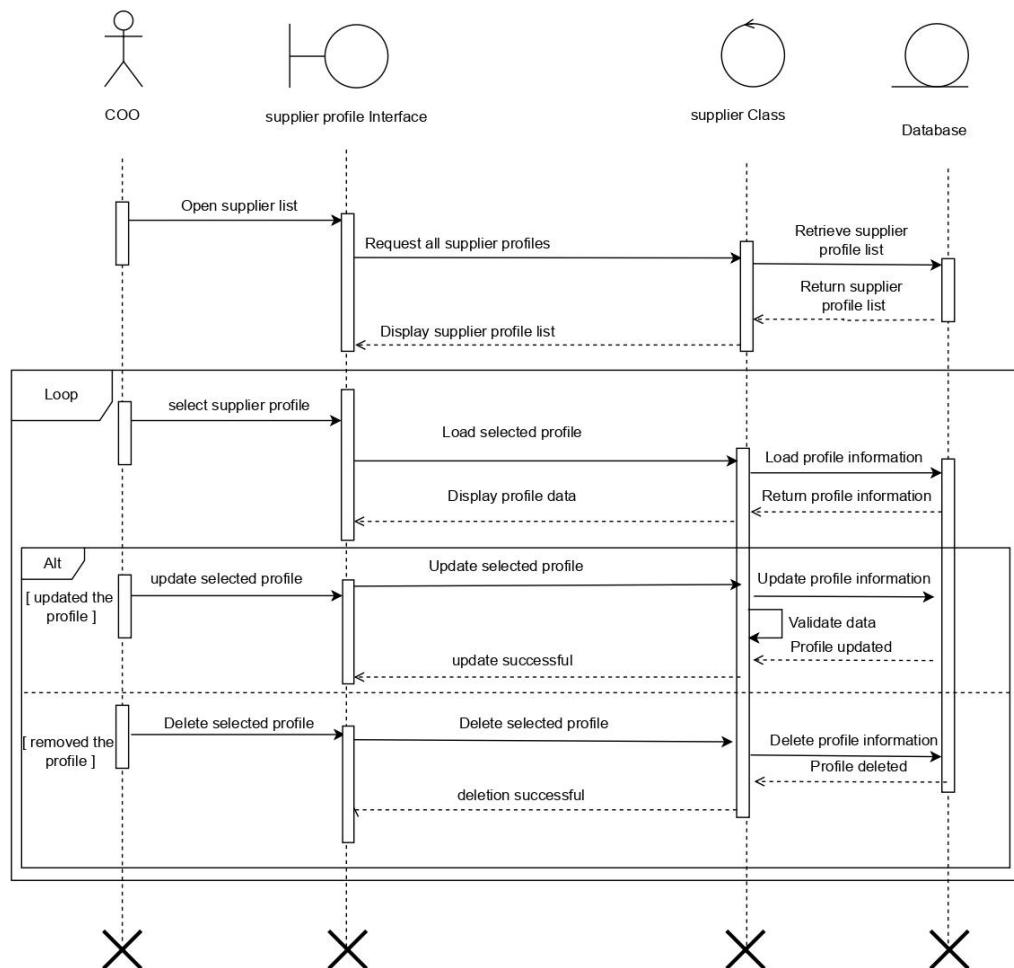


Figure 95 : Sequence diagram 92

Add, Update and remove employee profiles

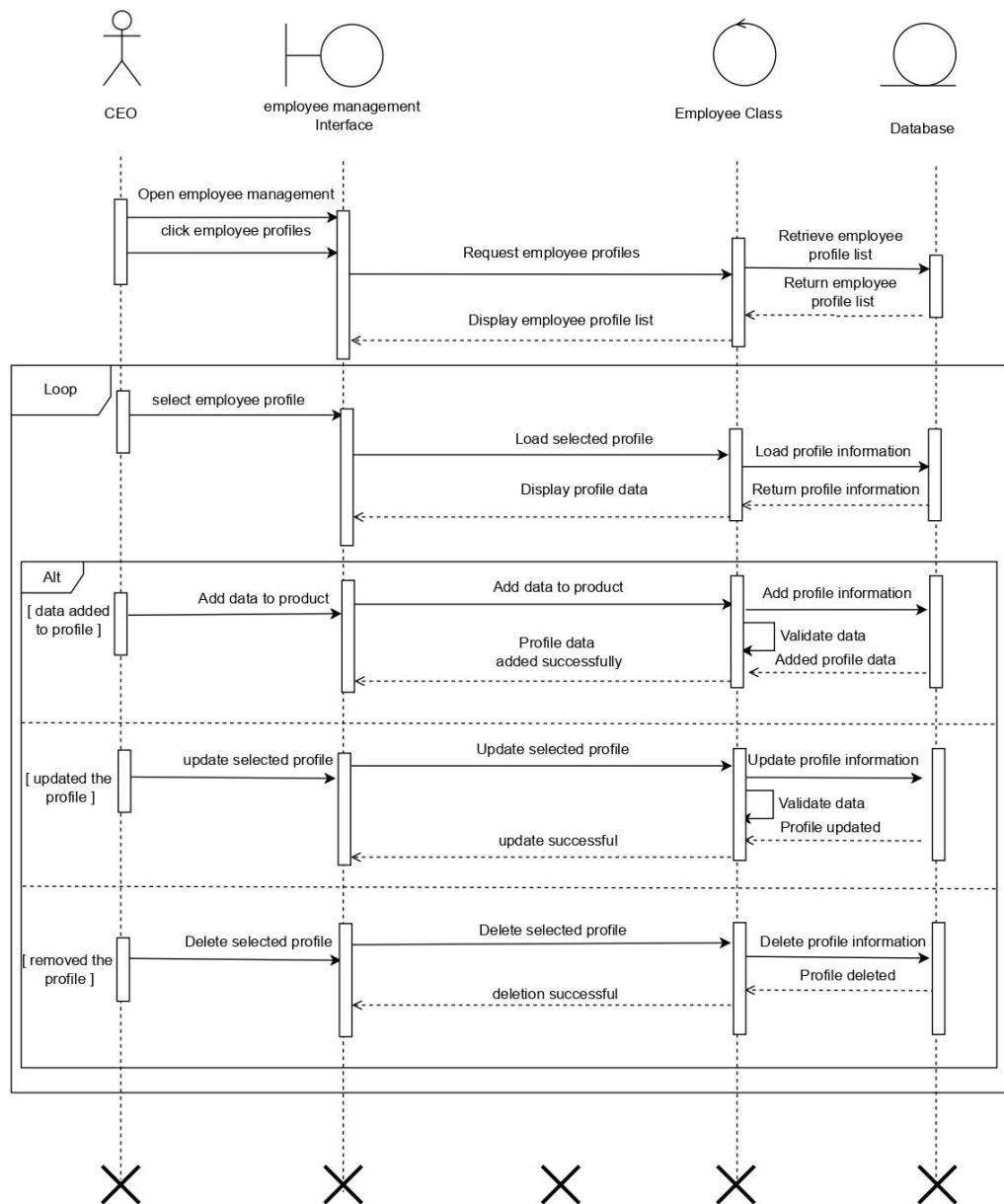


Figure 96 : Sequence diagram 93

View, Add, Update and Delete Tasks

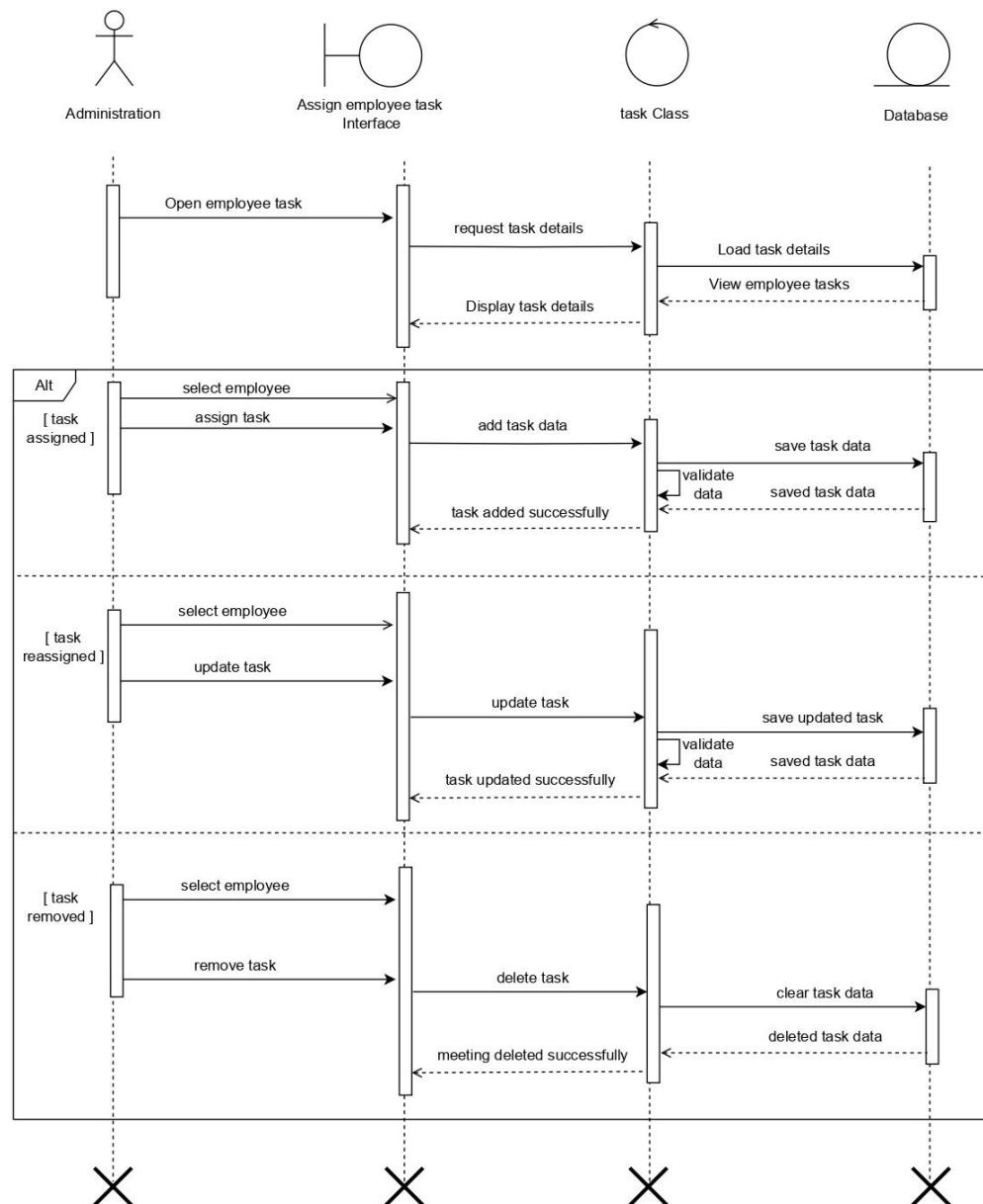


Figure 97 : Sequence diagram 94

**view project information
approve and reject project**

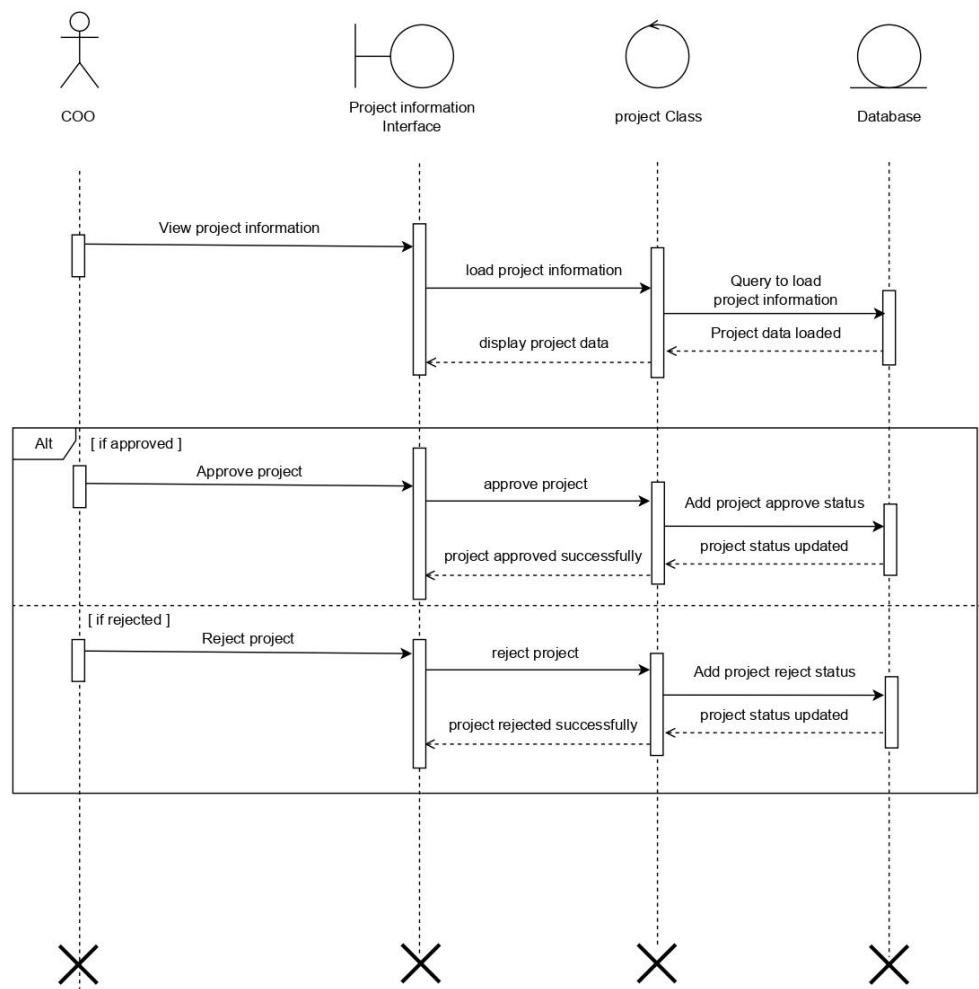


Figure 98 : Sequence diagram 95

View, Add, Update and Delete meeting schedule

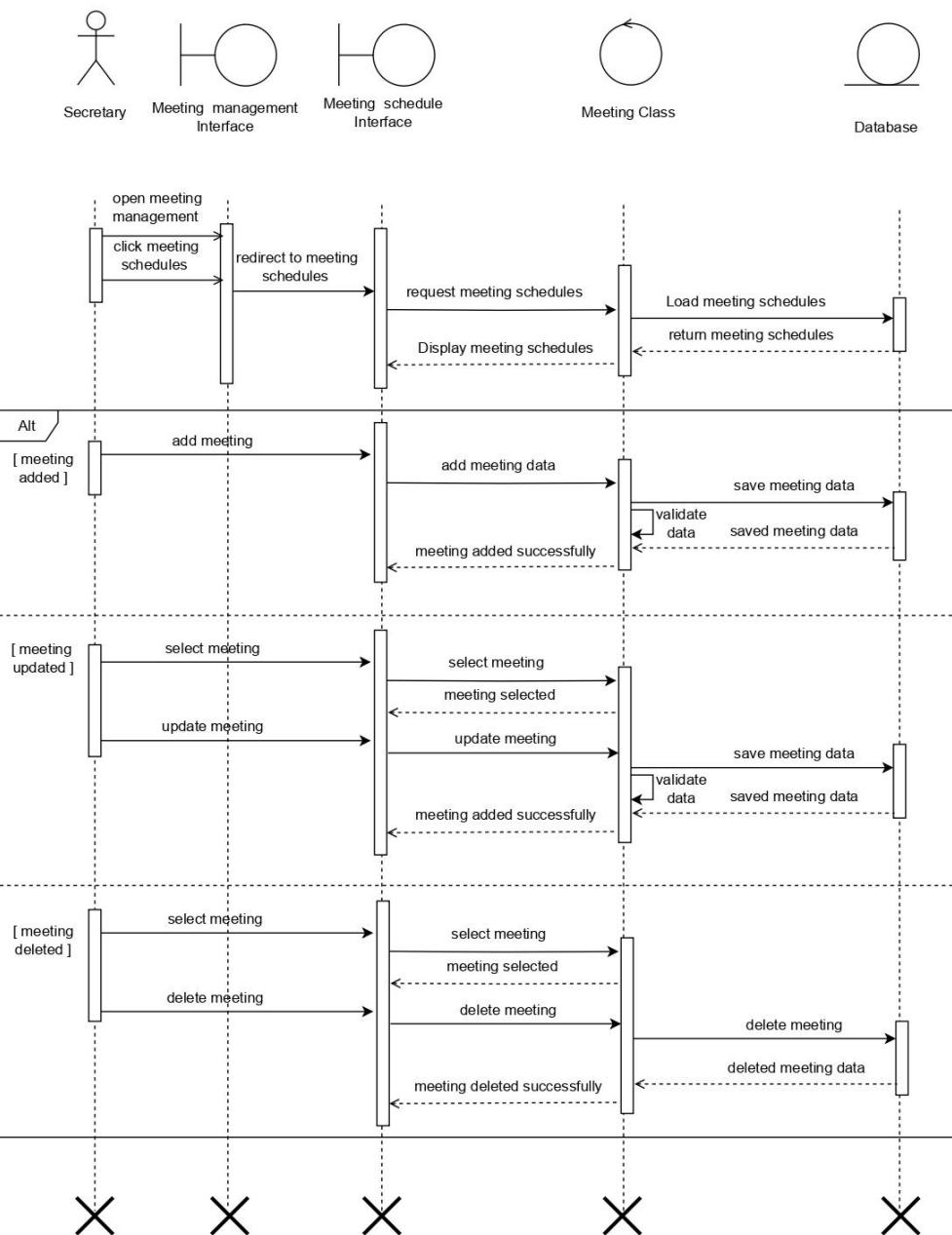


Figure 99 : Sequence diagram 96

View approved project information

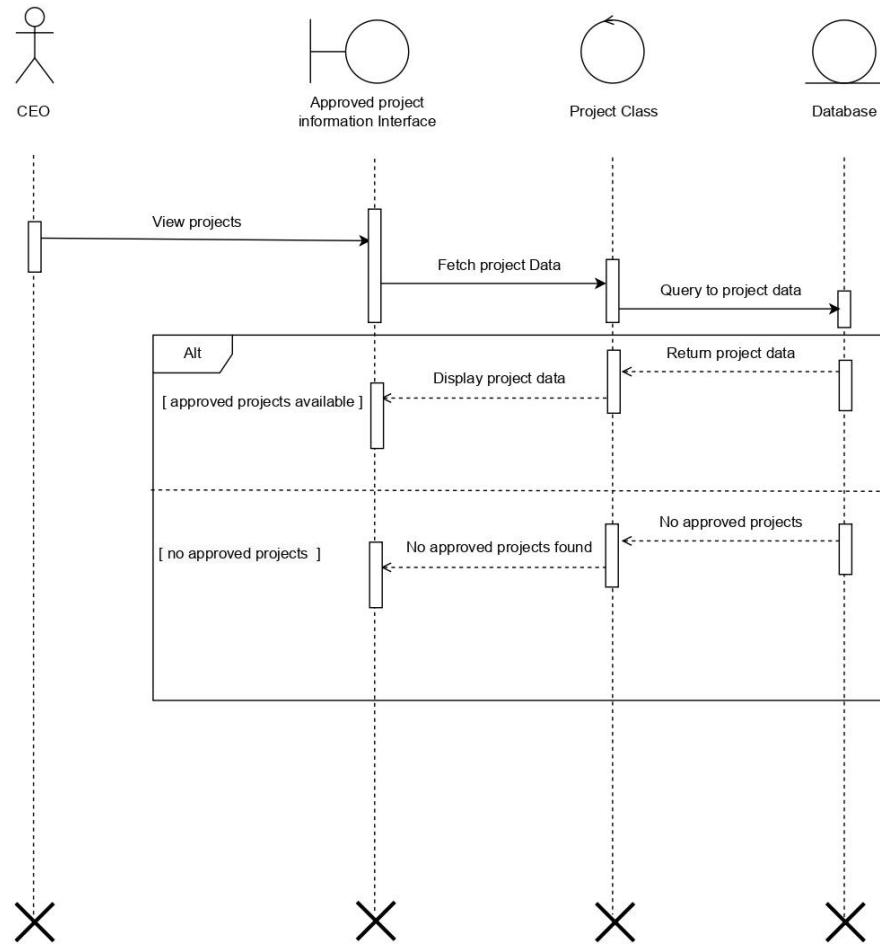


Figure 100 : Sequence diagram 97

View client payment

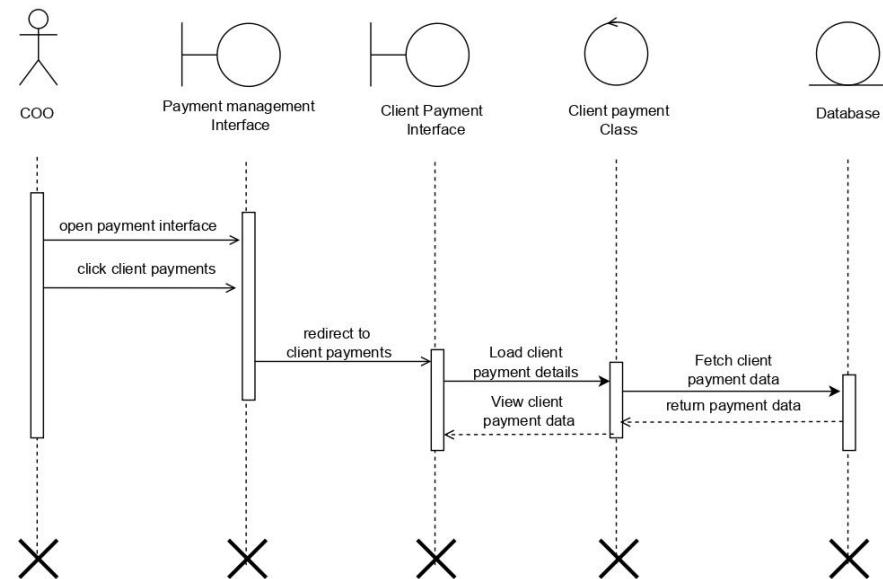


Figure 101 : Sequence diagram 98

View client payment

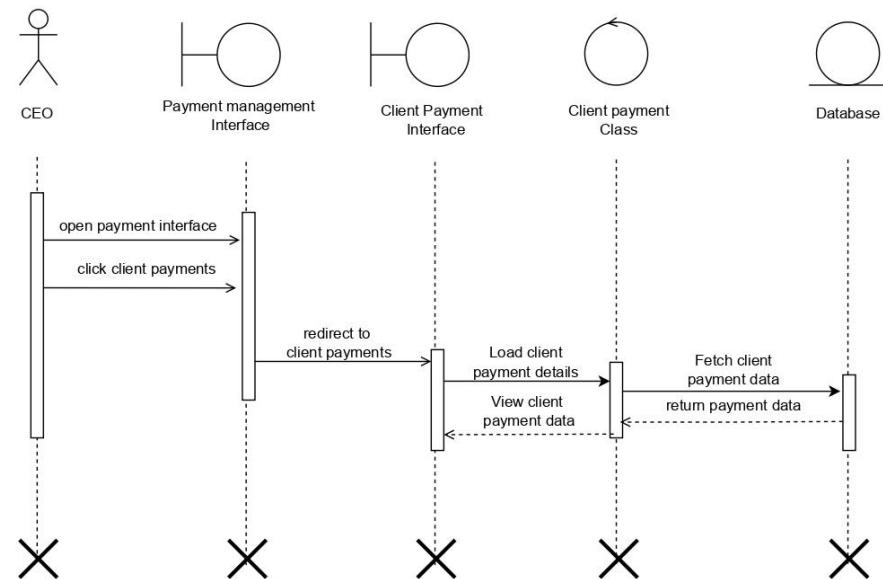


Figure 102 : Sequence diagram 99

View, add , update , delete client payment

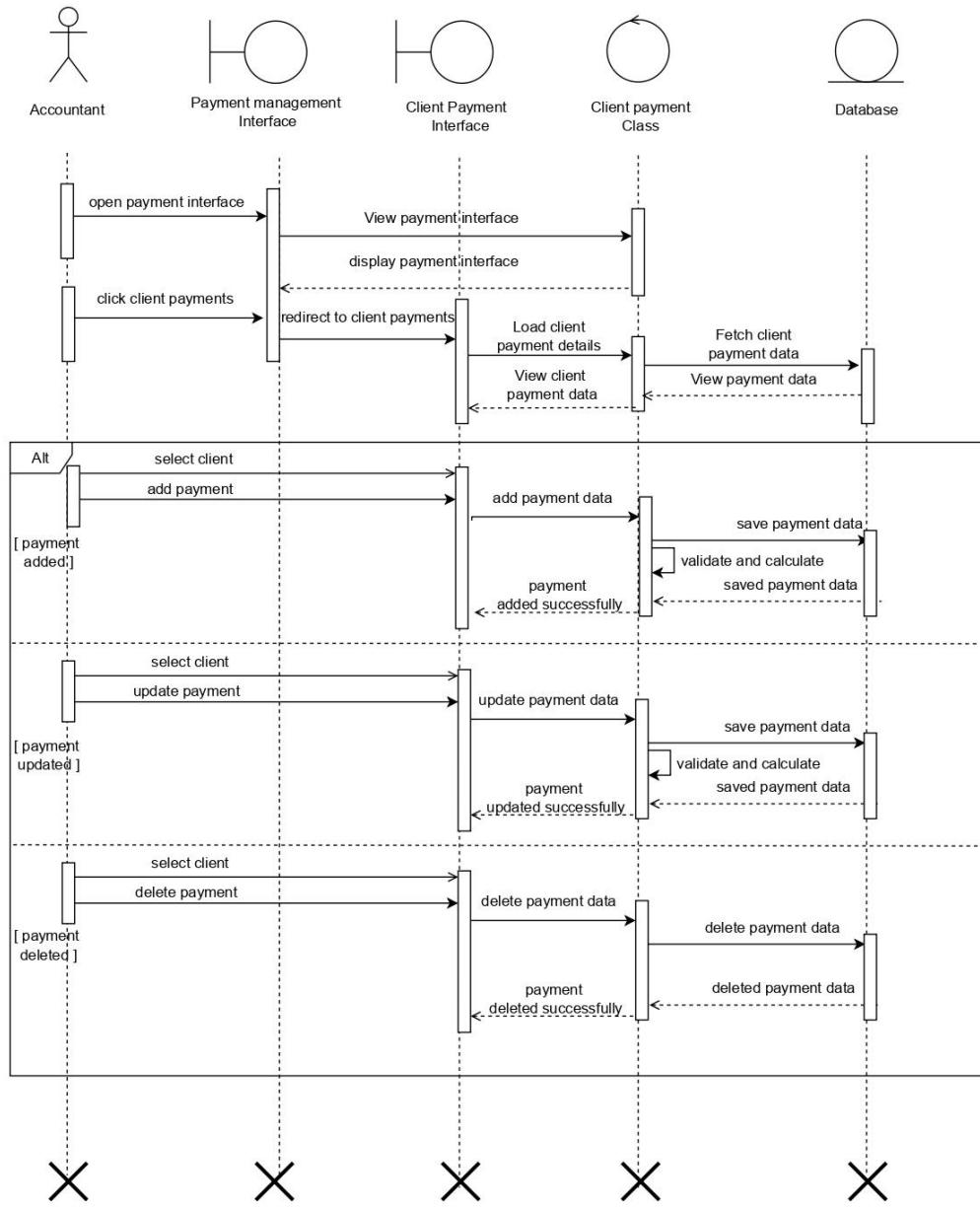


Figure 103 : Sequence diagram 100

Register to the system

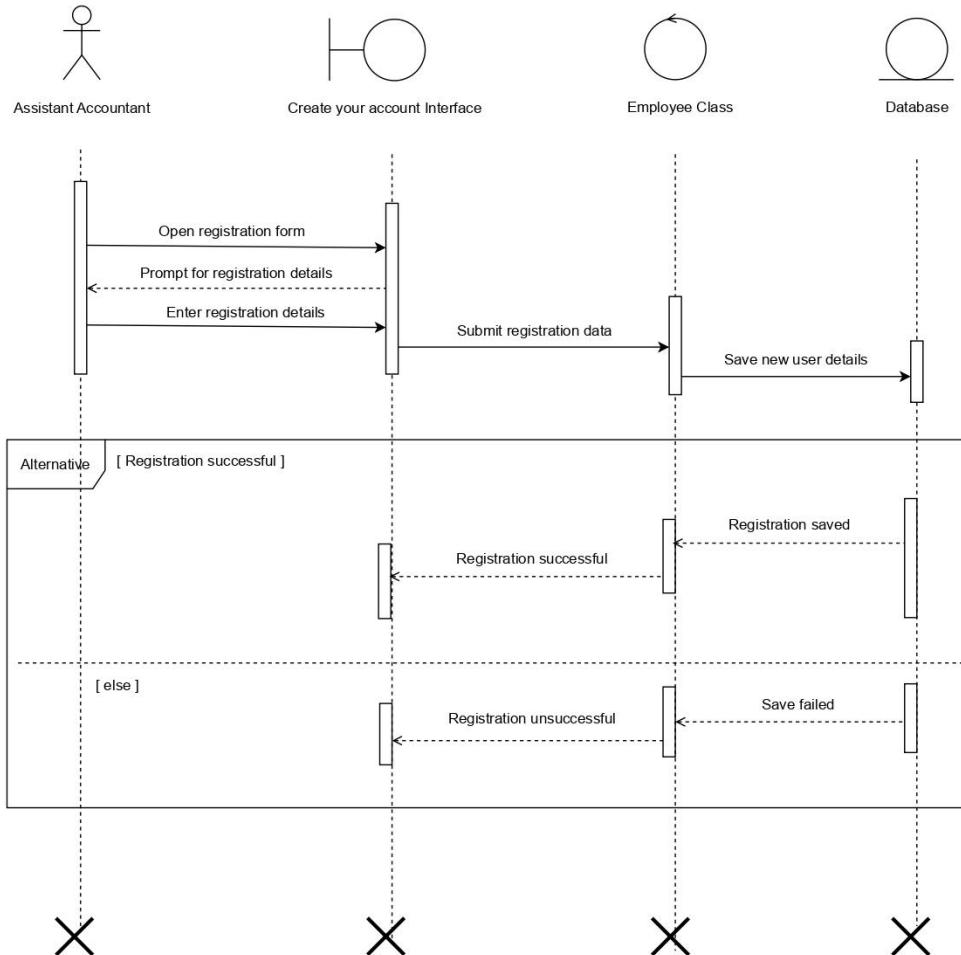


Figure 104 : Sequence diagram 101

Register to the system

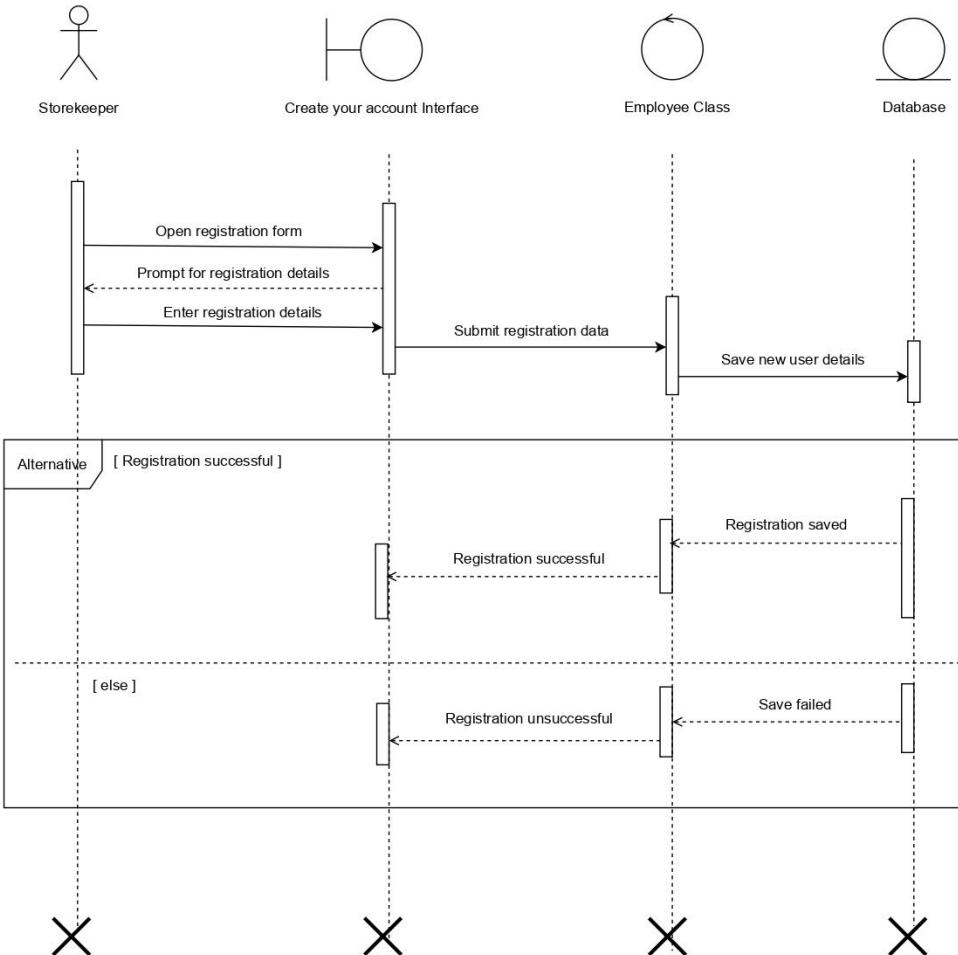


Figure 105 : Sequence diagram 102

Register to the system

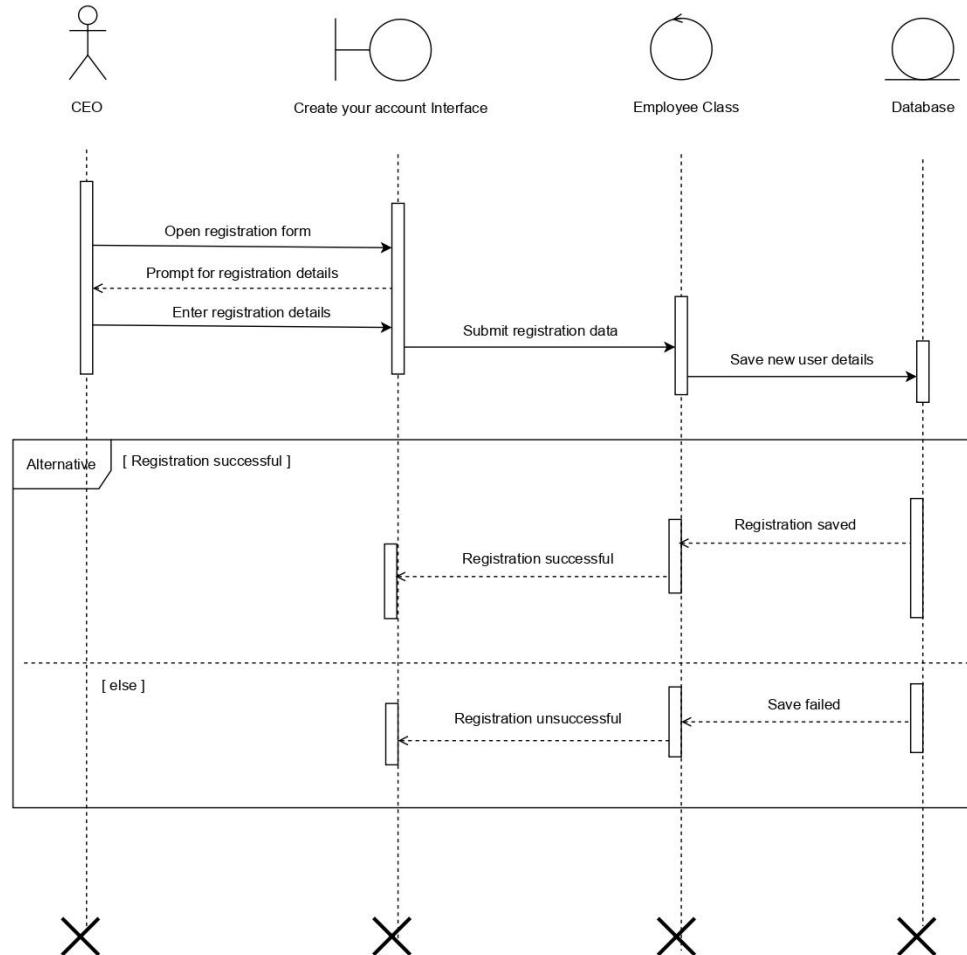


Figure 106 : Sequence diagram 103

Respond feedback

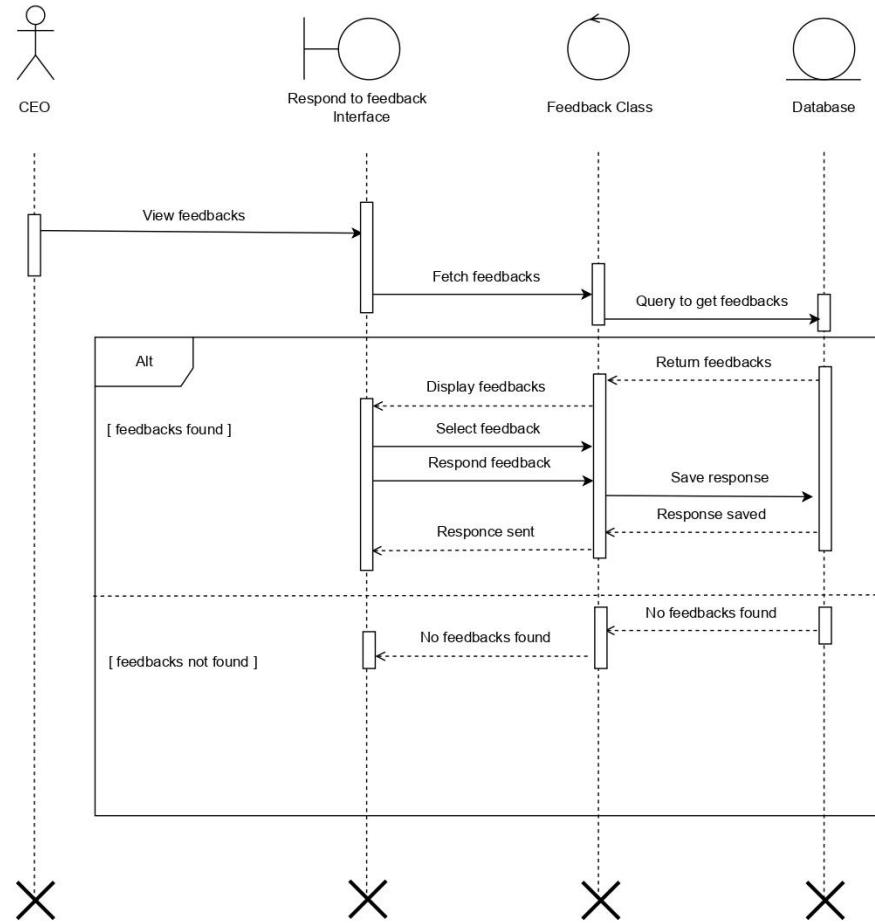


Figure 107 : Sequence diagram 104

Review designs

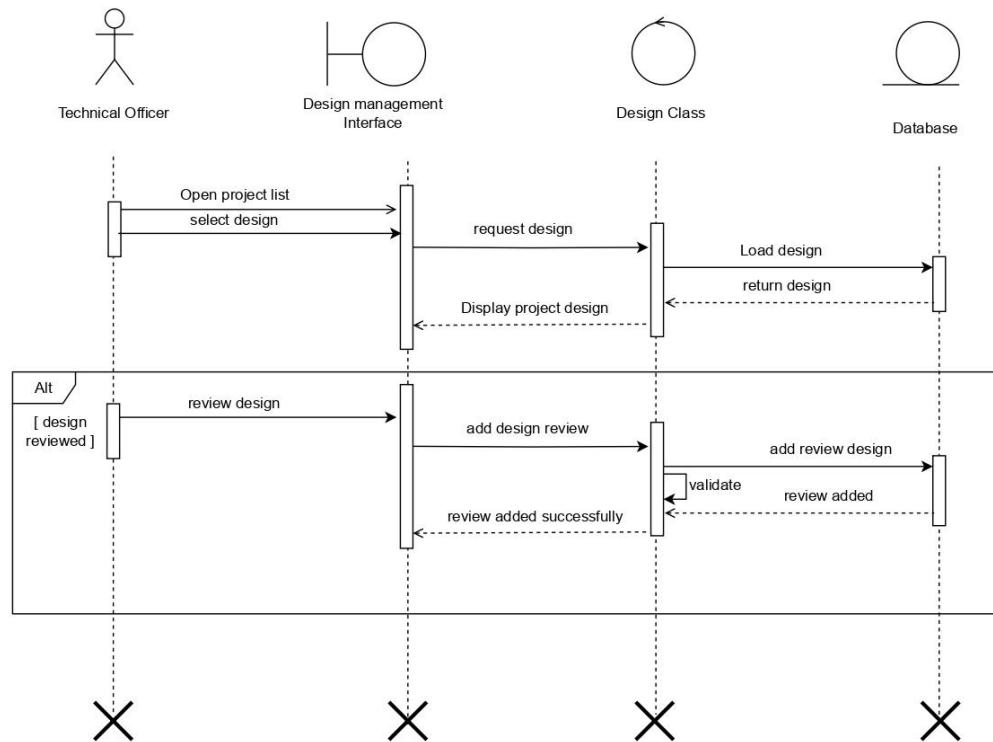


Figure 108 : Sequence diagram 105

View, Add, Update and Delete sales information

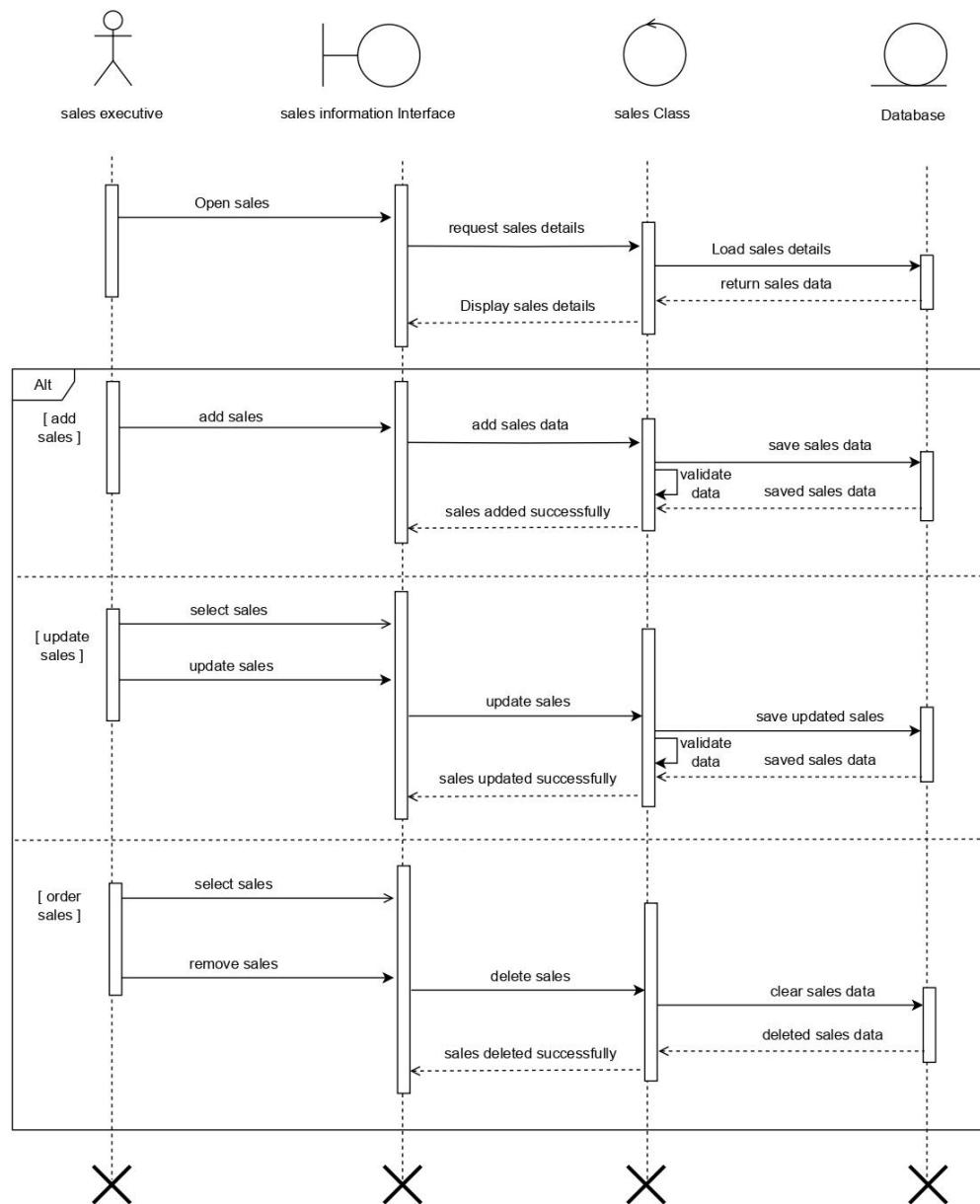


Figure 109 : Sequence diagram 106

Generate daily, weekly, monthly sales reports

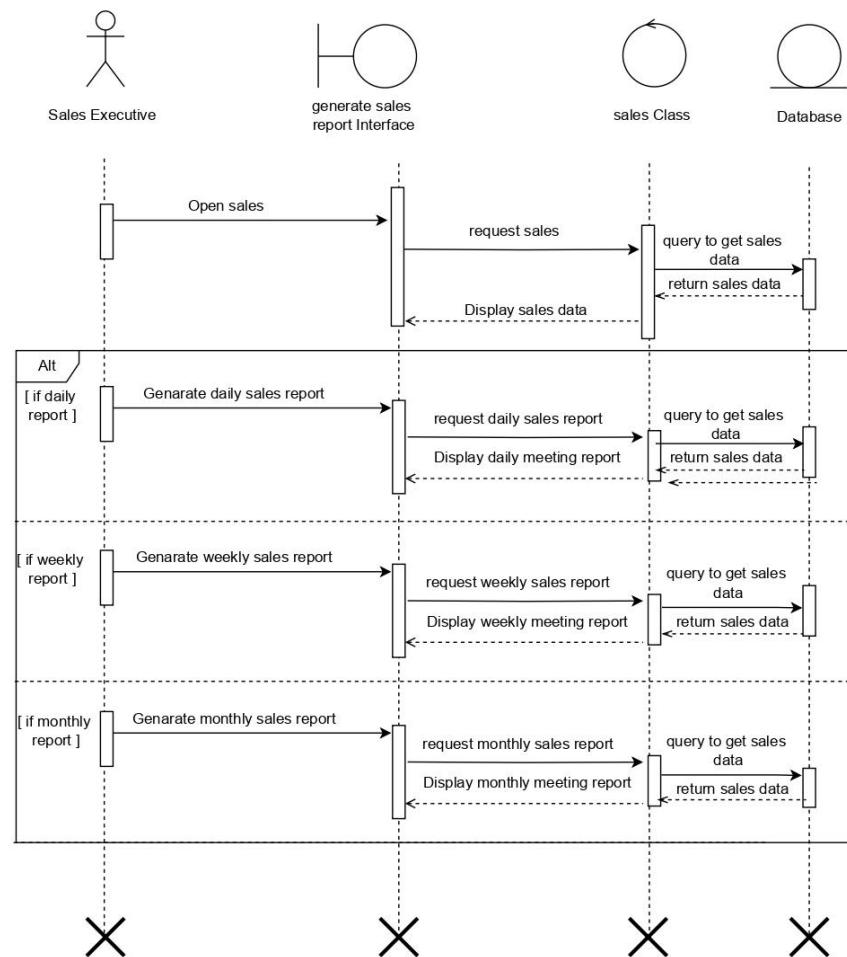


Figure 110 : Sequence diagram 107

View Scheduled meeting

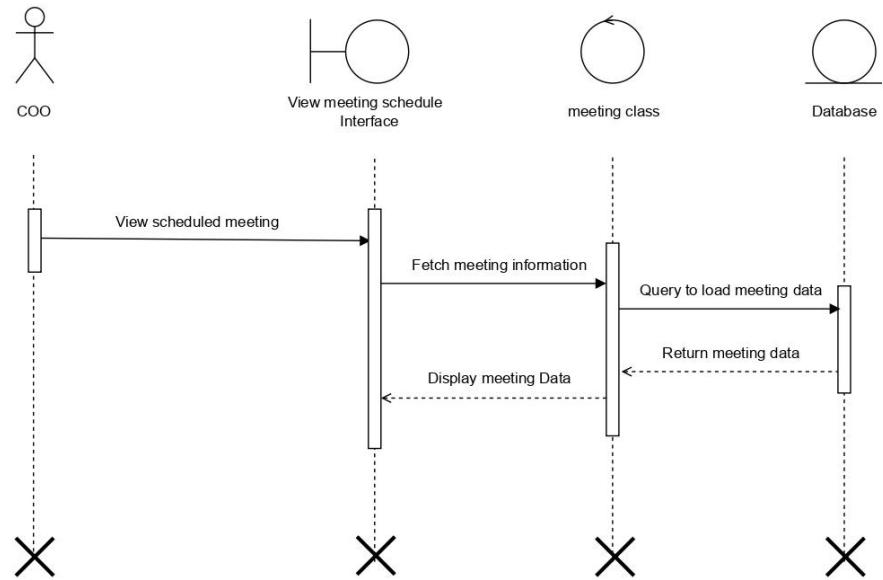


Figure 111 : Sequence diagram 108

View Scheduled meeting

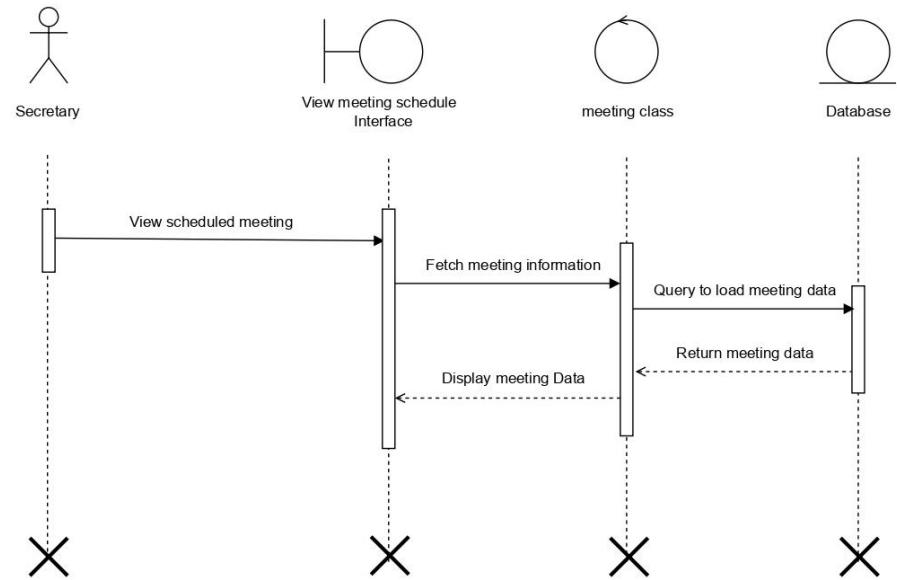


Figure 112 : Sequence diagram 109

View Scheduled meeting

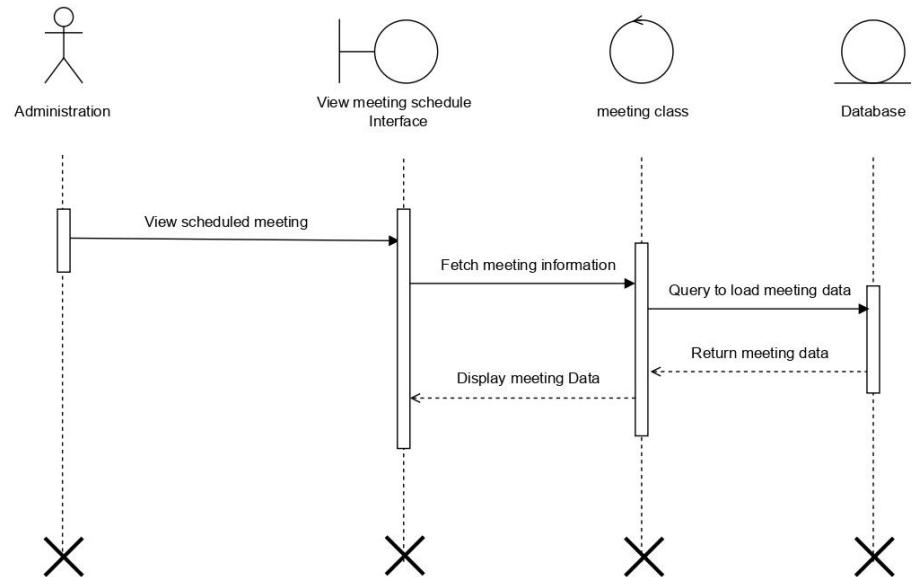


Figure 113 : Sequence diagram 110

View Scheduled meeting

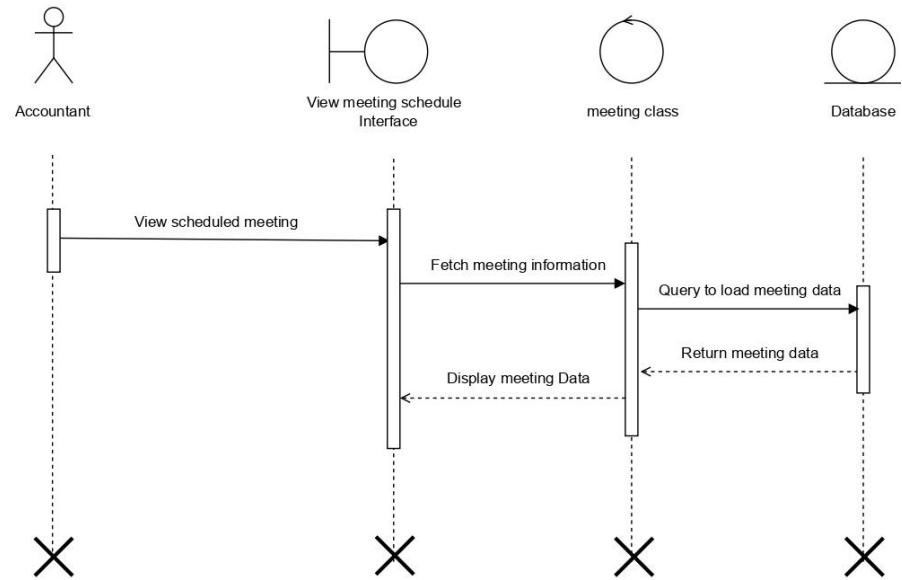


Figure 114 : Sequence diagram 111

View Scheduled meeting

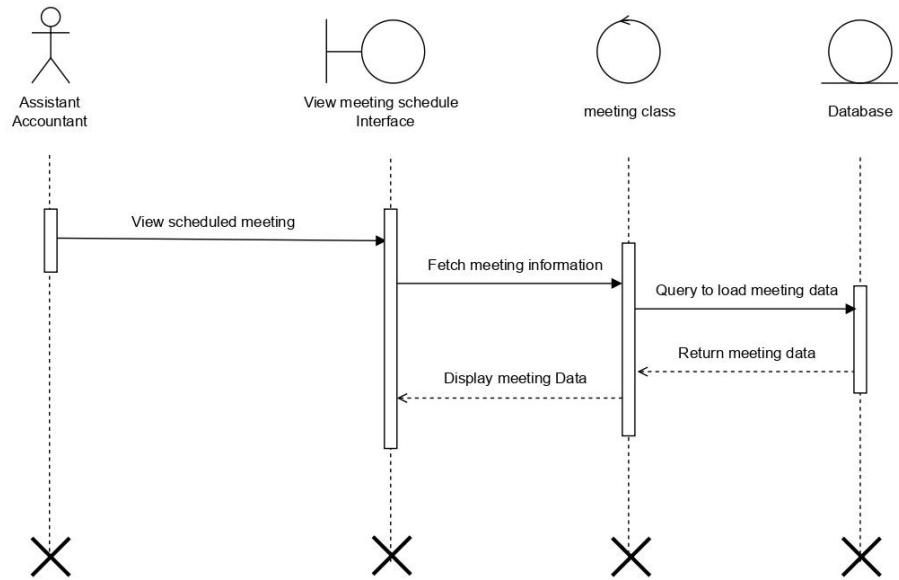


Figure 115 : Sequence diagram 112

View Scheduled meeting

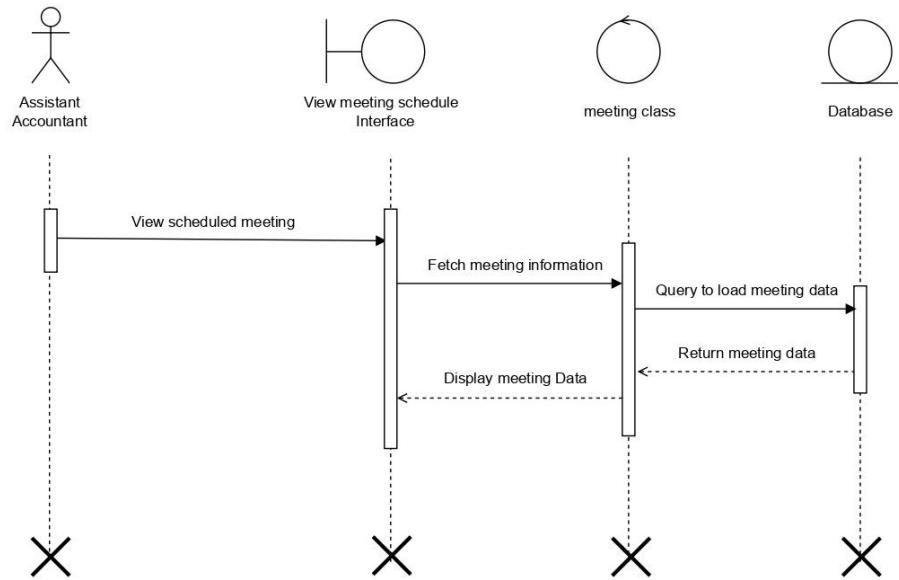


Figure 116 : Sequence diagram 113

View Scheduled meeting

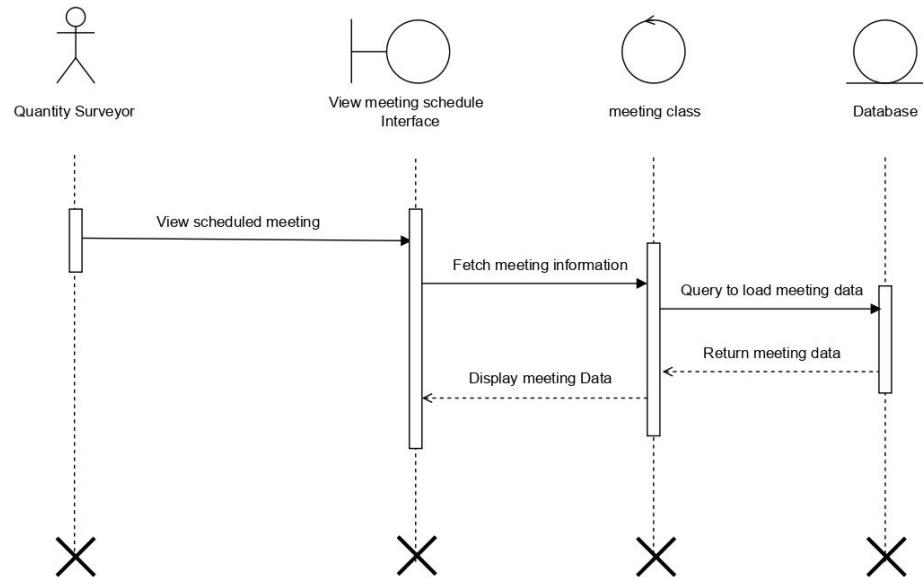


Figure 117 : Sequence diagram 114

View Scheduled meeting

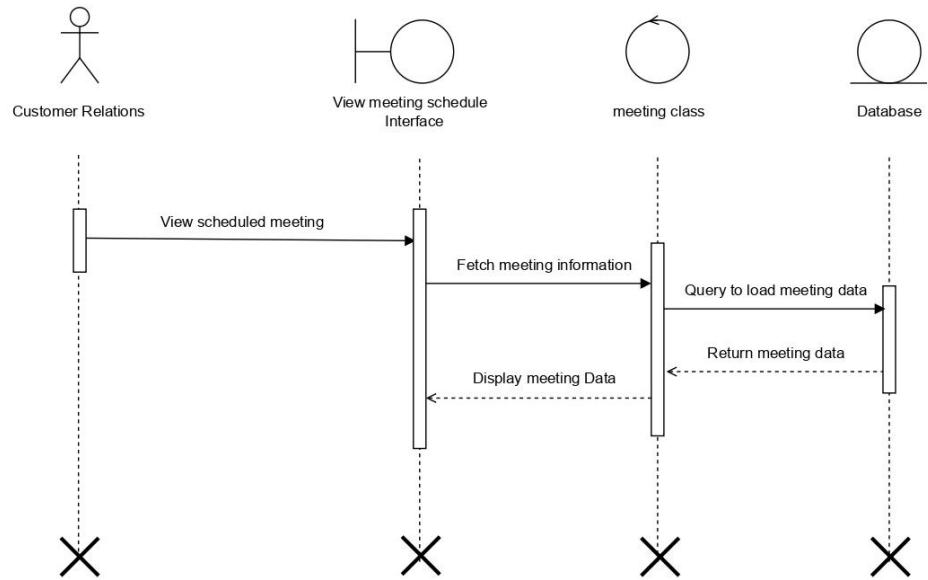


Figure 118: Sequence diagram 115

View Scheduled meeting

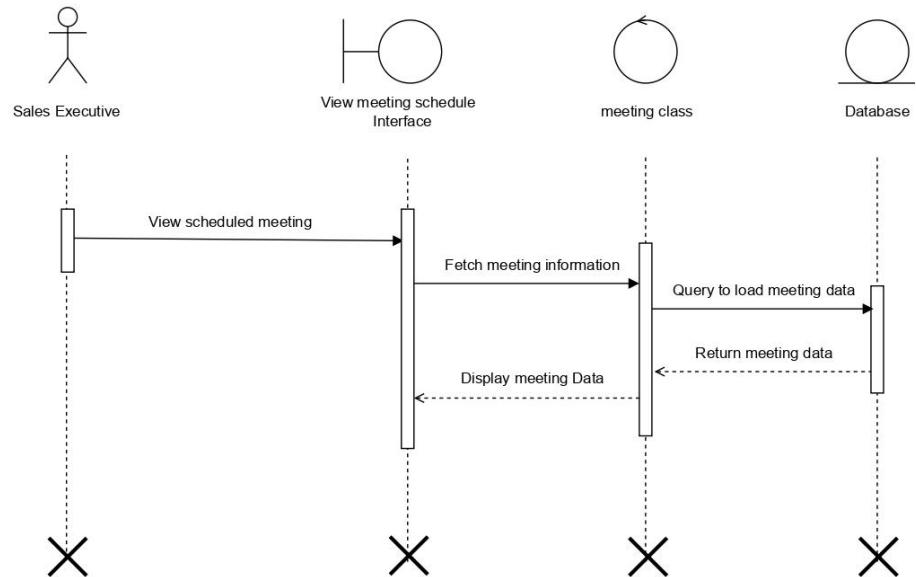


Figure 119: Sequence diagram 116

View Scheduled meeting

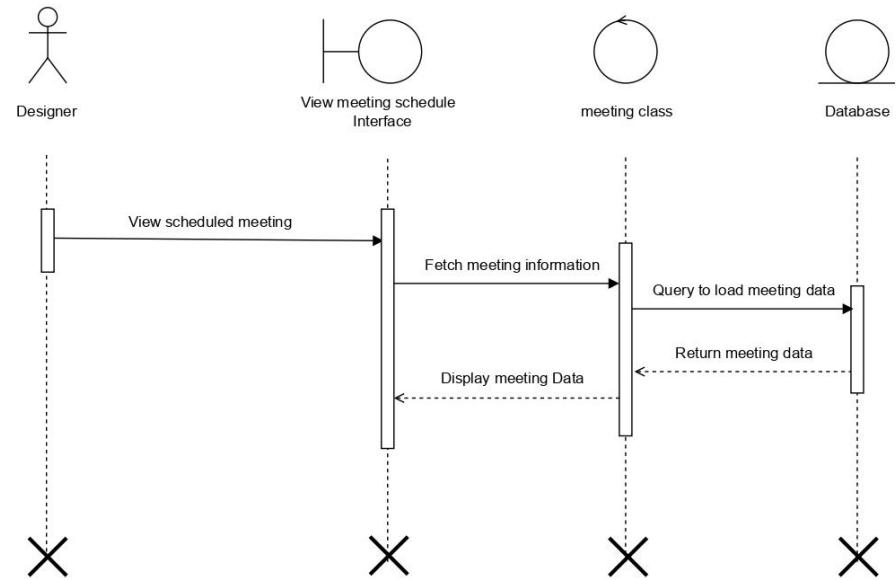


Figure 120: Sequence diagram 117

View Scheduled meeting

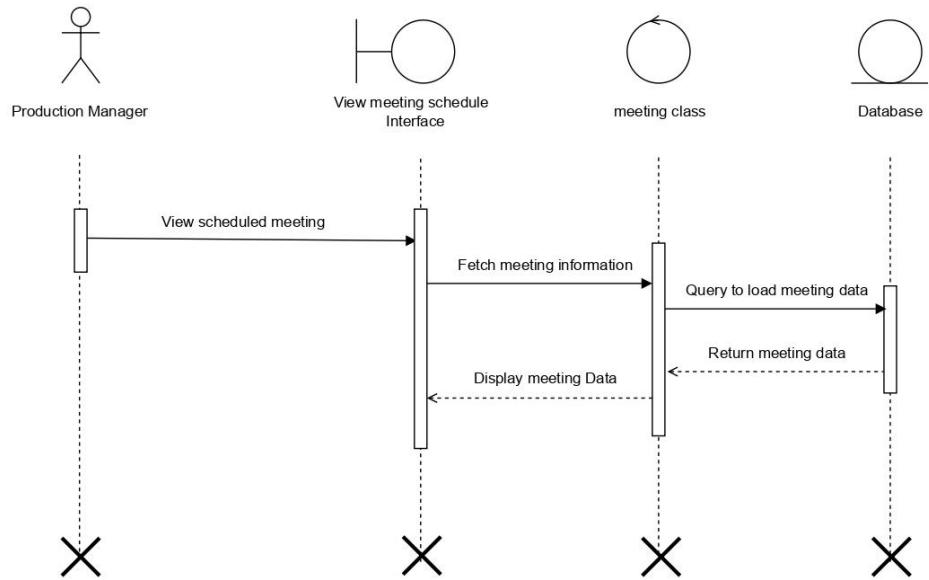


Figure 121: Sequence diagram 118

View Scheduled meeting

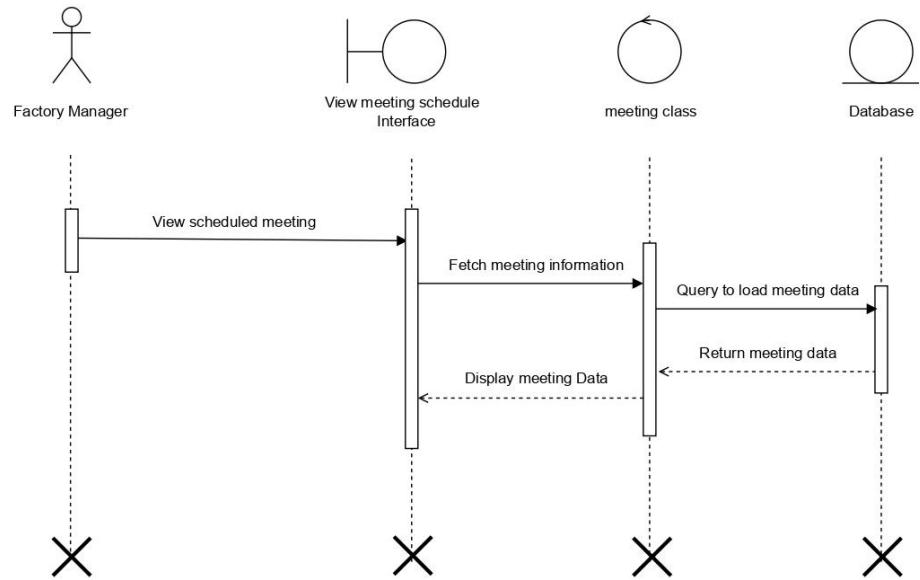


Figure 122: Sequence diagram 119

View Scheduled meeting

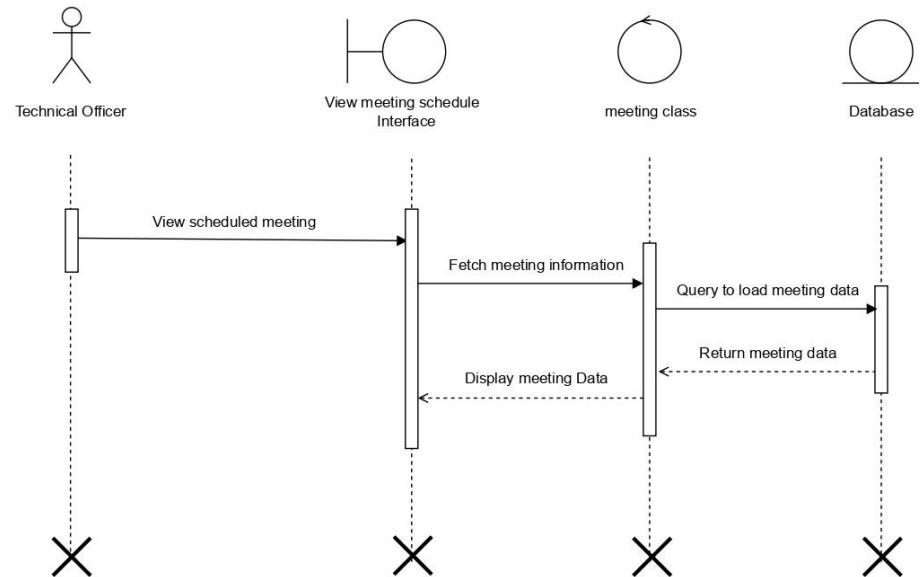


Figure 123: Sequence diagram 120

View Scheduled meeting

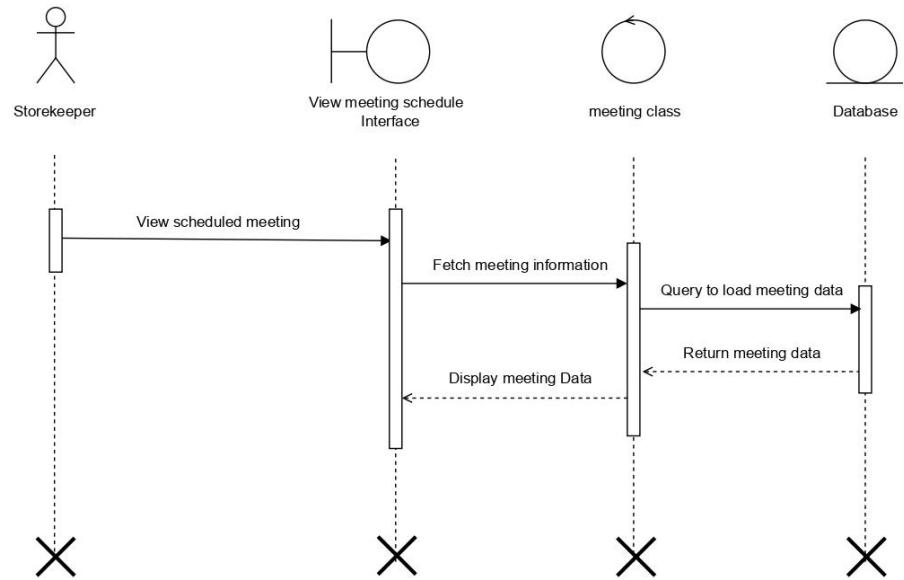


Figure 124: Sequence diagram 122

View Scheduled meeting

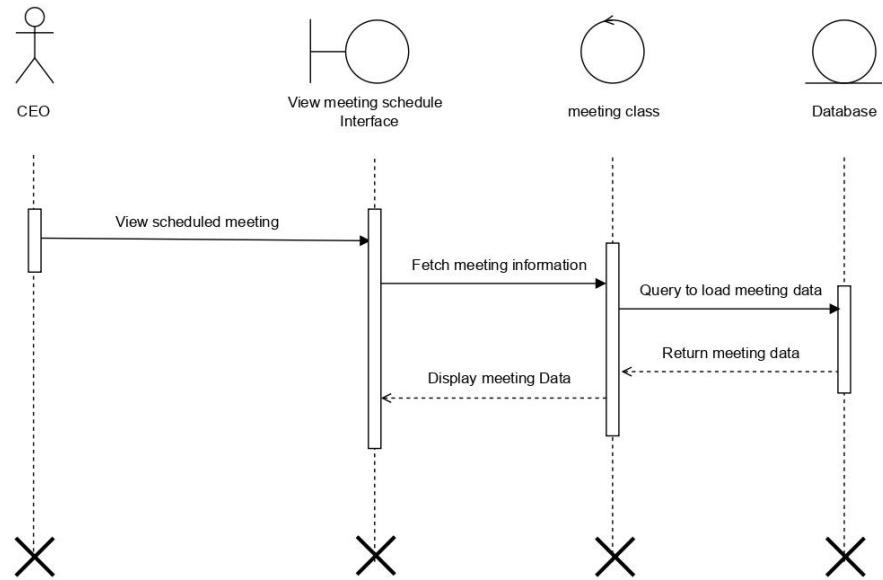


Figure 125: Sequence diagram 123

Send feedback

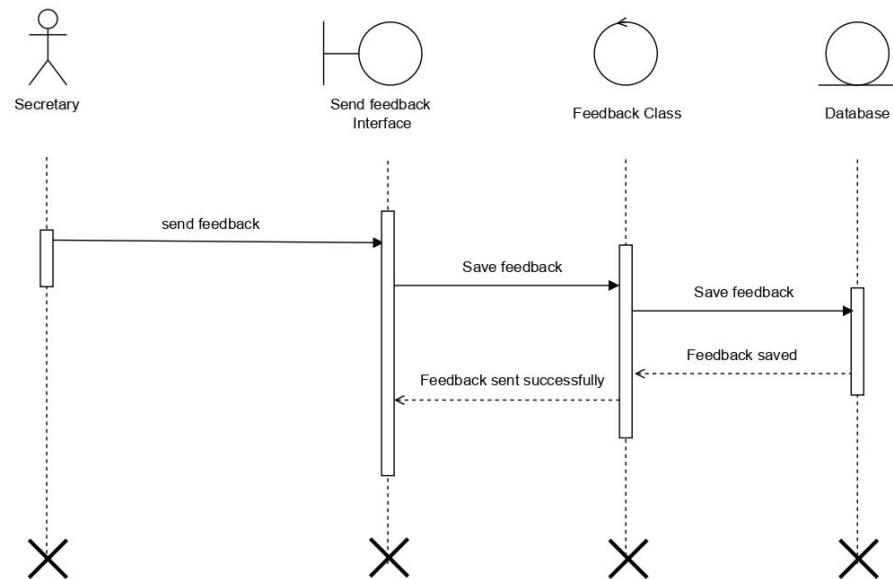


Figure 126: Sequence diagram 124

Send feedback

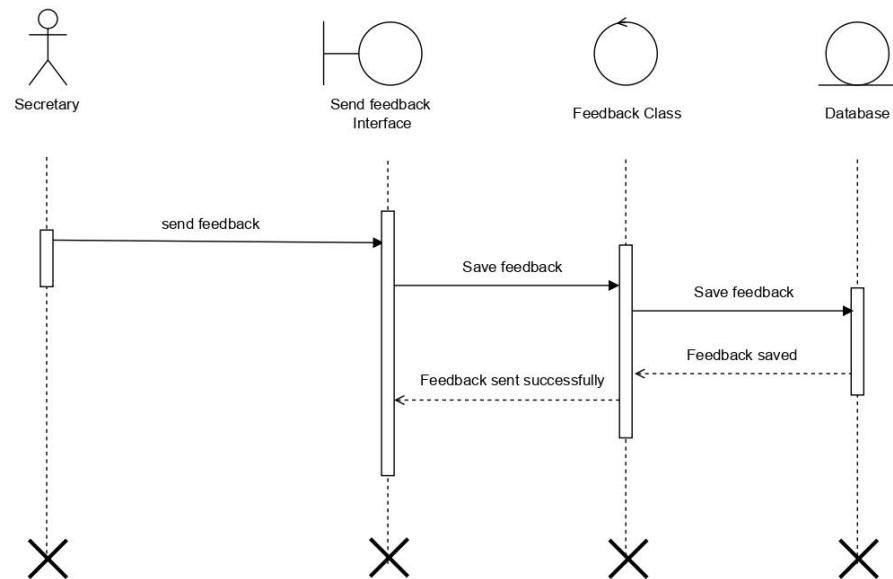


Figure 127: Sequence diagram 125

Send feedback

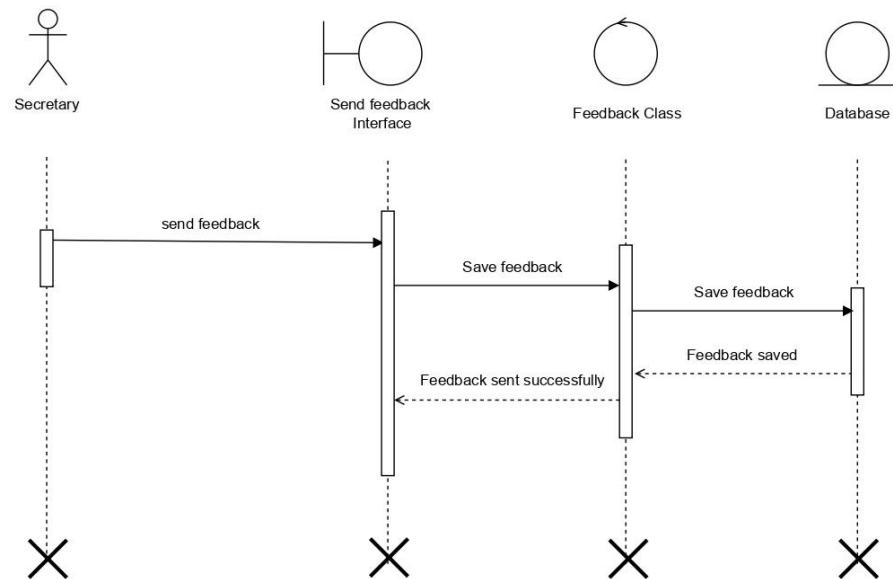


Figure 128: Sequence diagram 126

Send feedback

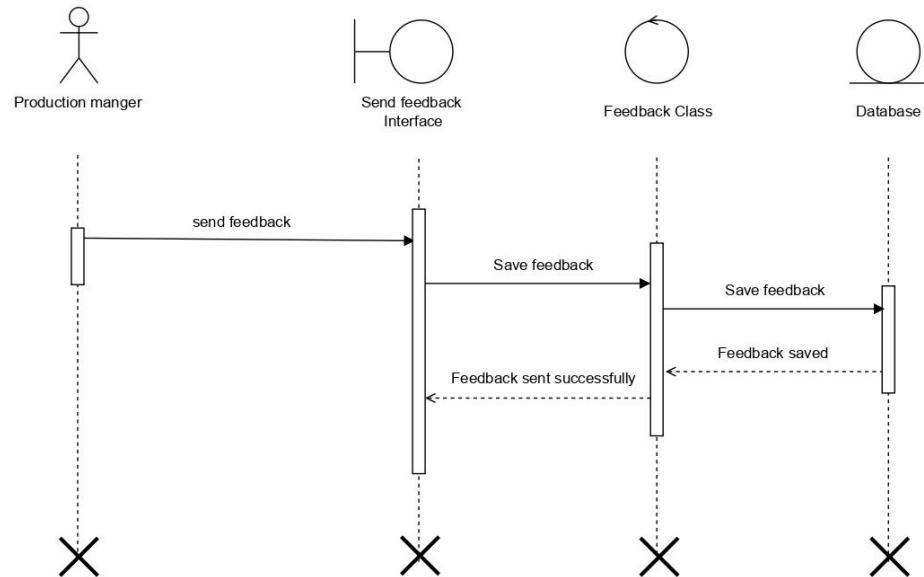


Figure 129: Sequence diagram 127

Log in and view dashboard

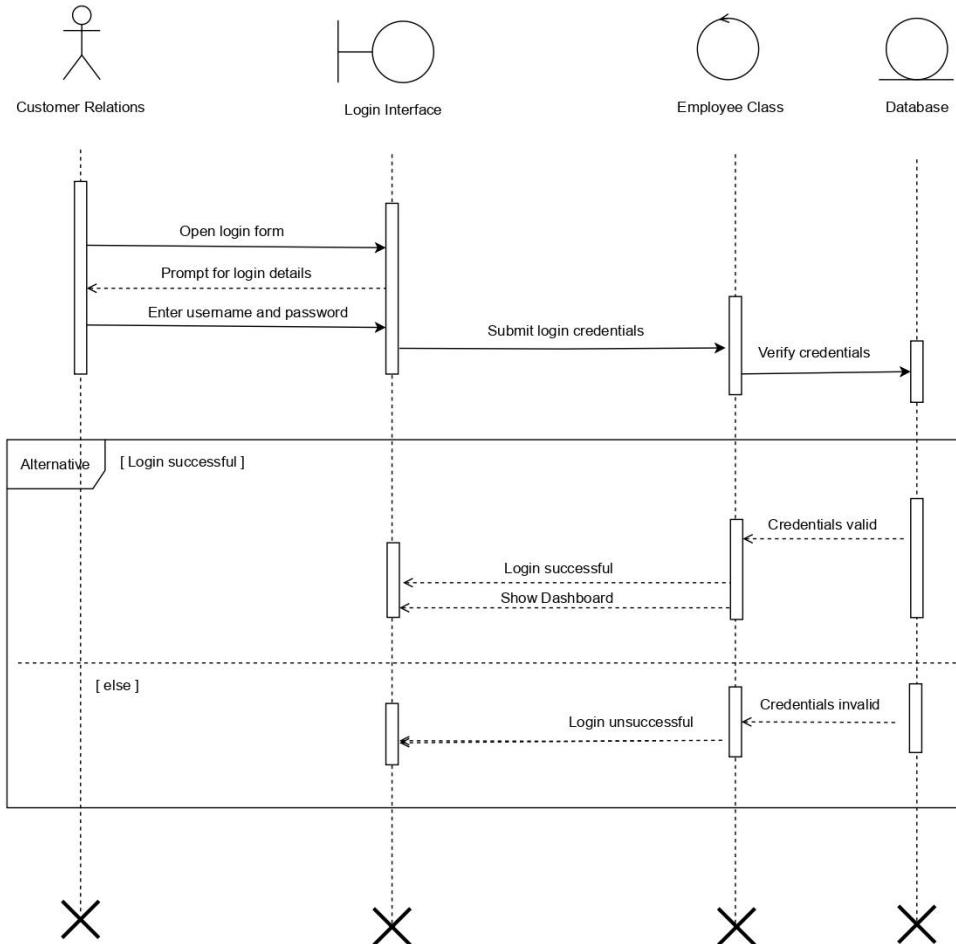


Figure 130: Sequence diagram 128

Log in and view dashboard

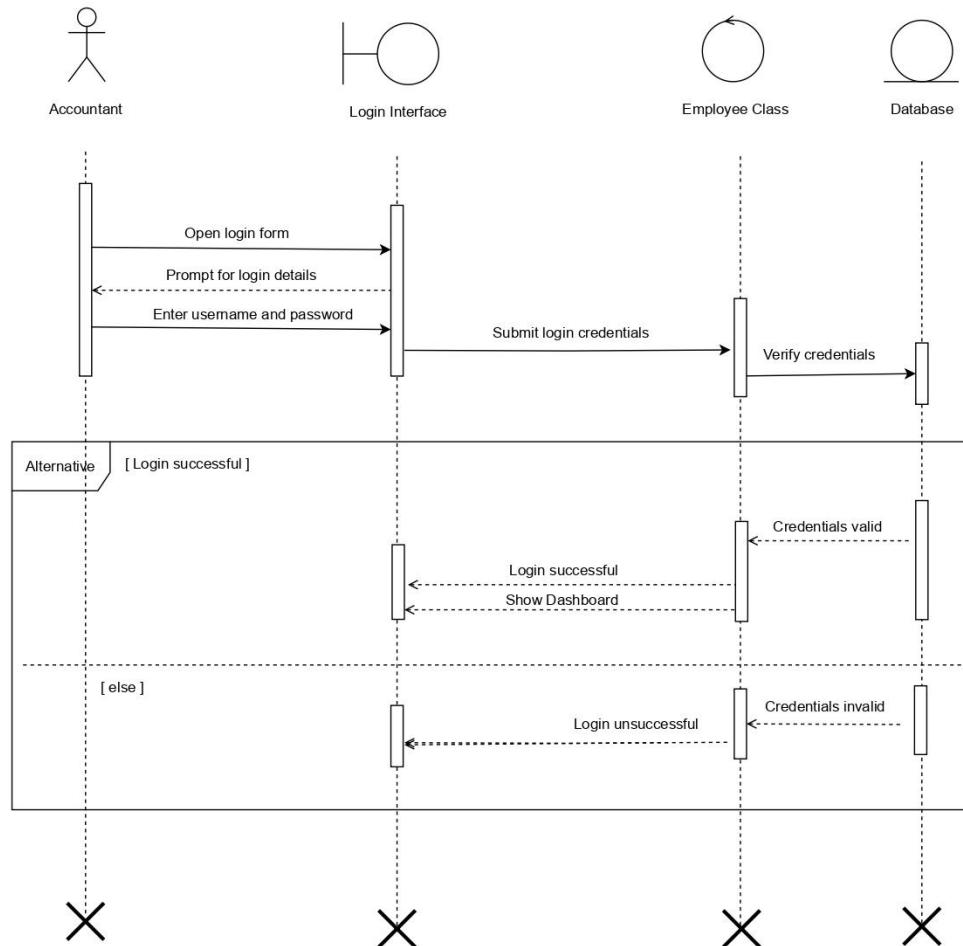


Figure 131: Sequence diagram 129

Log in and view dashboard

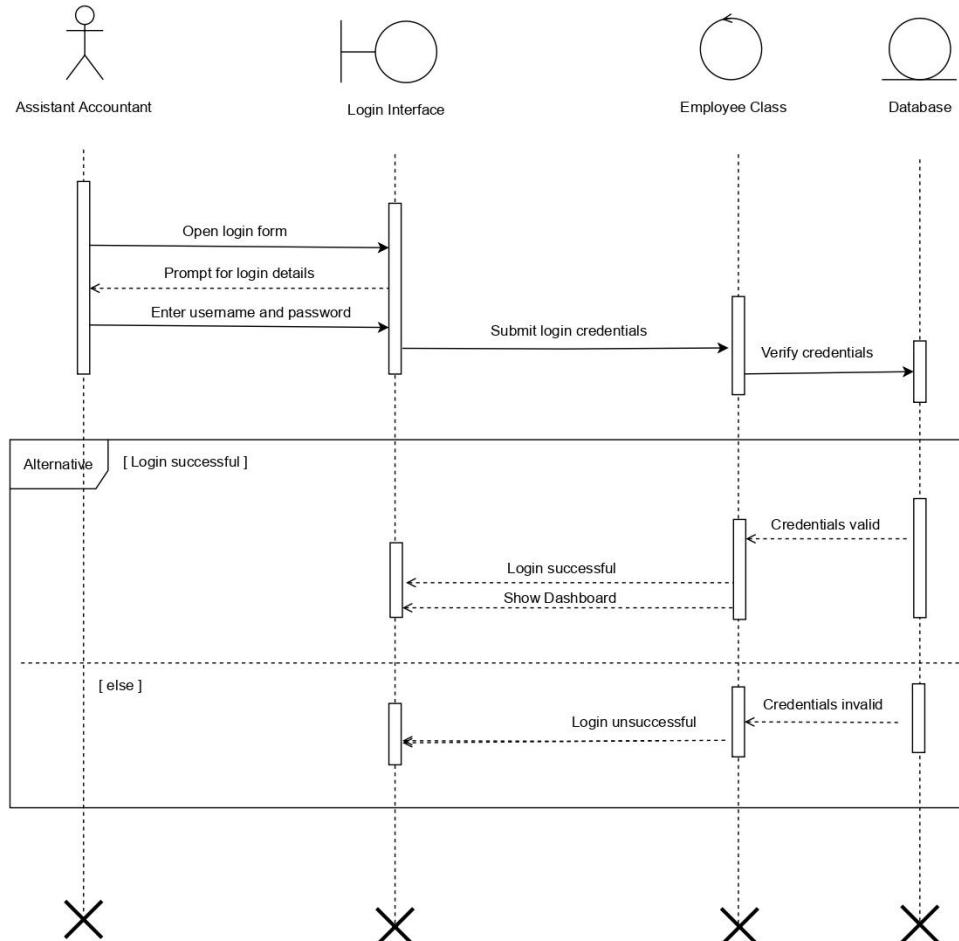


Figure 132: Sequence diagram 130

Log in and view dashboard

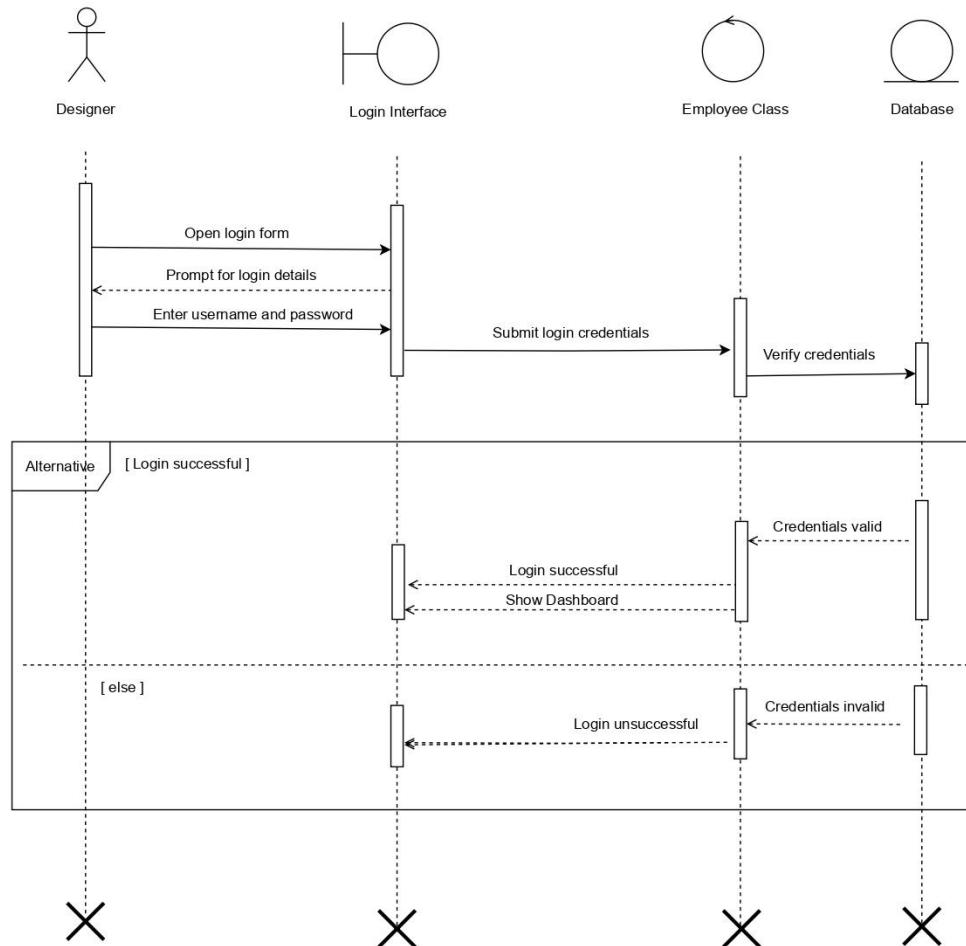


Figure 133: Sequence diagram 131

Log in and view dashboard

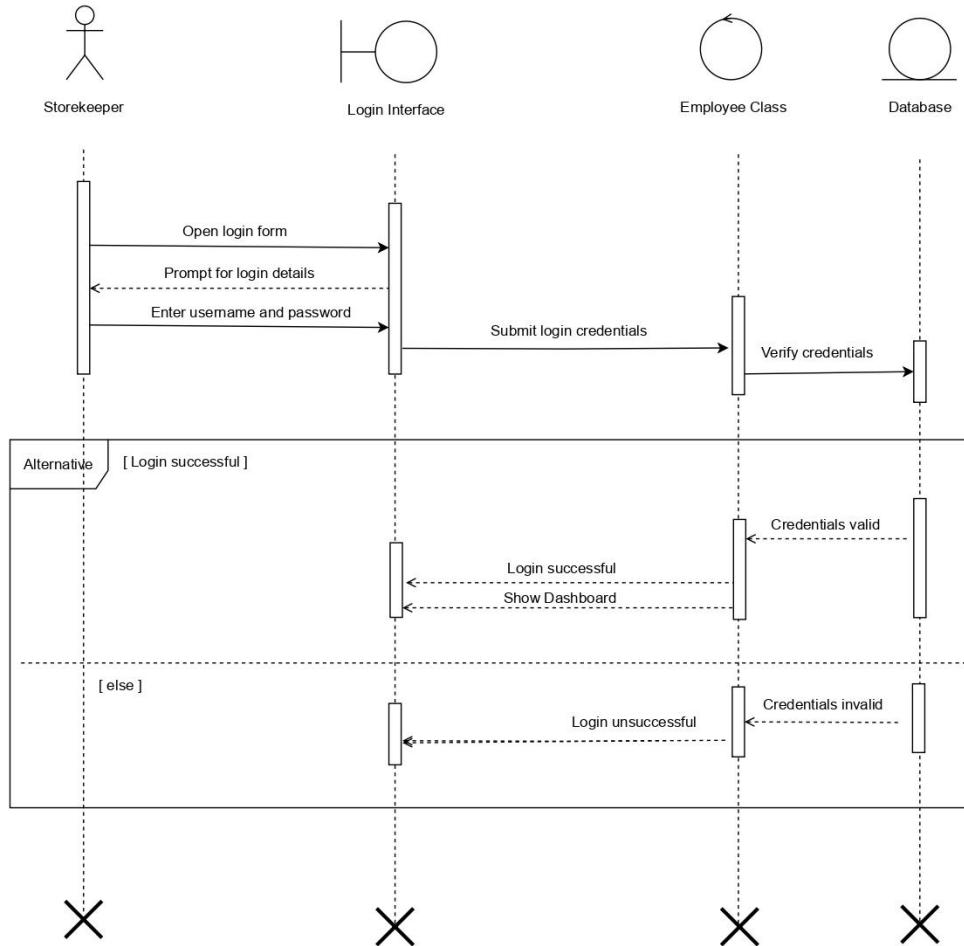


Figure 134: Sequence diagram 132

Mark and update employee attendance

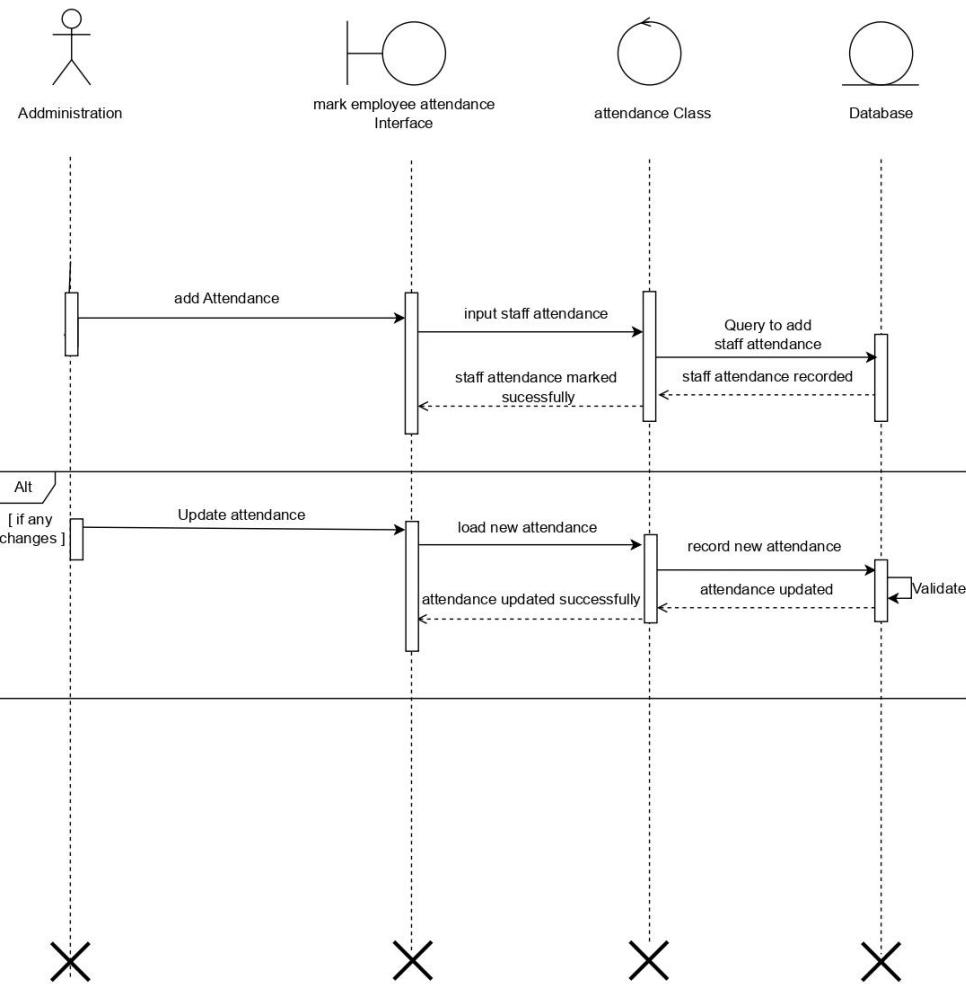


Figure 135: Sequence diagram 133

View, Add, Update and Delete orders

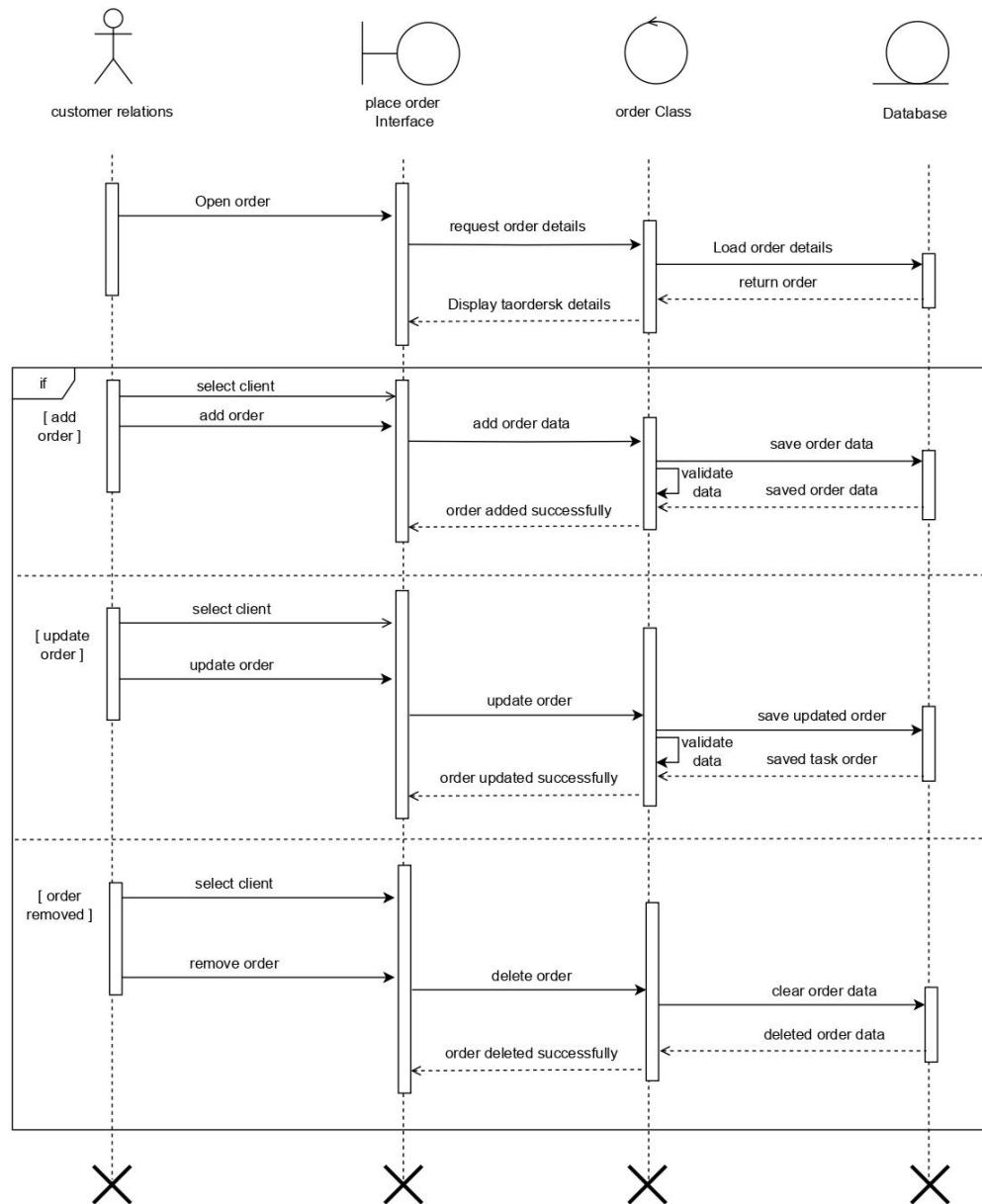


Figure 136: Sequence diagram 134

View project report

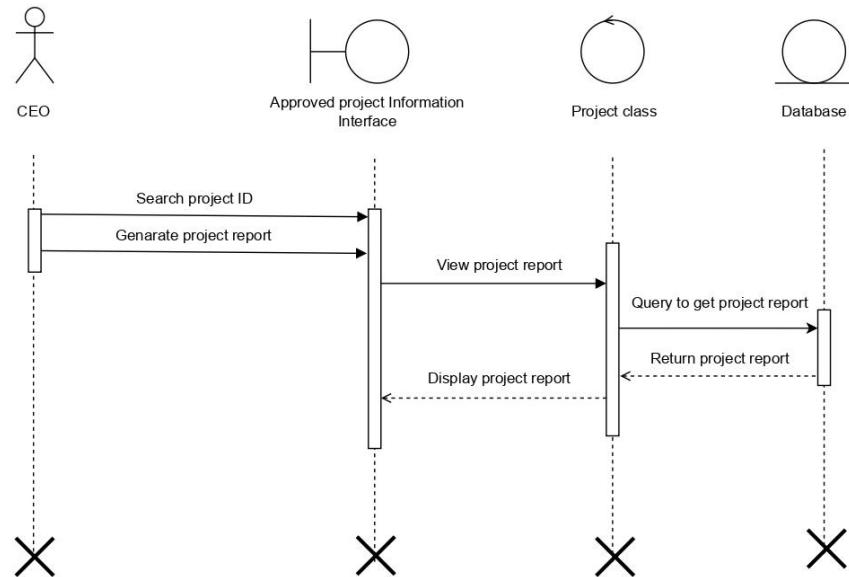


Figure 137: Sequence diagram 135

View, Add, Update and Delete Project cost

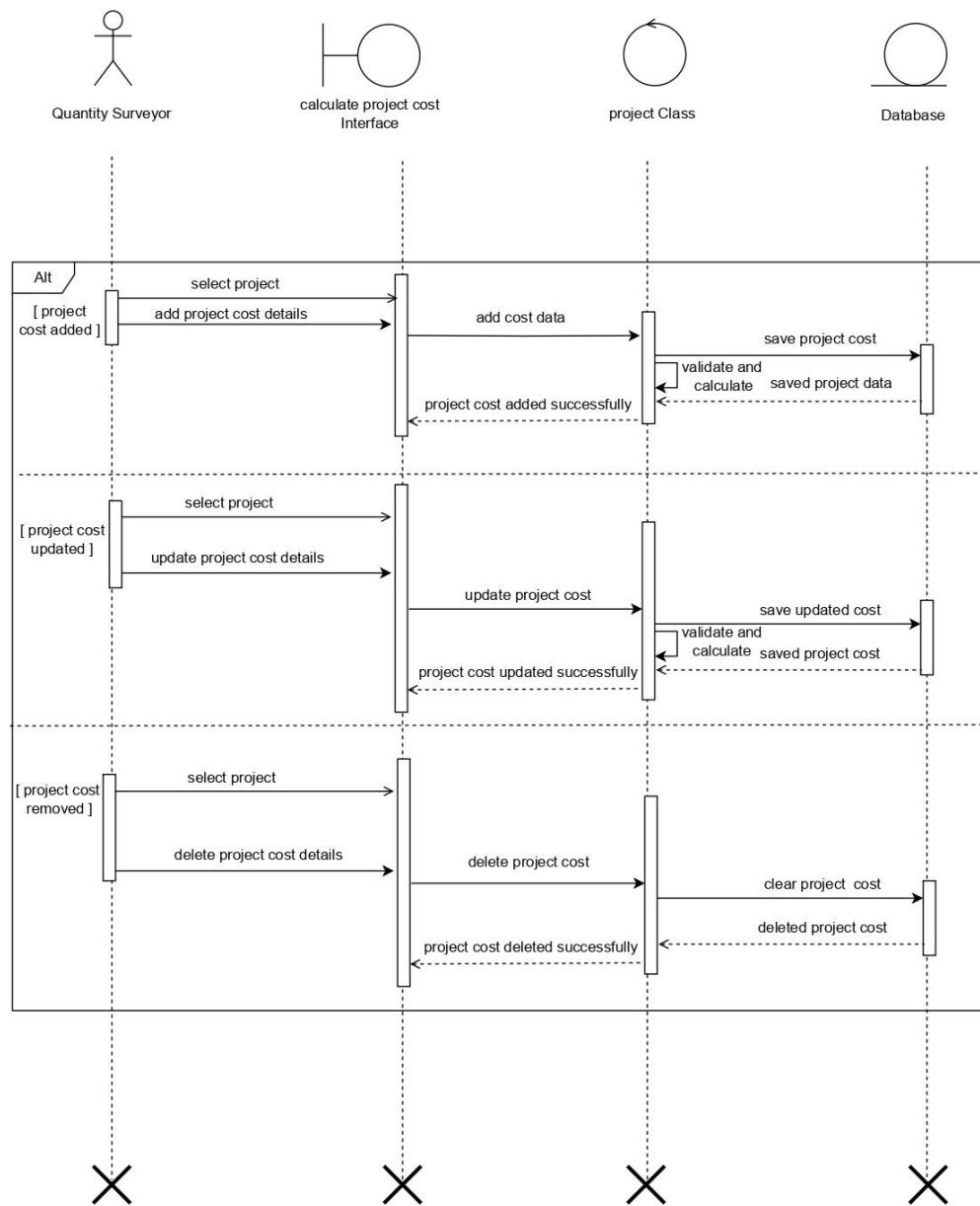


Figure 138: Sequence diagram 136

View project report

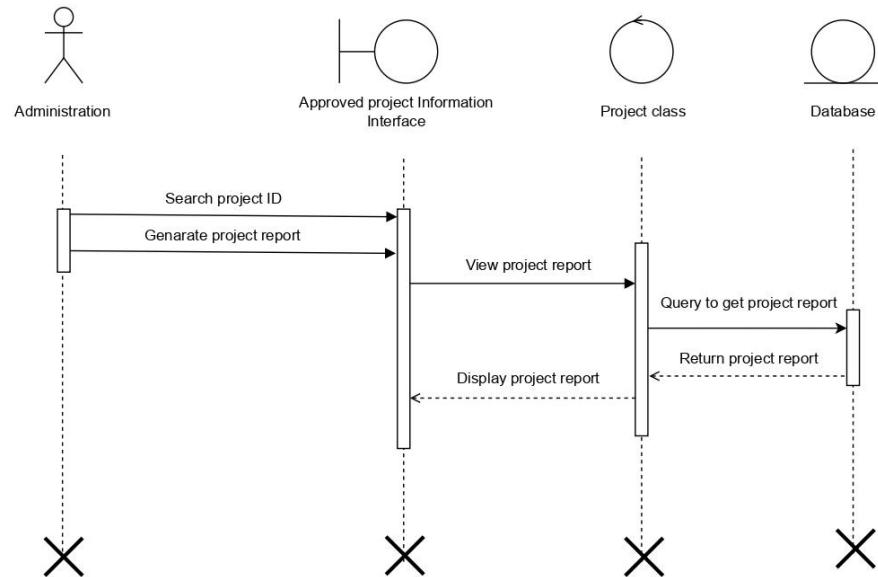


Figure 139: Sequence diagram 137

View project report

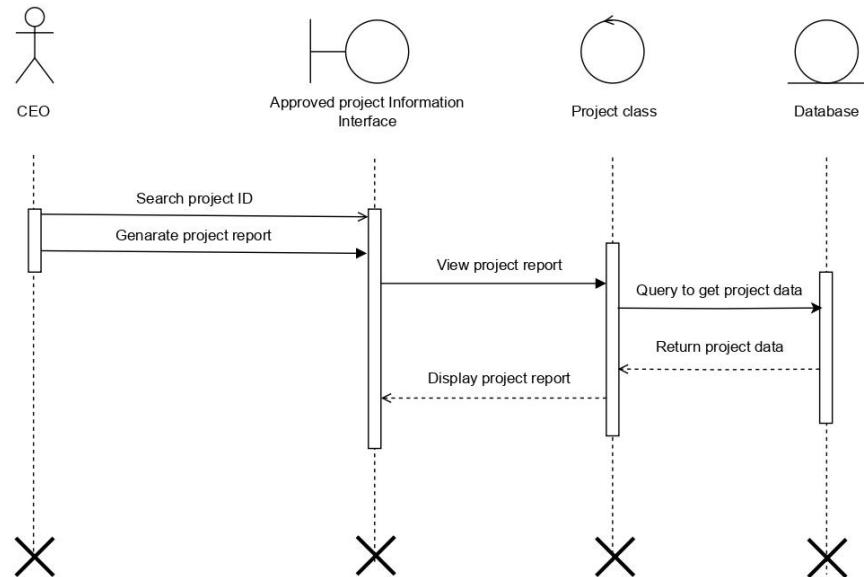


Figure 140: Sequence diagram 138

Register to the system

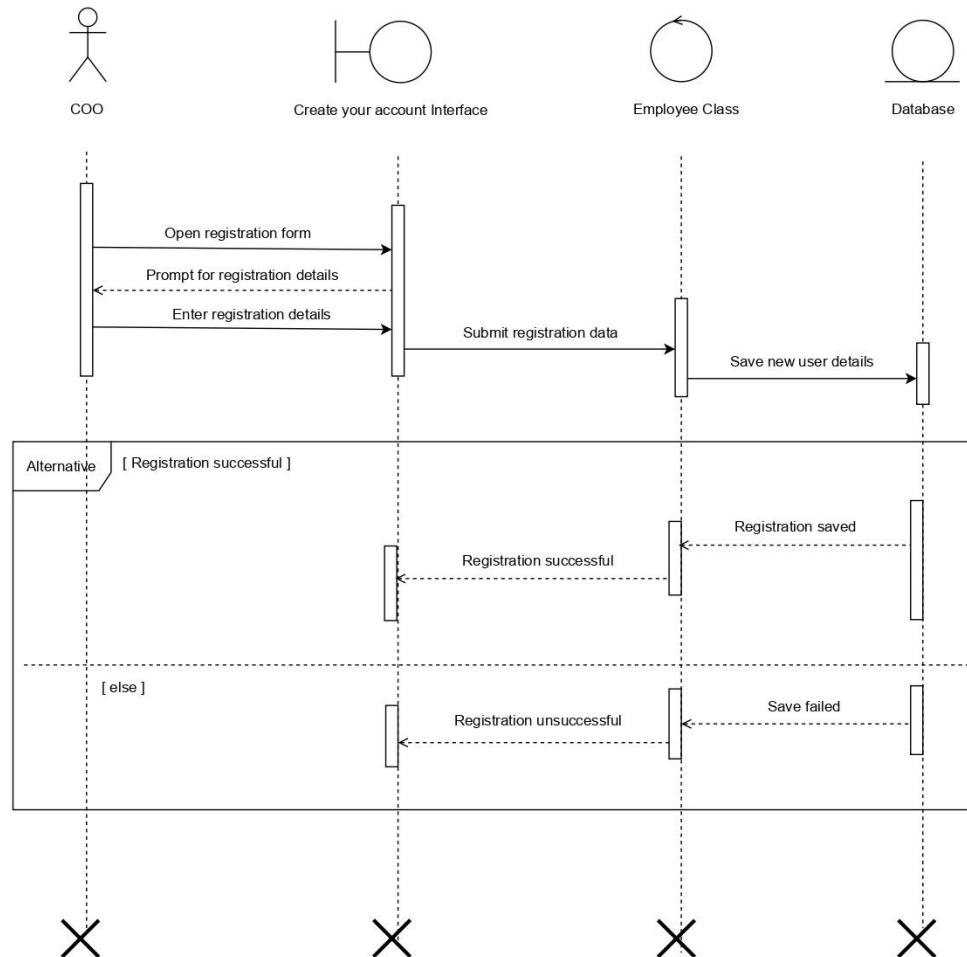


Figure 141: Sequence diagram 139

View, add , update , delete raw materials

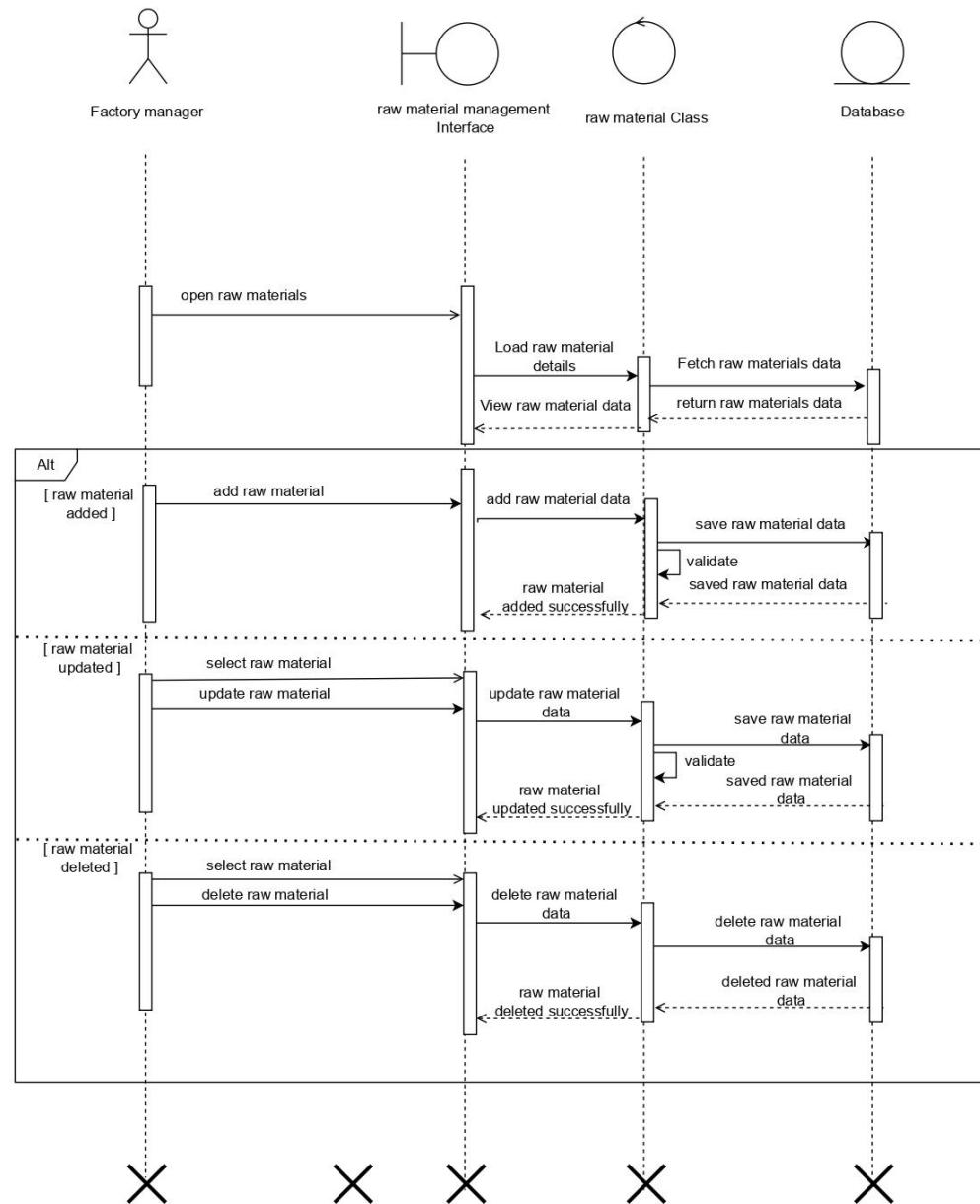


Figure 142: Sequence diagram 140

Register to the system

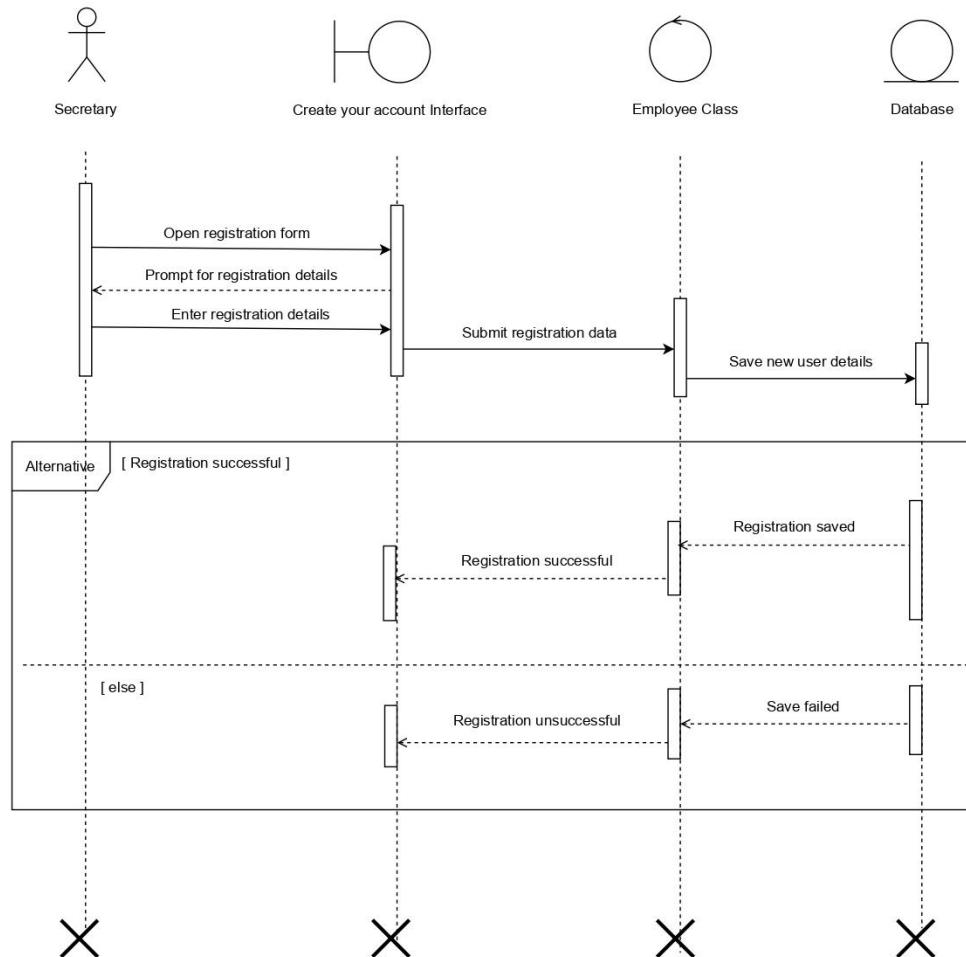


Figure 143: Sequence diagram 141

Register to the system

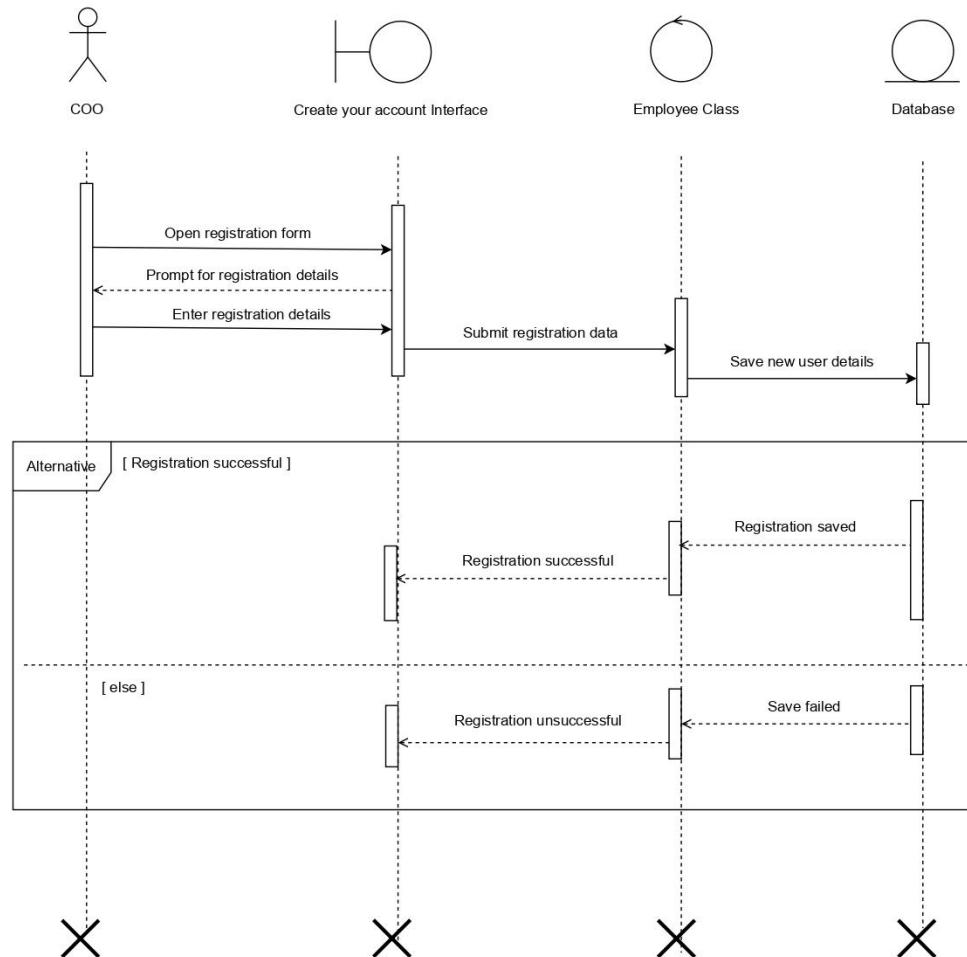


Figure 144: Sequence diagram 142

Register to the system

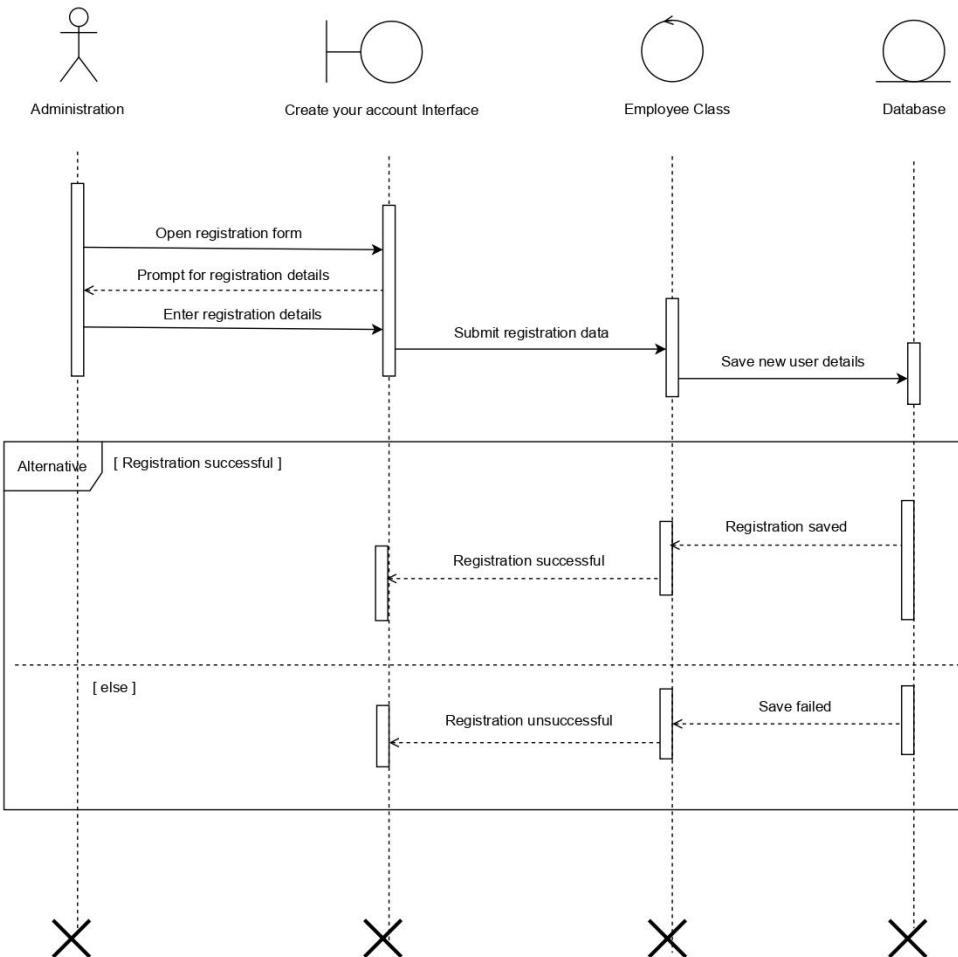


Figure 145: Sequence diagram 143

Register to the system

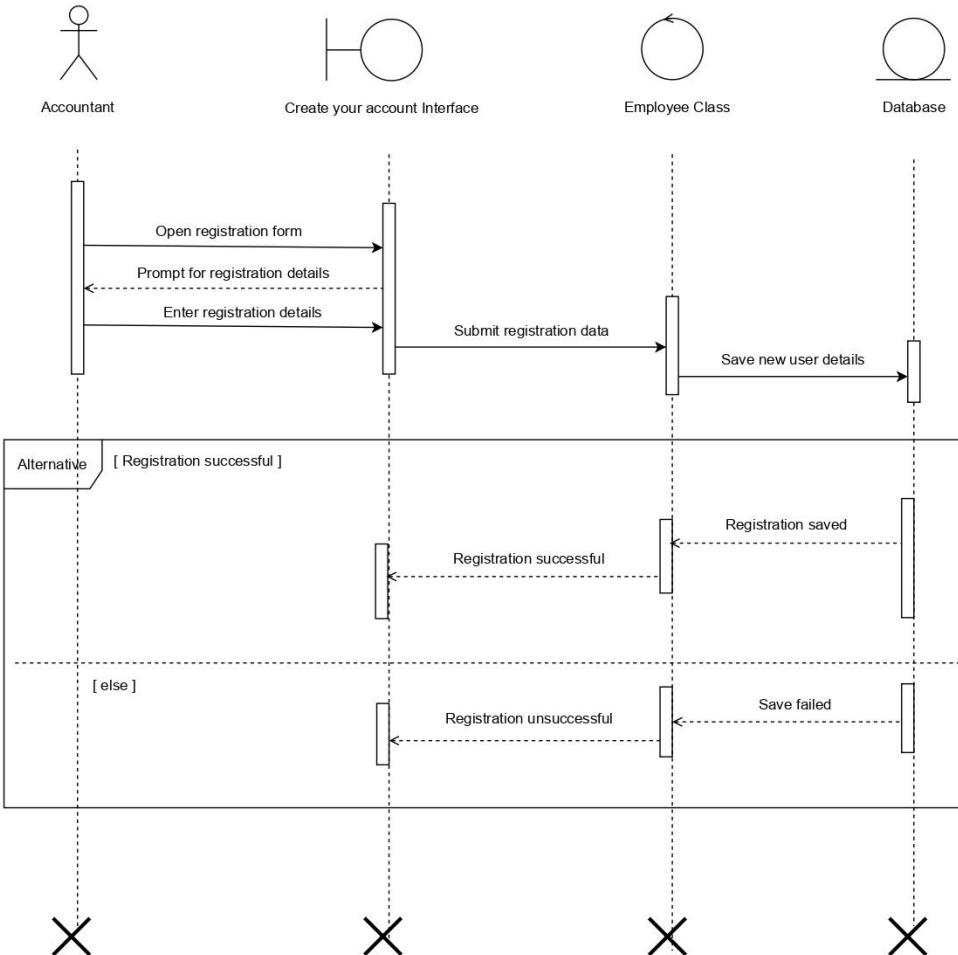


Figure 146: Sequence diagram 144

Register to the system

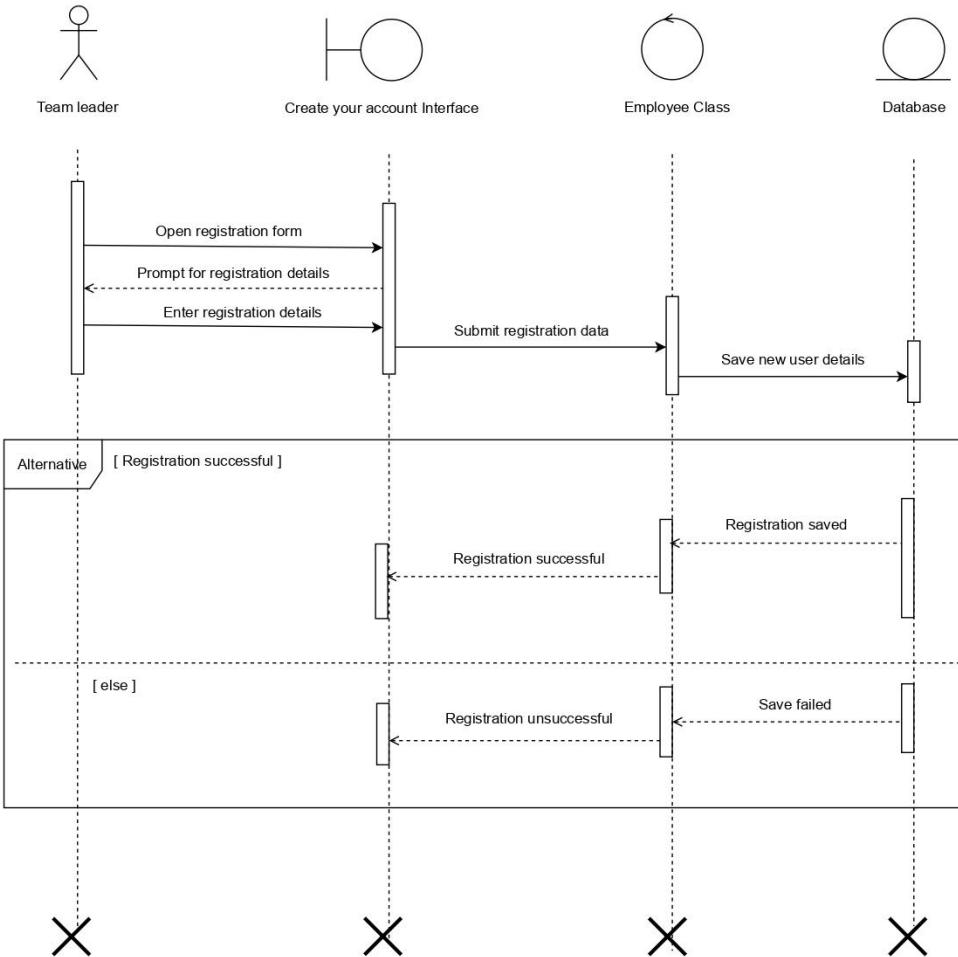


Figure 147: Sequence diagram 145

Register to the system

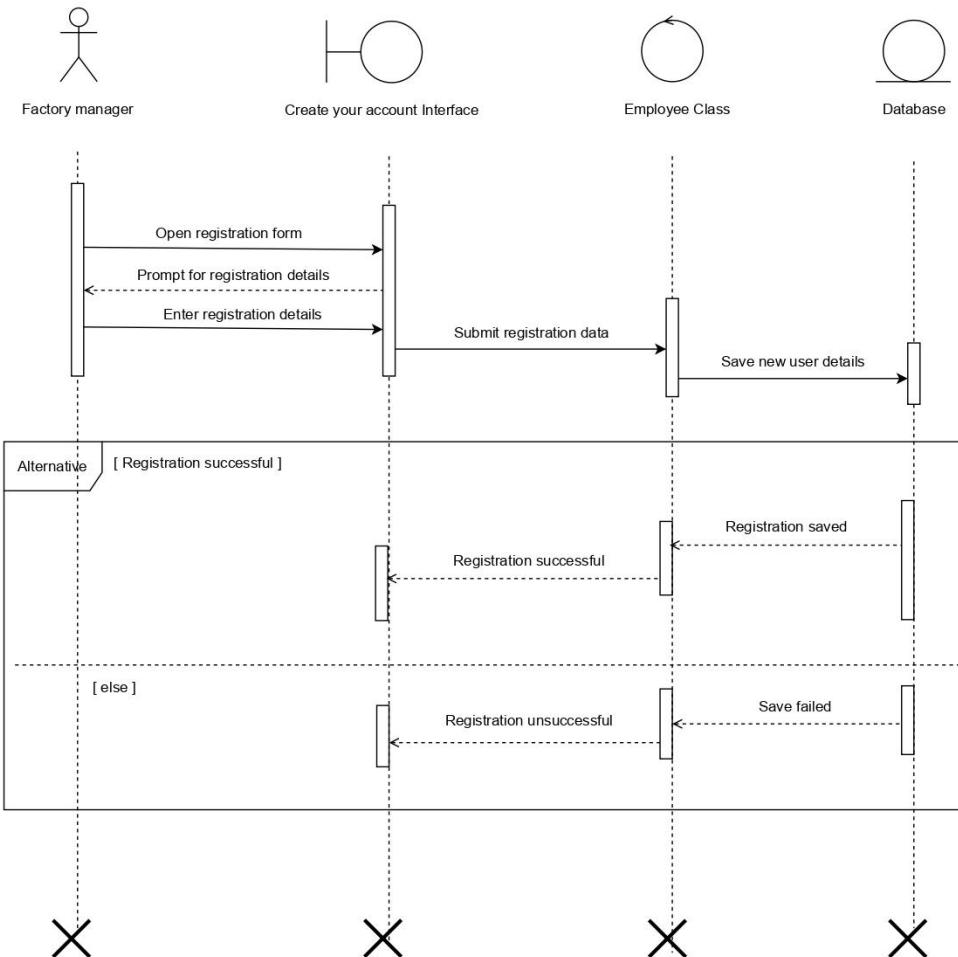


Figure 148: Sequence diagram 146

Register to the system

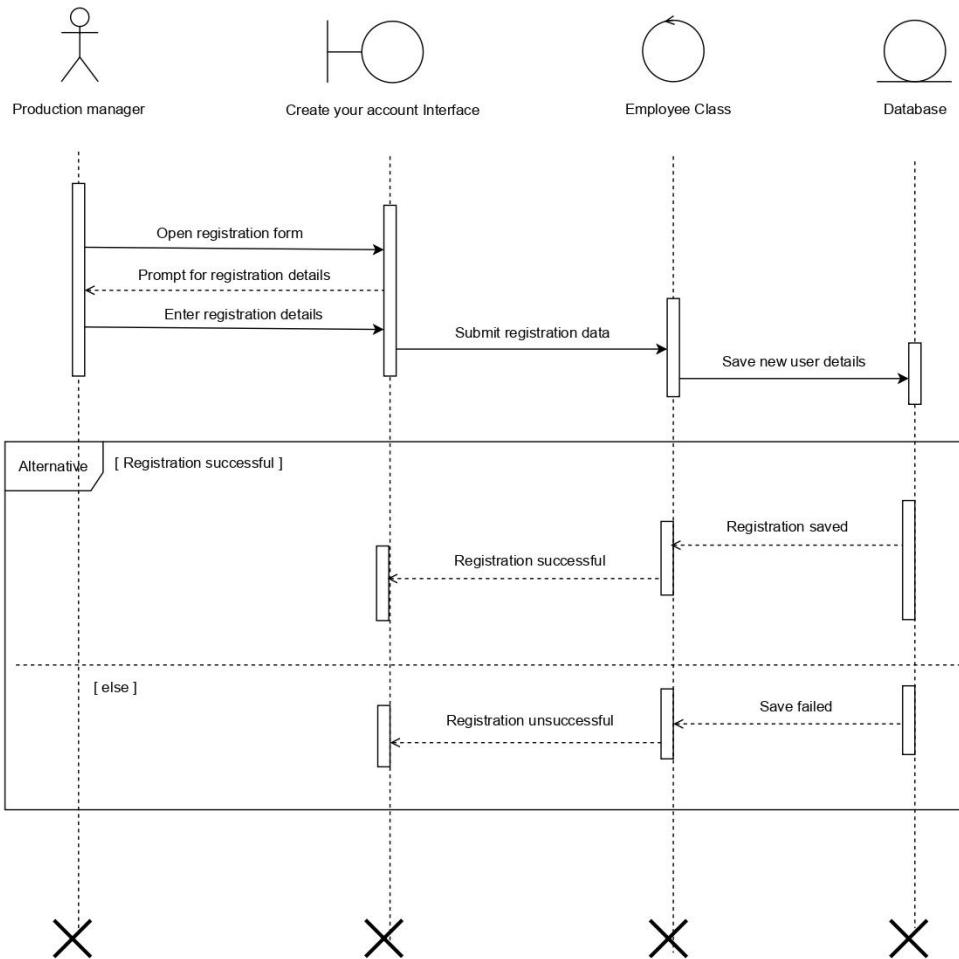


Figure 149: Sequence diagram 147

Register to the system

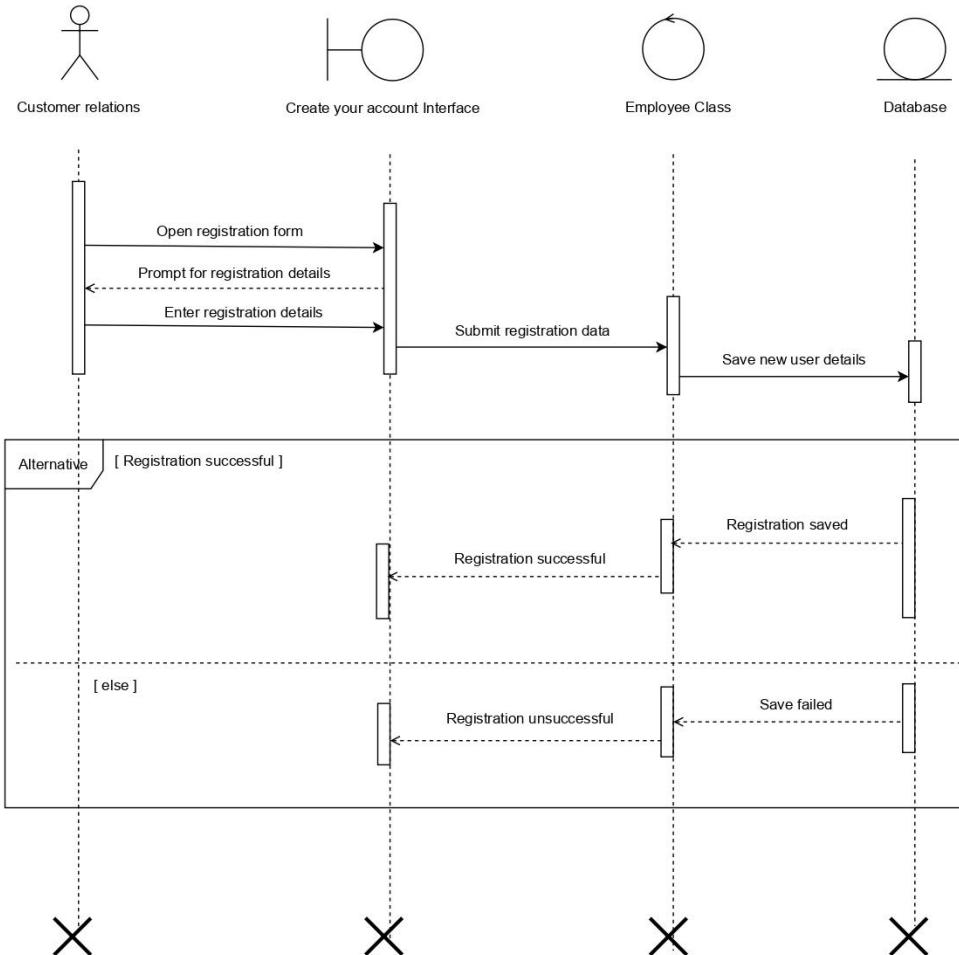


Figure 150: Sequence diagram 148

Register to the system

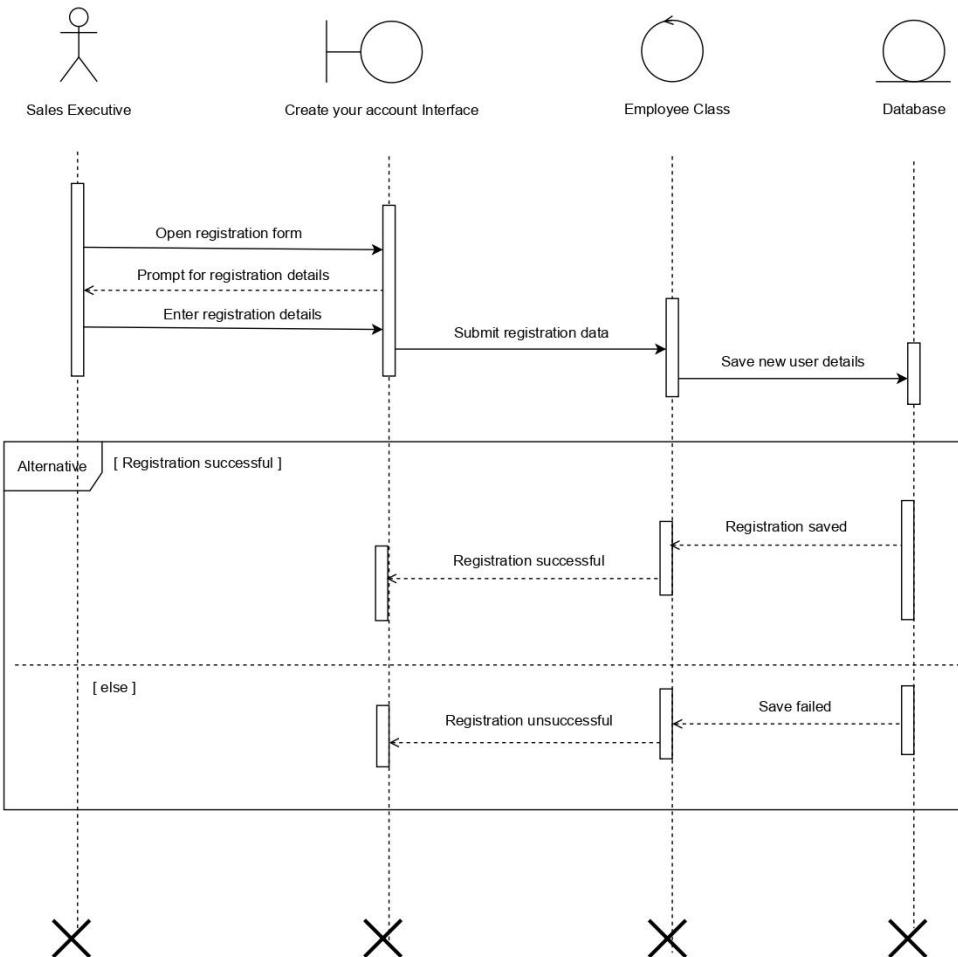


Figure 151: Sequence diagram 149

Register to the system

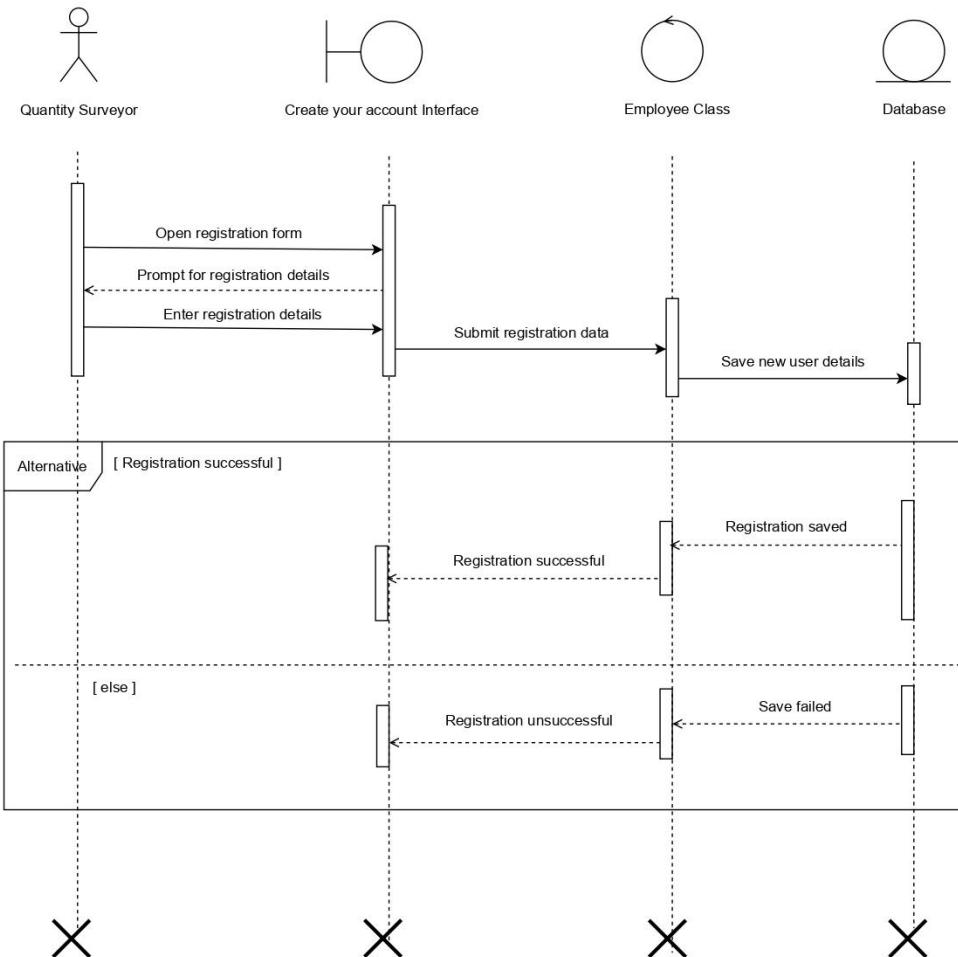


Figure 152: Sequence diagram 150

Register to the system

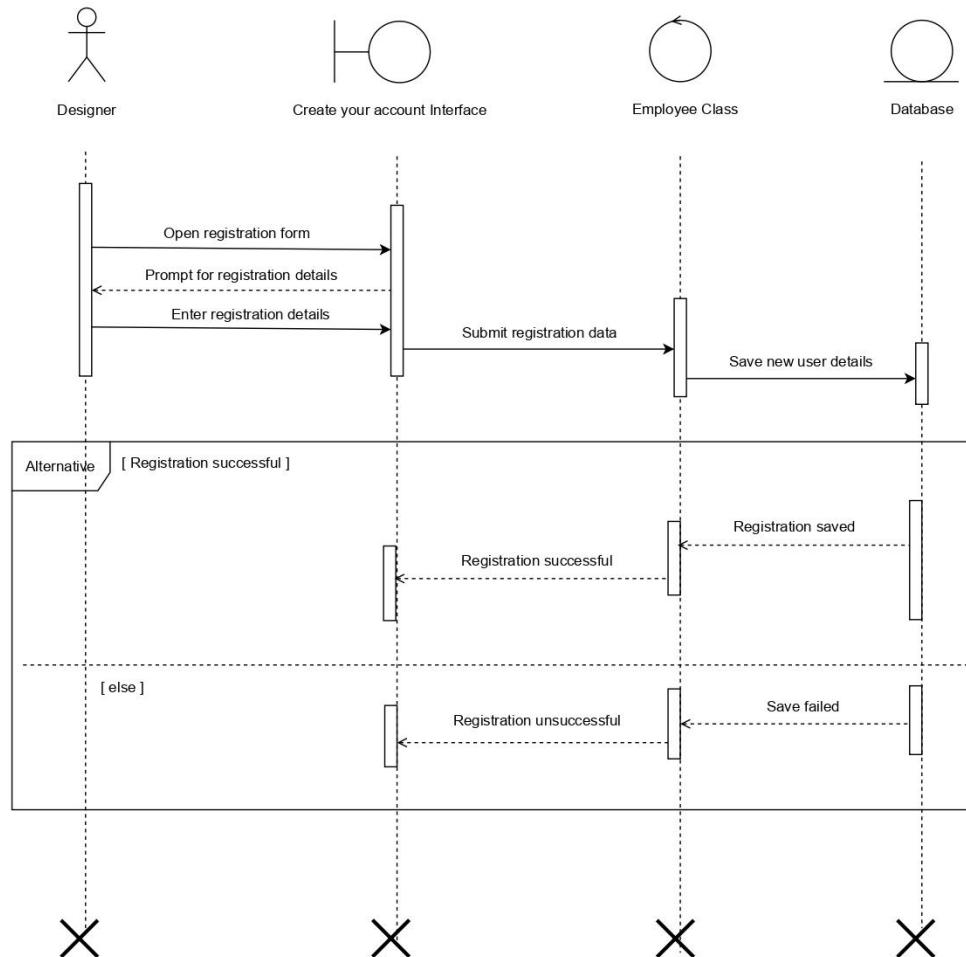


Figure 153: Sequence diagram 151

Create daily, weekly, monthly inventory reports

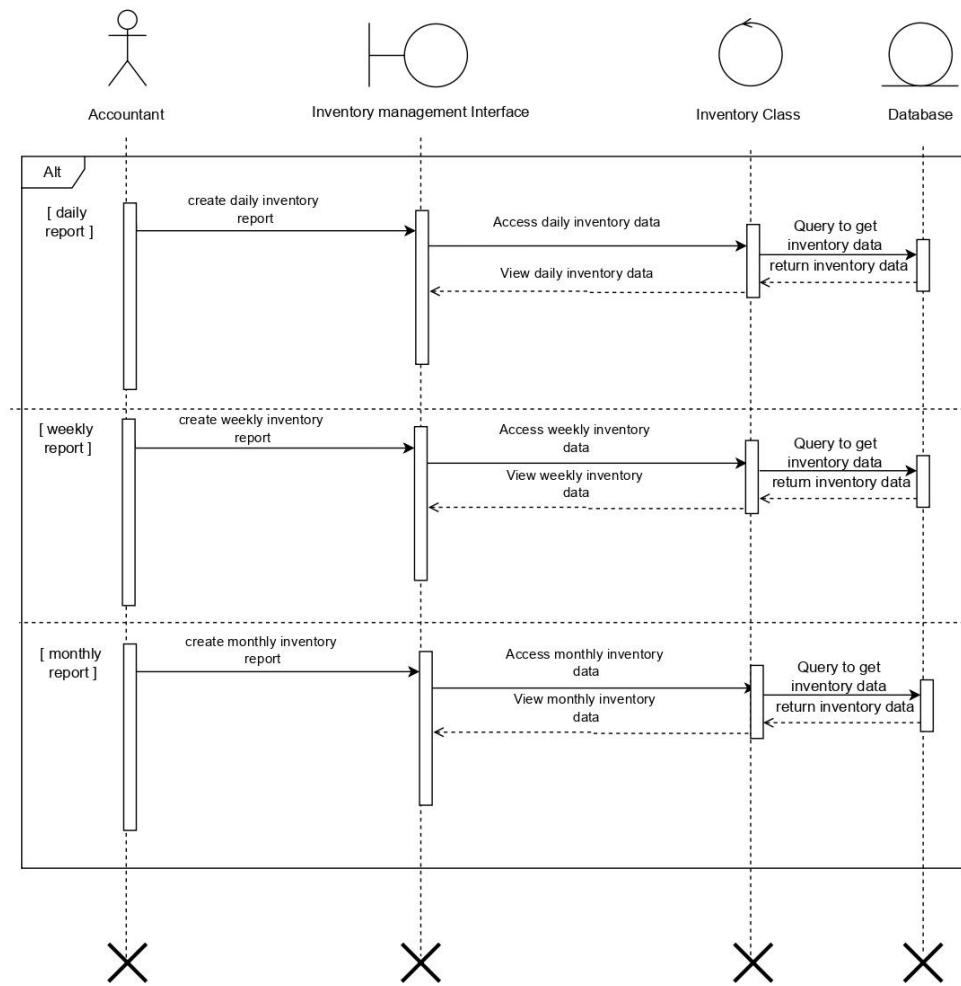


Figure 154: Sequence diagram 152

Logout

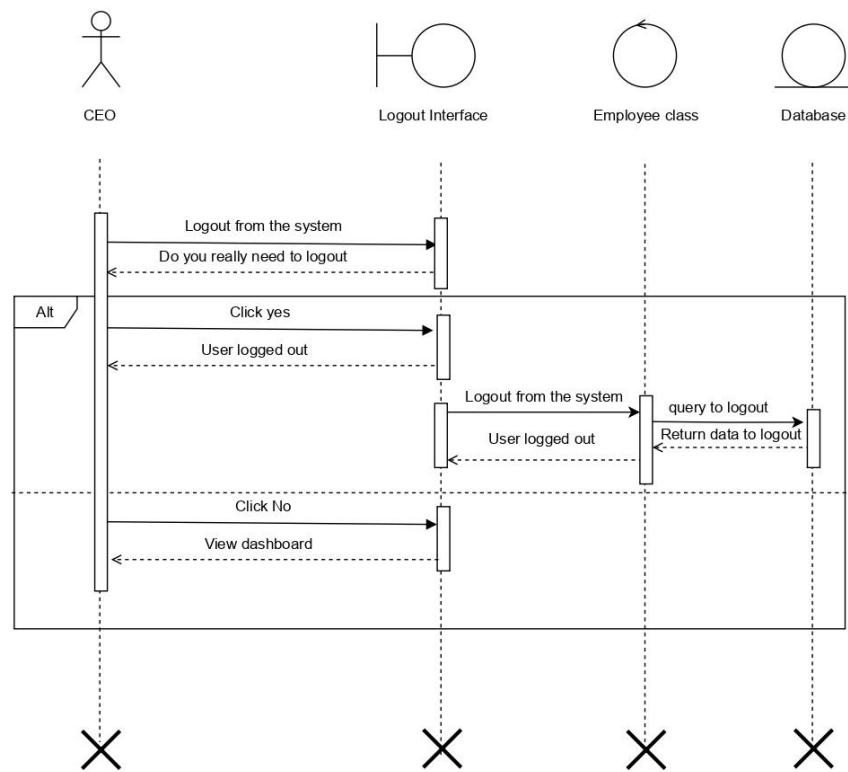


Figure 155: Sequence diagram 153

Logout

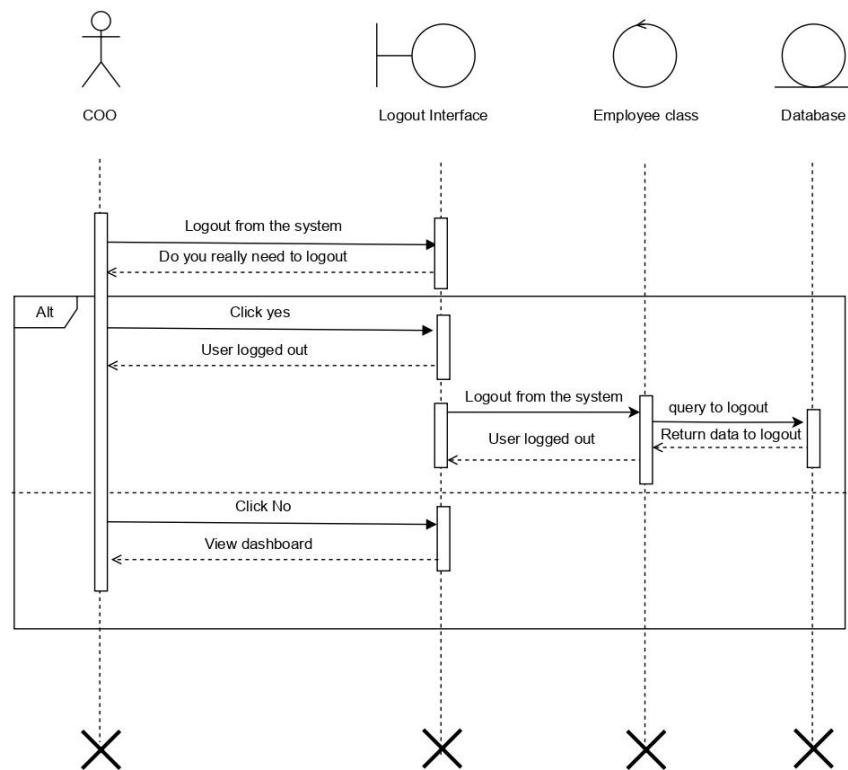


Figure 156: Sequence diagram 154

[Logout](#)

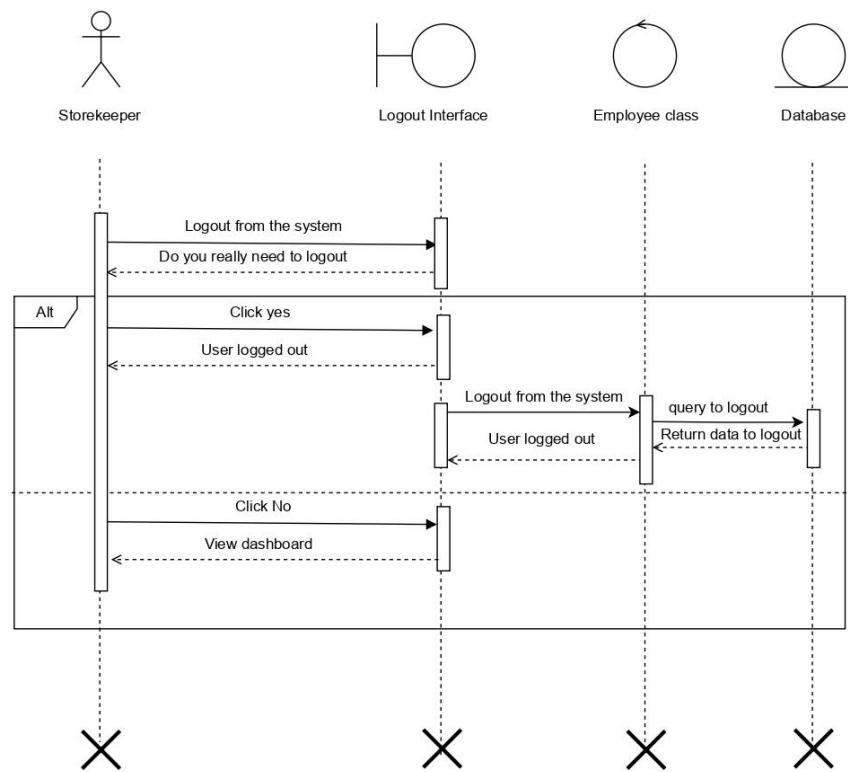


Figure 157: Sequence diagram 155

Logout

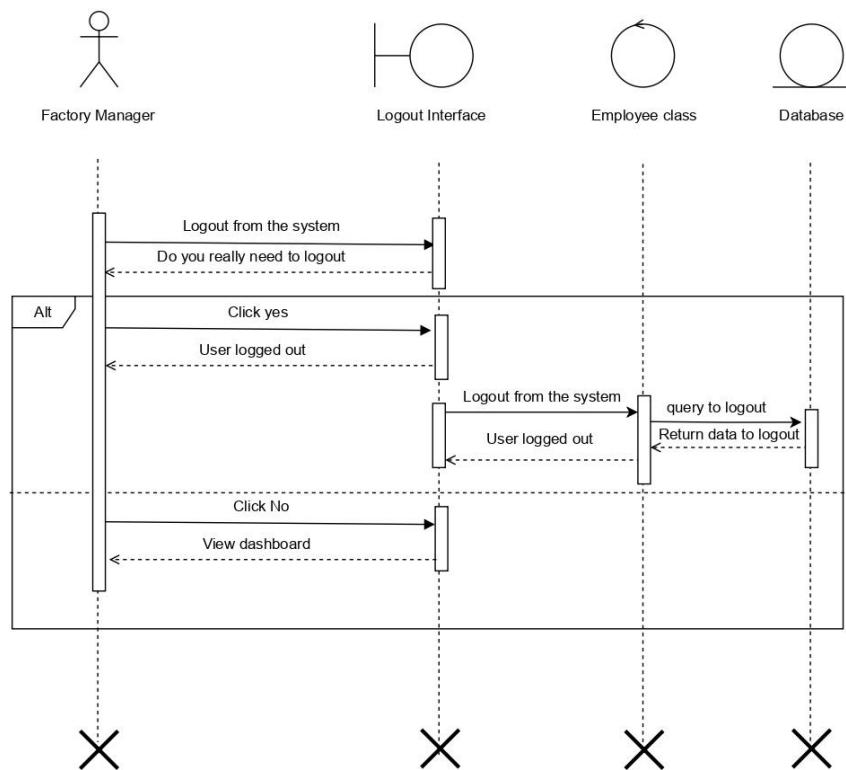


Figure 158: Sequence diagram 156

Logout

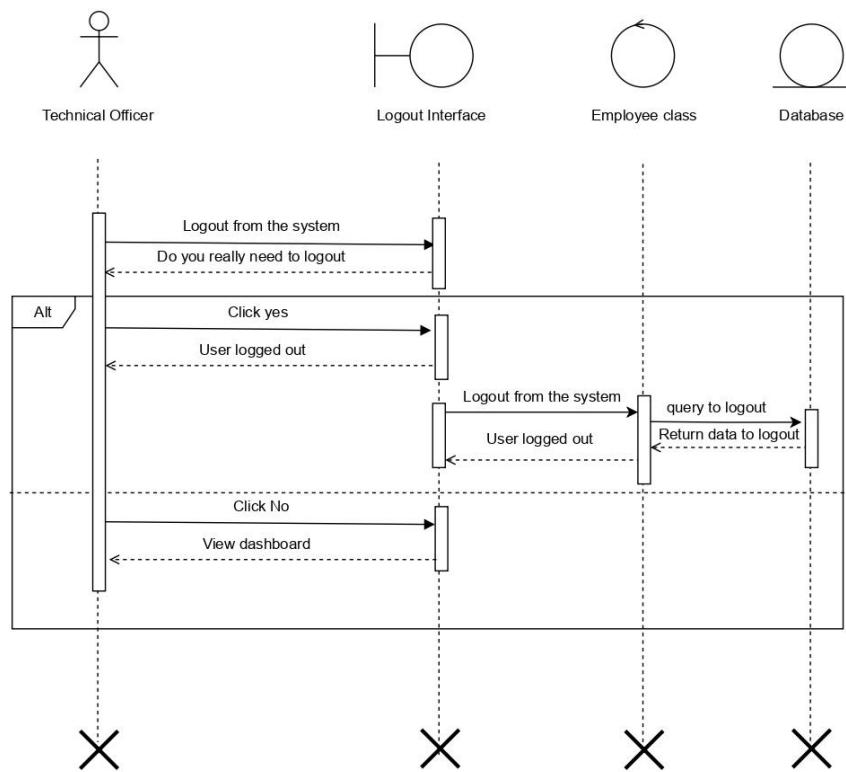


Figure 159: Sequence diagram 157

Logout

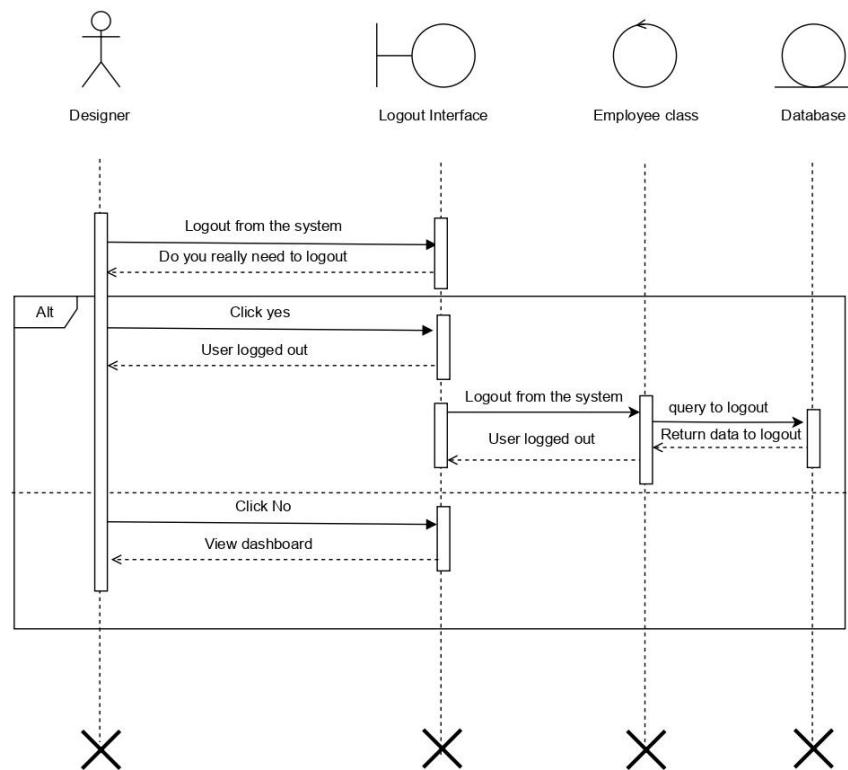


Figure 160: Sequence diagram 158

Logout

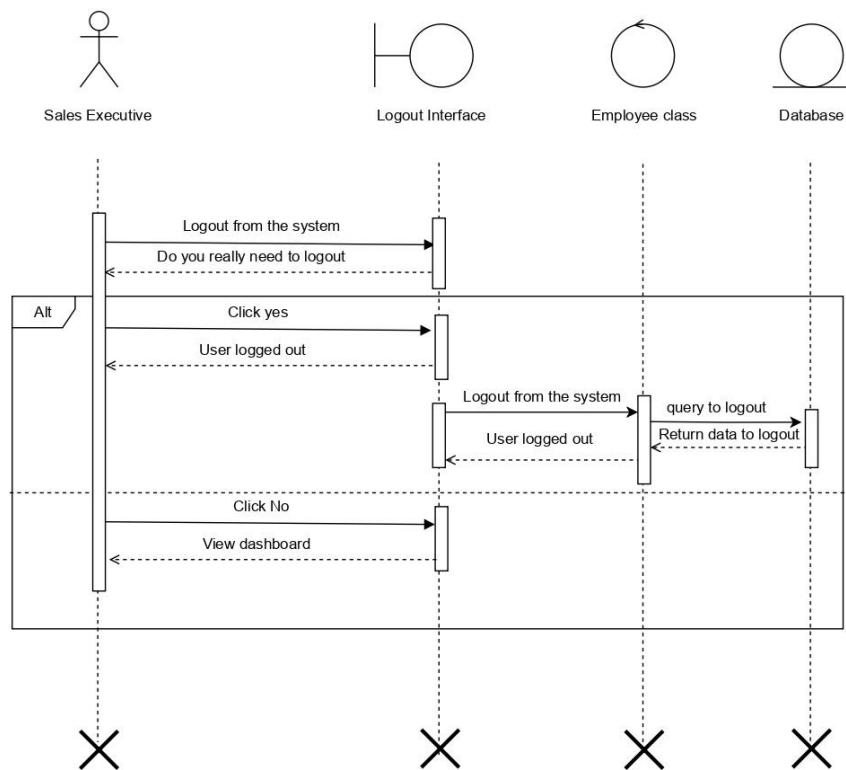


Figure 161: Sequence diagram 159

Logout

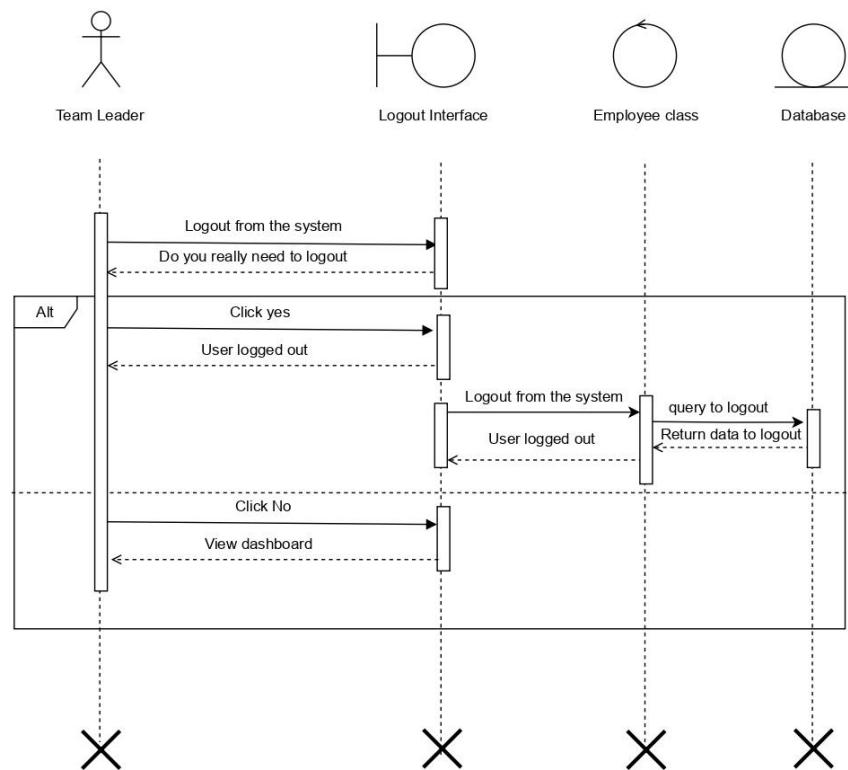


Figure 162: Sequence diagram 160

Logout

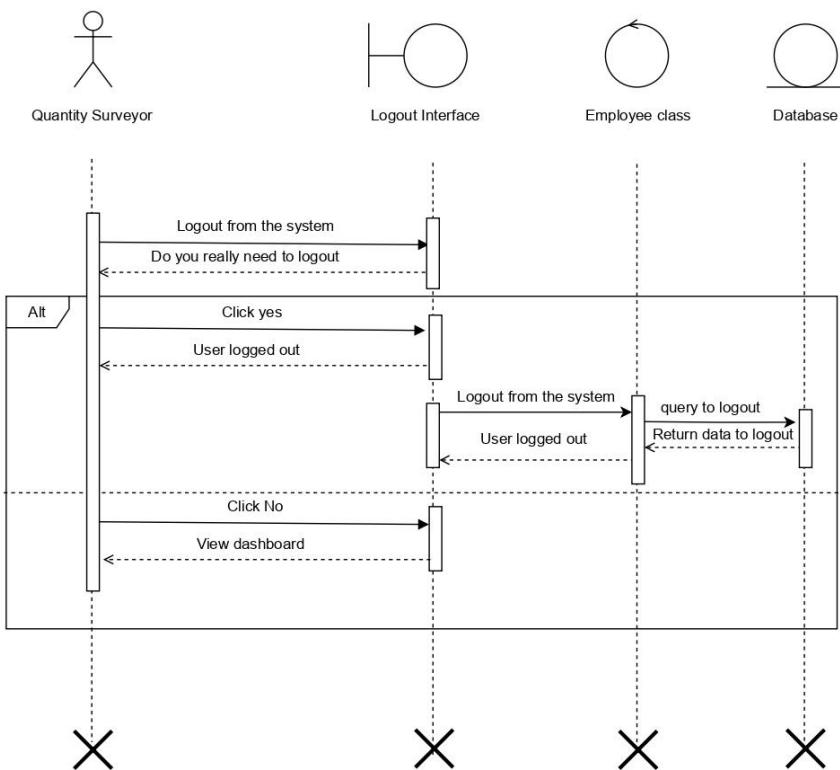


Figure 163: Sequence diagram 161

Logout

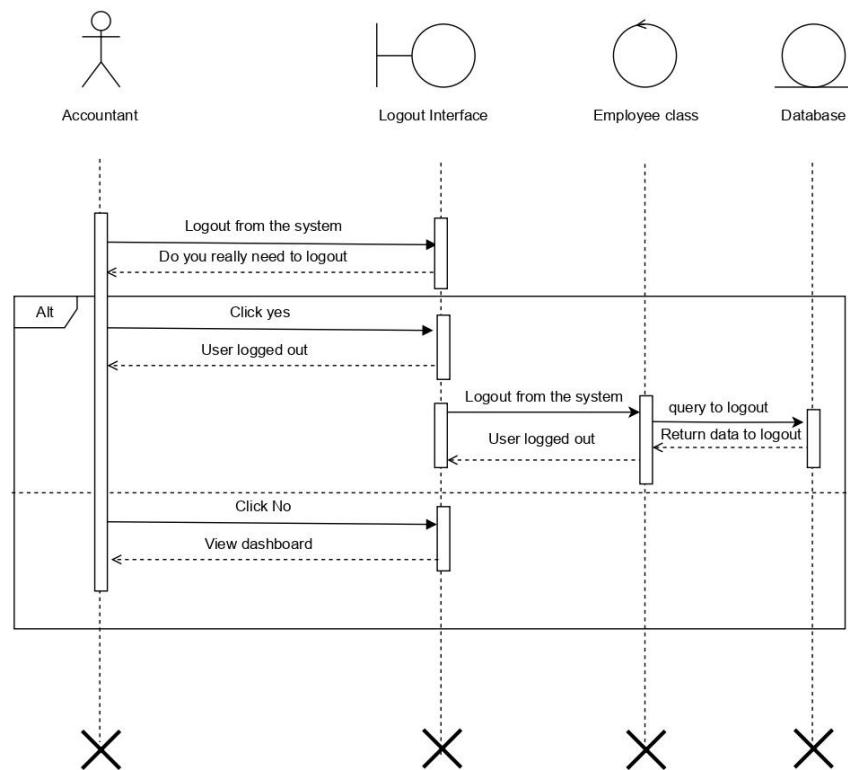


Figure 164: Sequence diagram 162

Logout

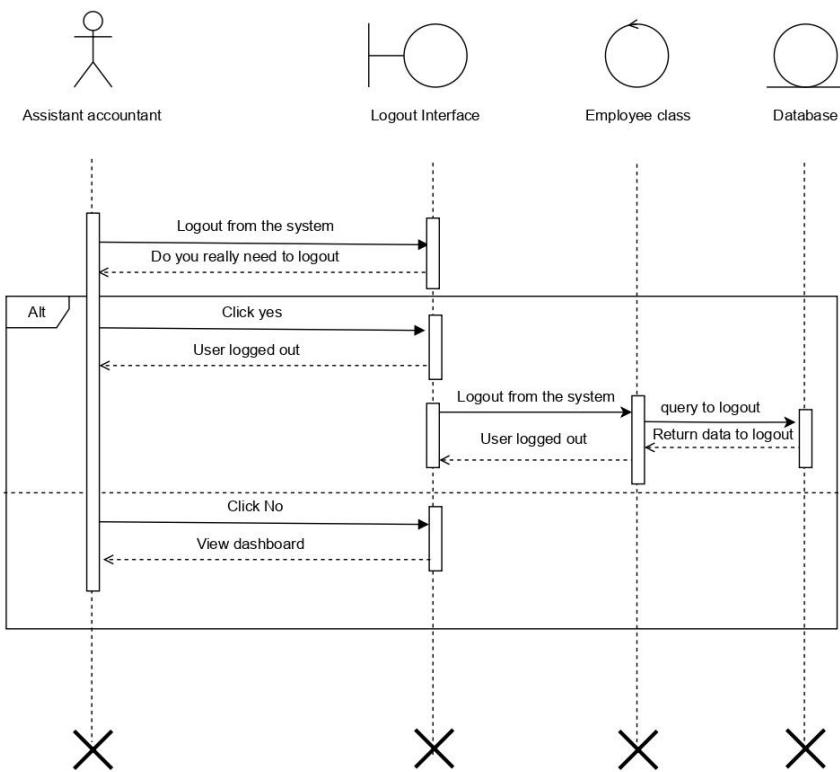


Figure 165: Sequence diagram 163

Logout

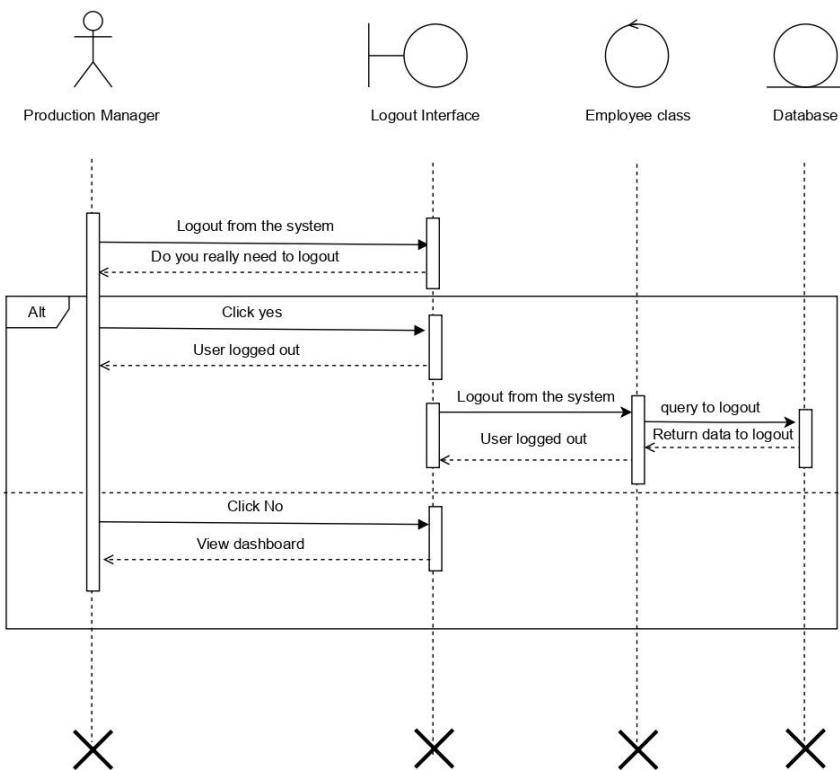


Figure 166: Sequence diagram 164

Logout

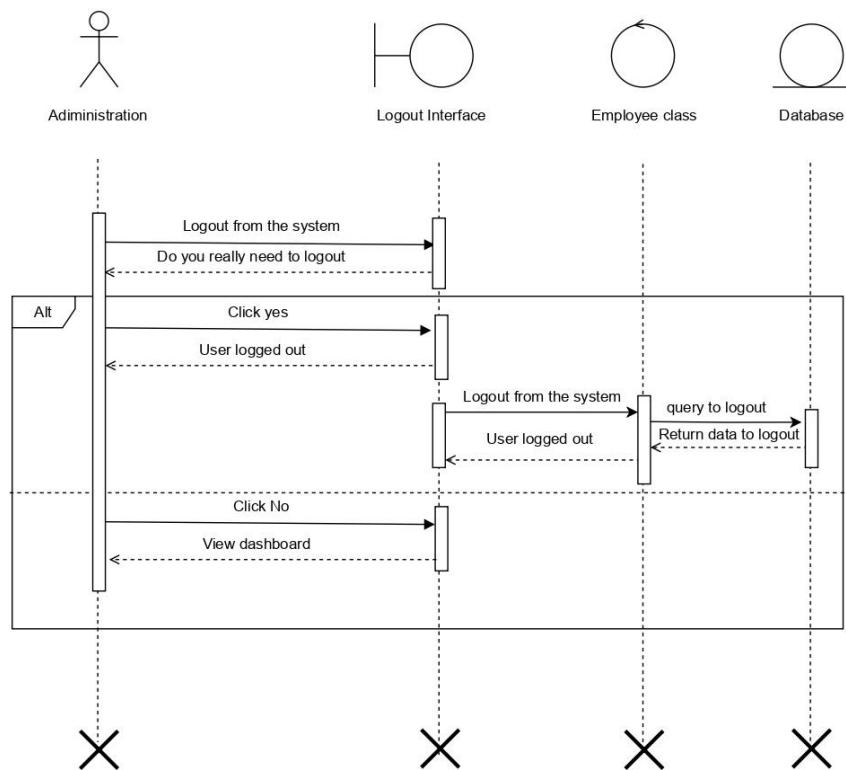


Figure 167: Sequence diagram 165

Logout

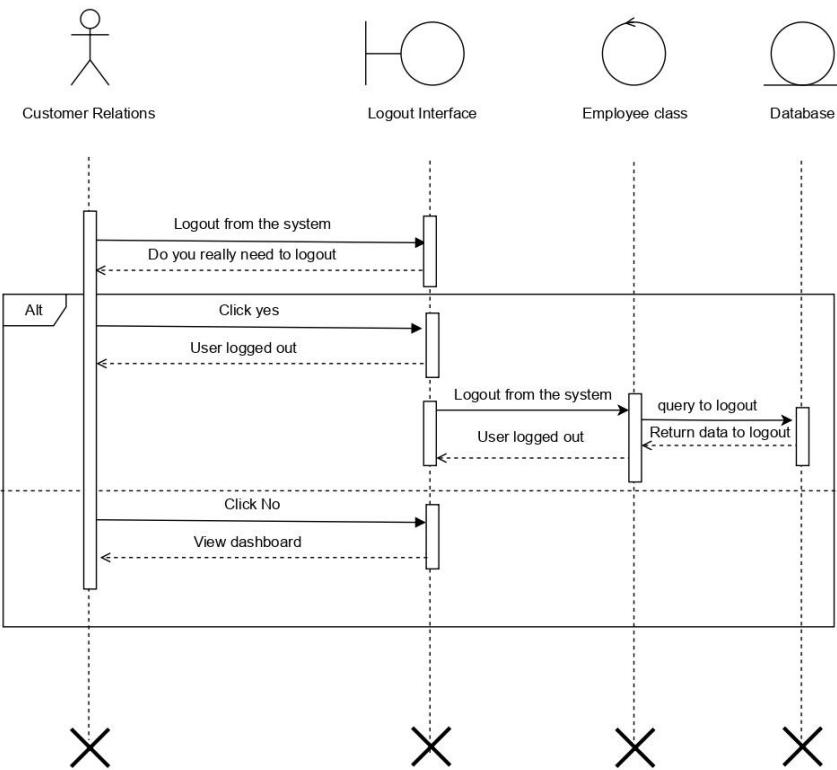


Figure 168: Sequence diagram 166

Logout

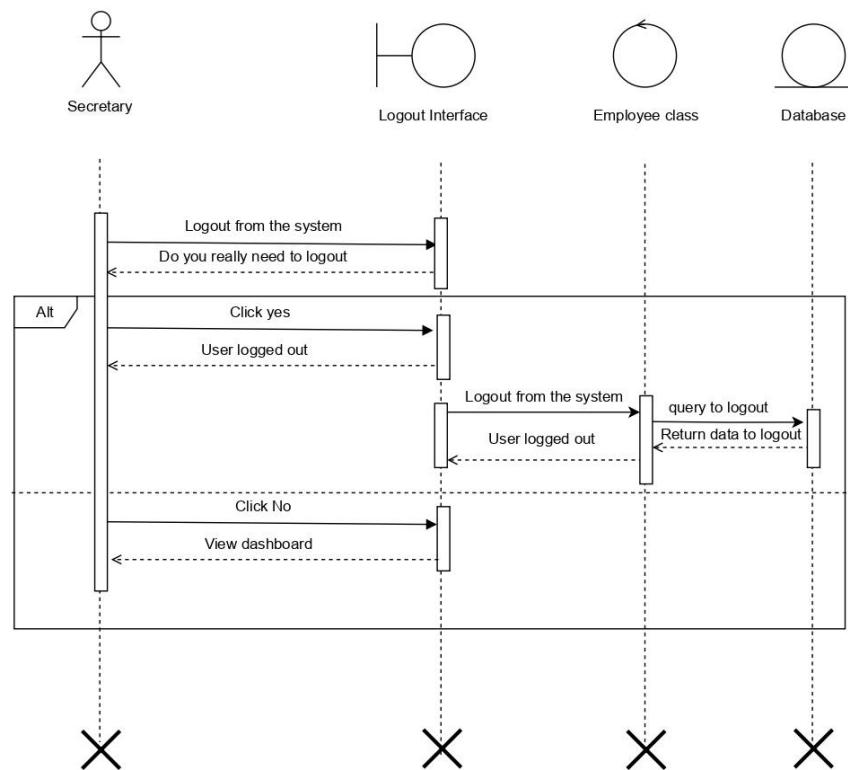


Figure 169: Sequence diagram 167

Log in and view dashboard

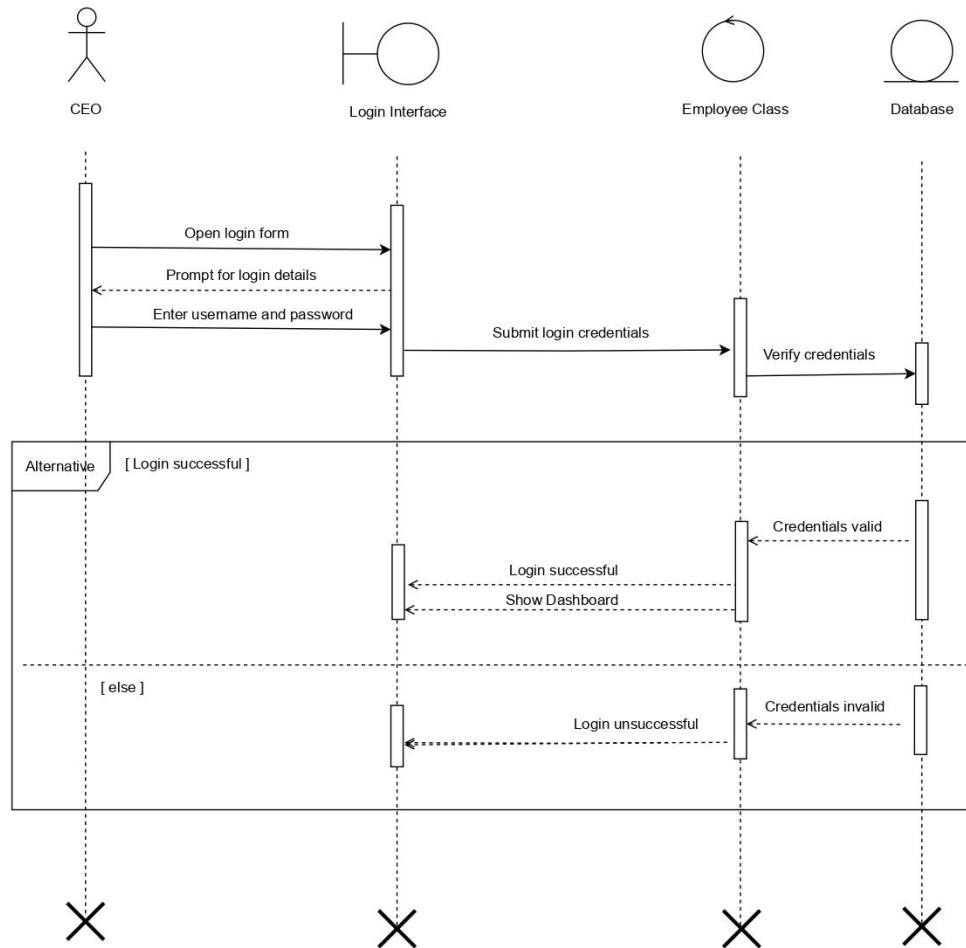


Figure 170: Sequence diagram 168

Log in and view dashboard

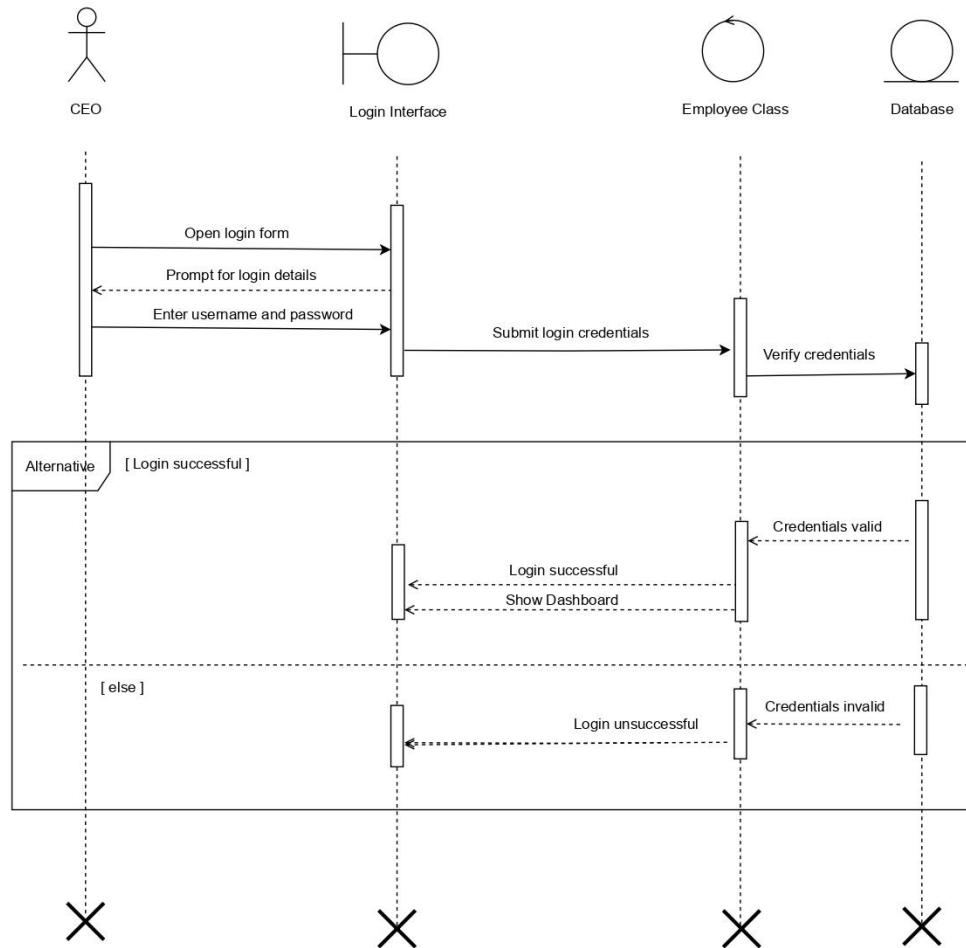


Figure 171: Sequence diagram 169

Log in and view dashboard

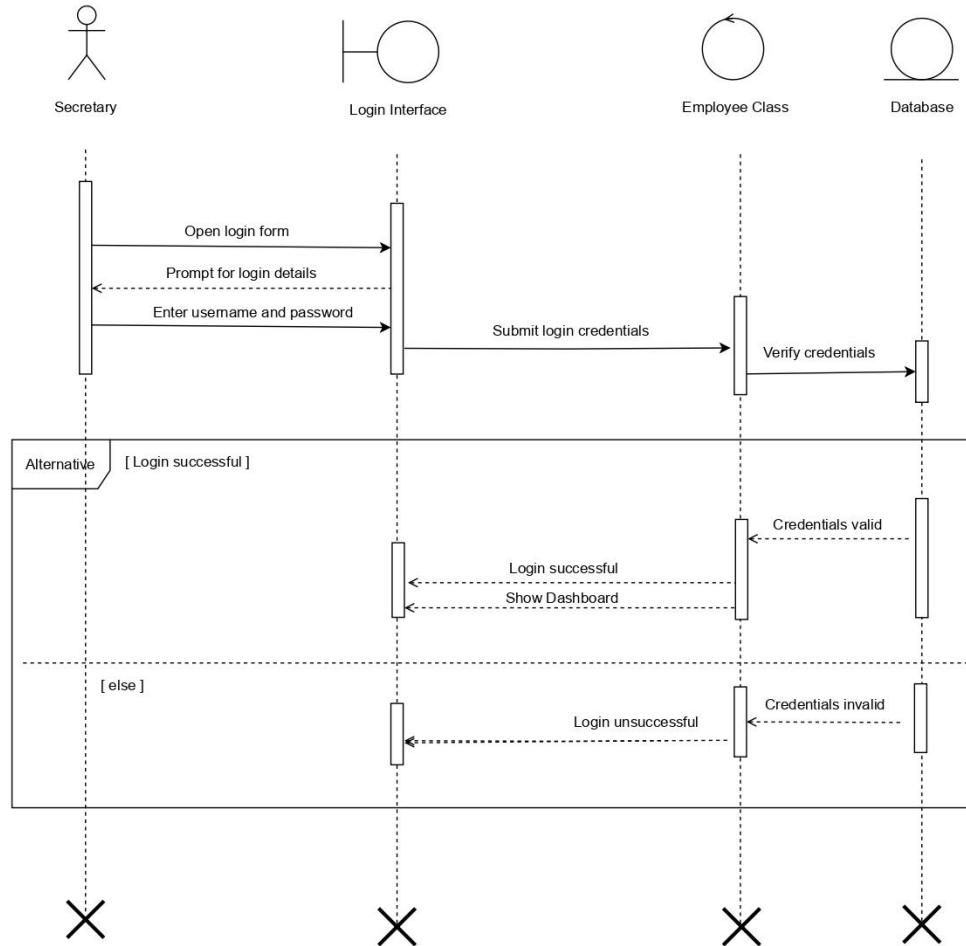


Figure 172: Sequence diagram 170

Log in and view dashboard

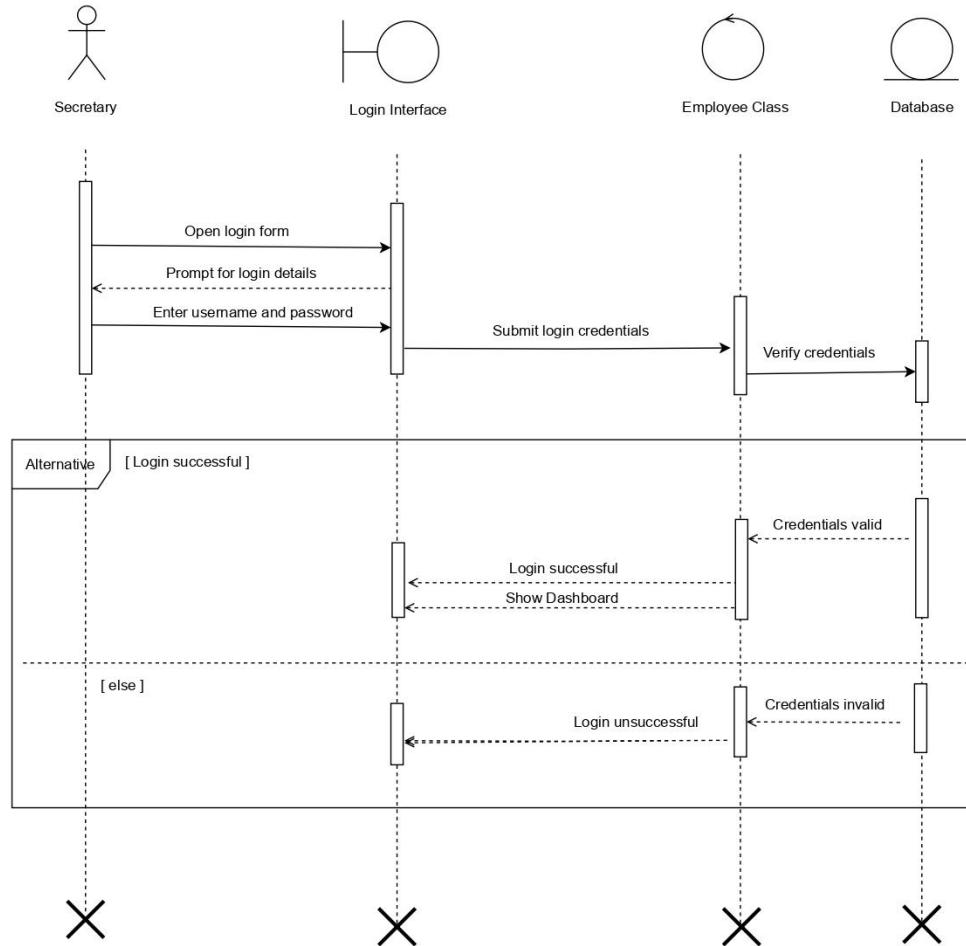


Figure 173: Sequence diagram 171

Log in and view dashboard

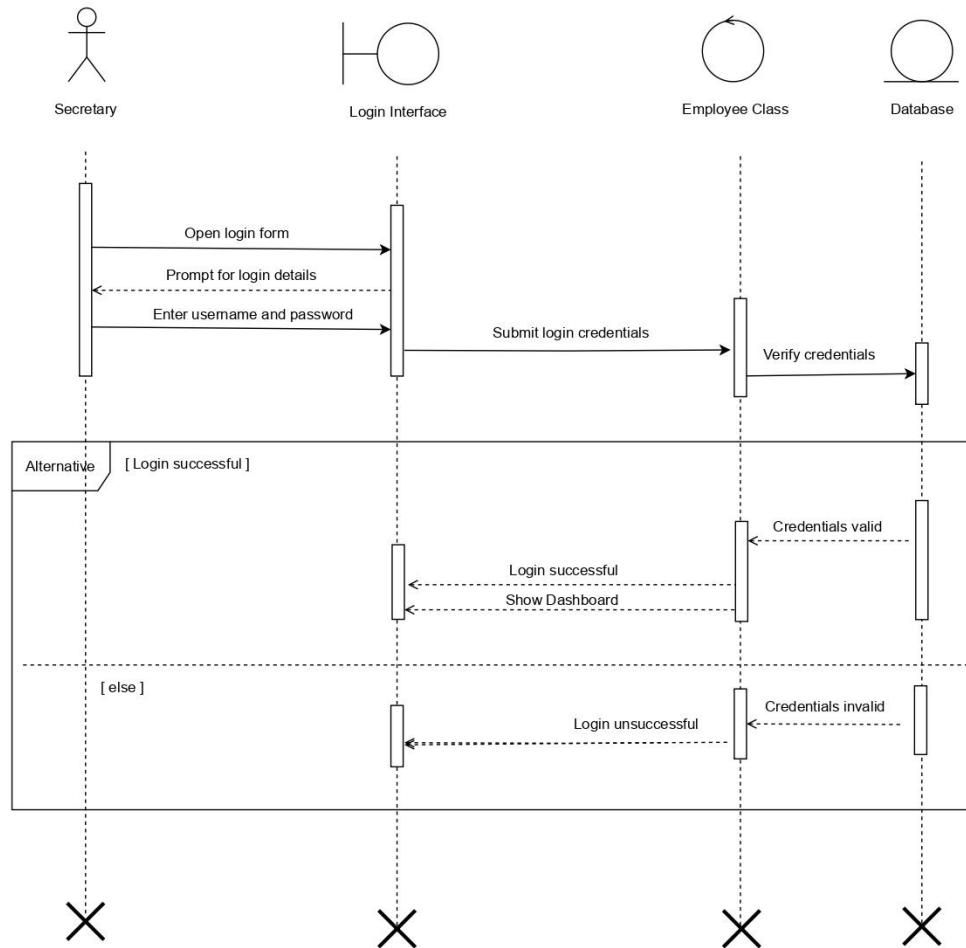


Figure 174: Sequence diagram 172

Log in and view dashboard

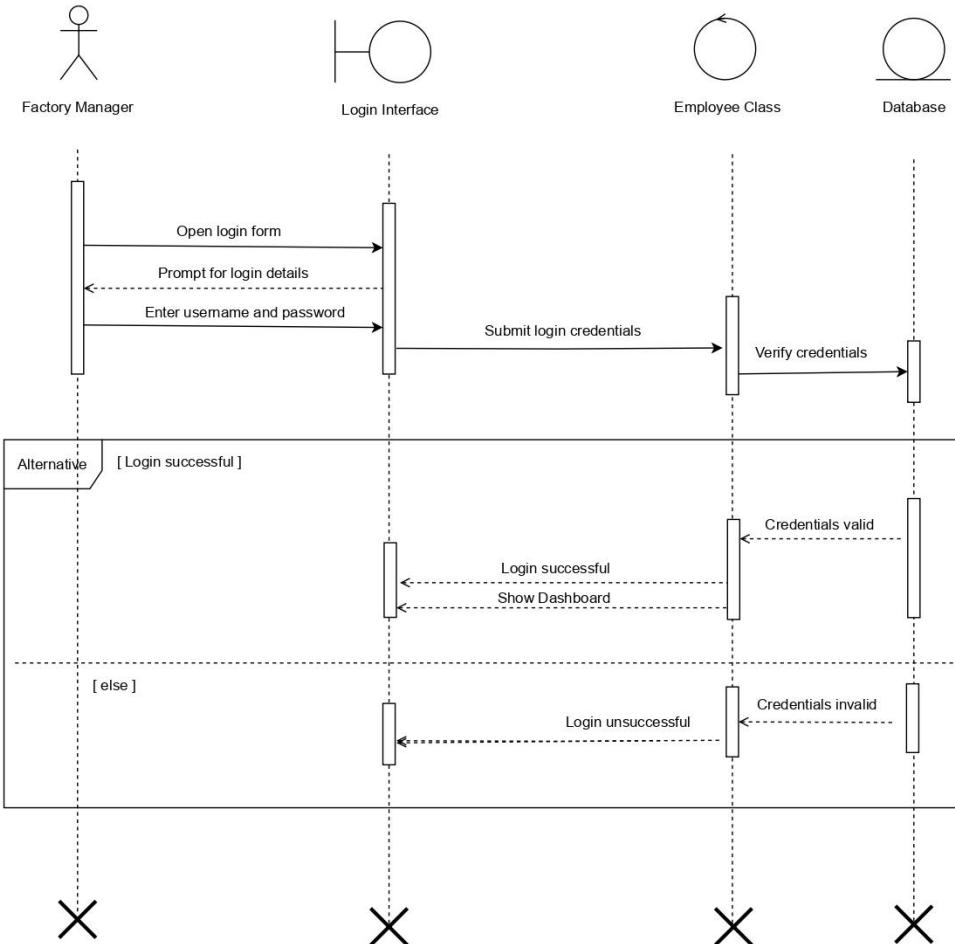


Figure 175: Sequence diagram 173

Log in and view dashboard

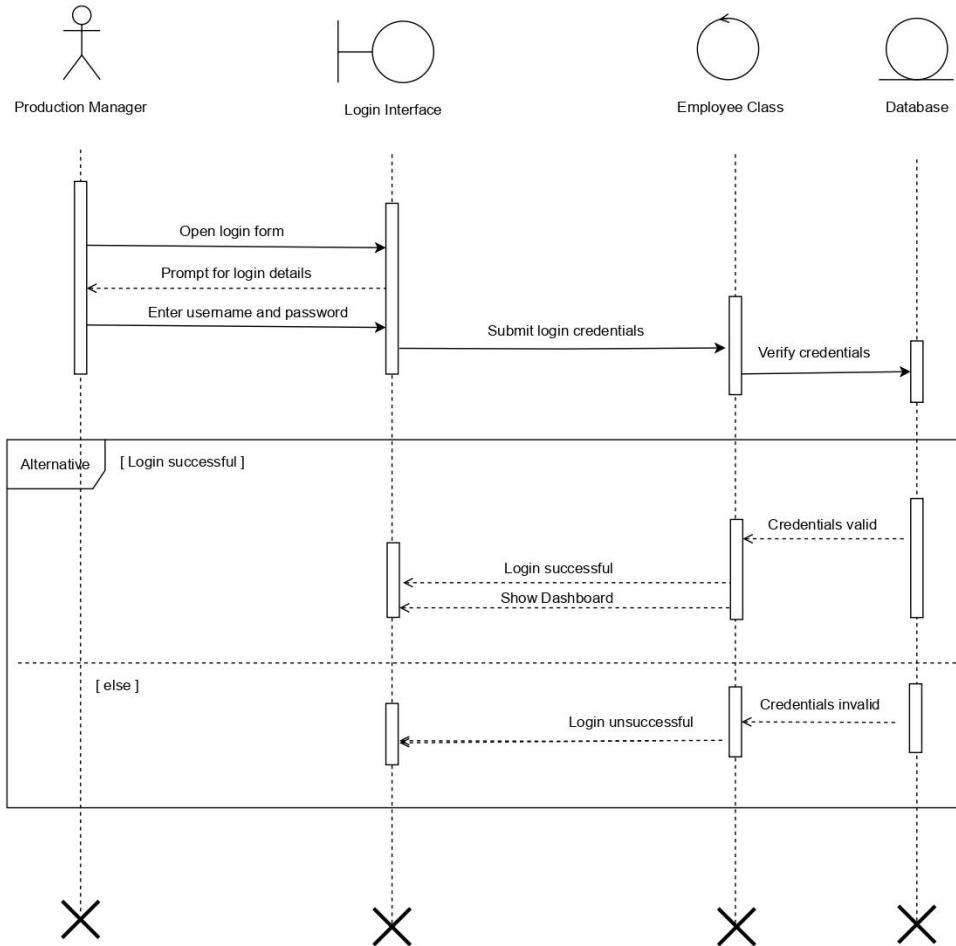


Figure 176: Sequence diagram 174

Log in and view dashboard

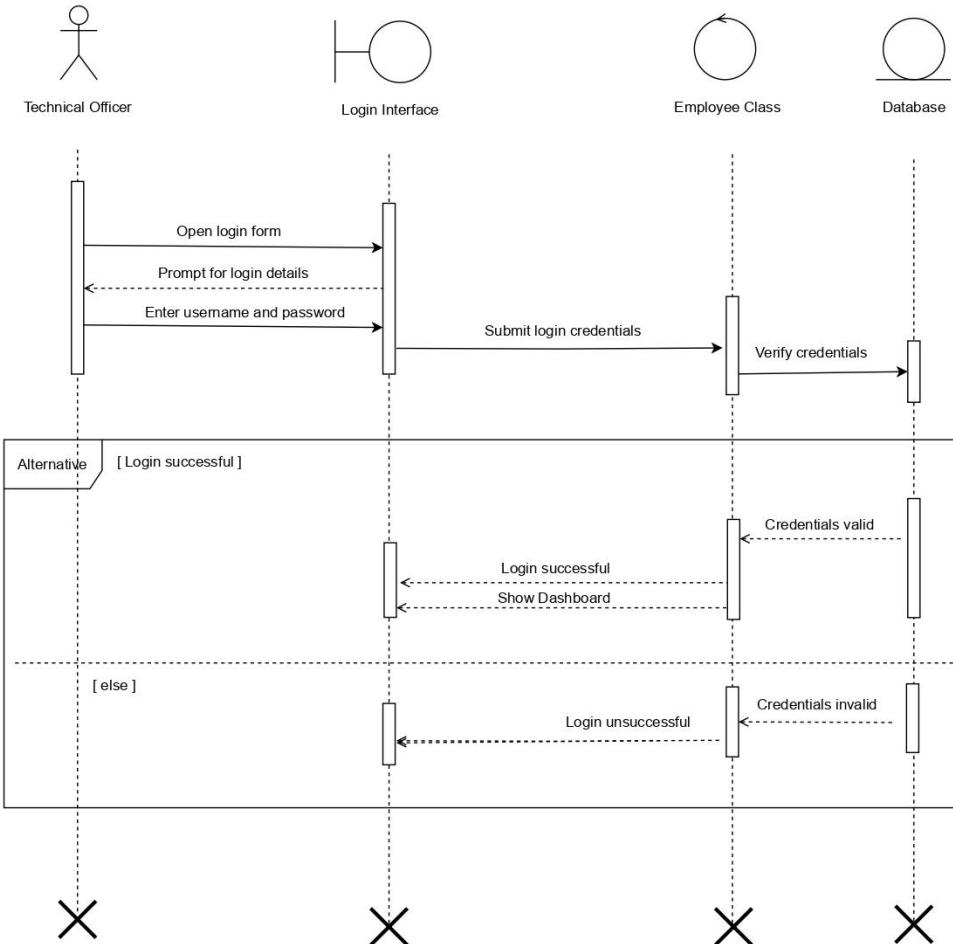


Figure 177: Sequence diagram 175

Log in and view dashboard

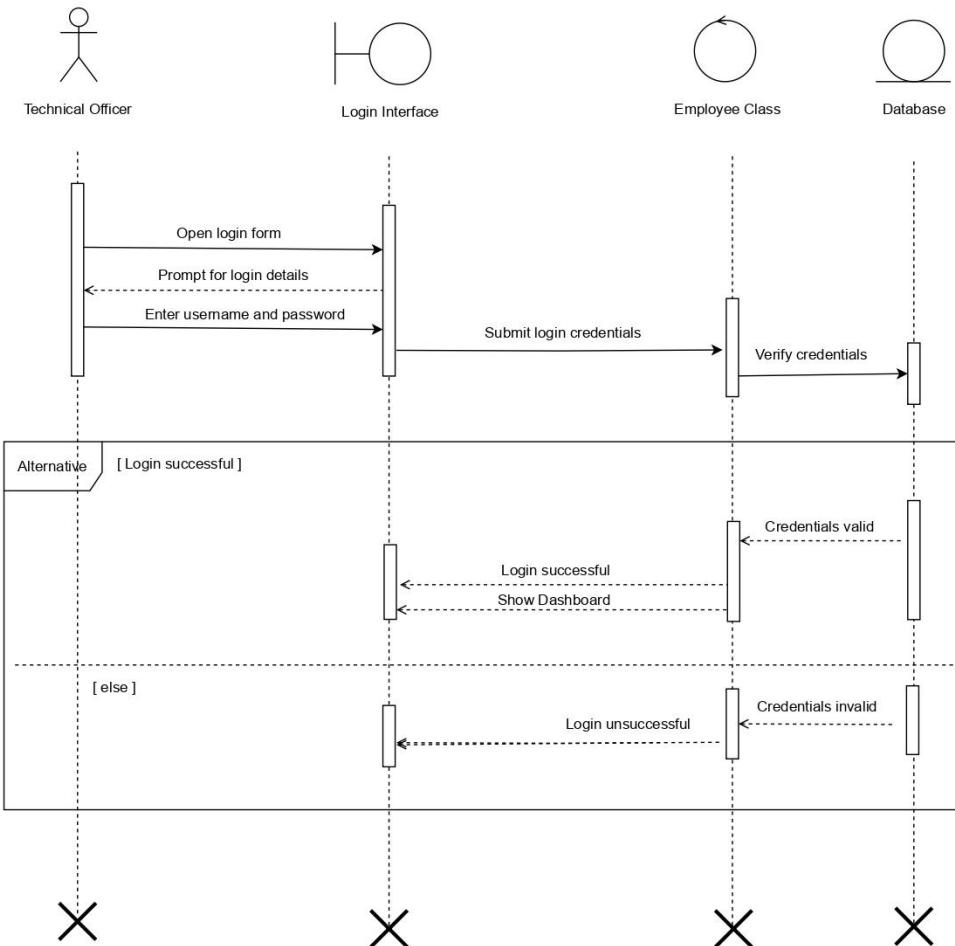


Figure 178: Sequence diagram 176

Log in and view dashboard

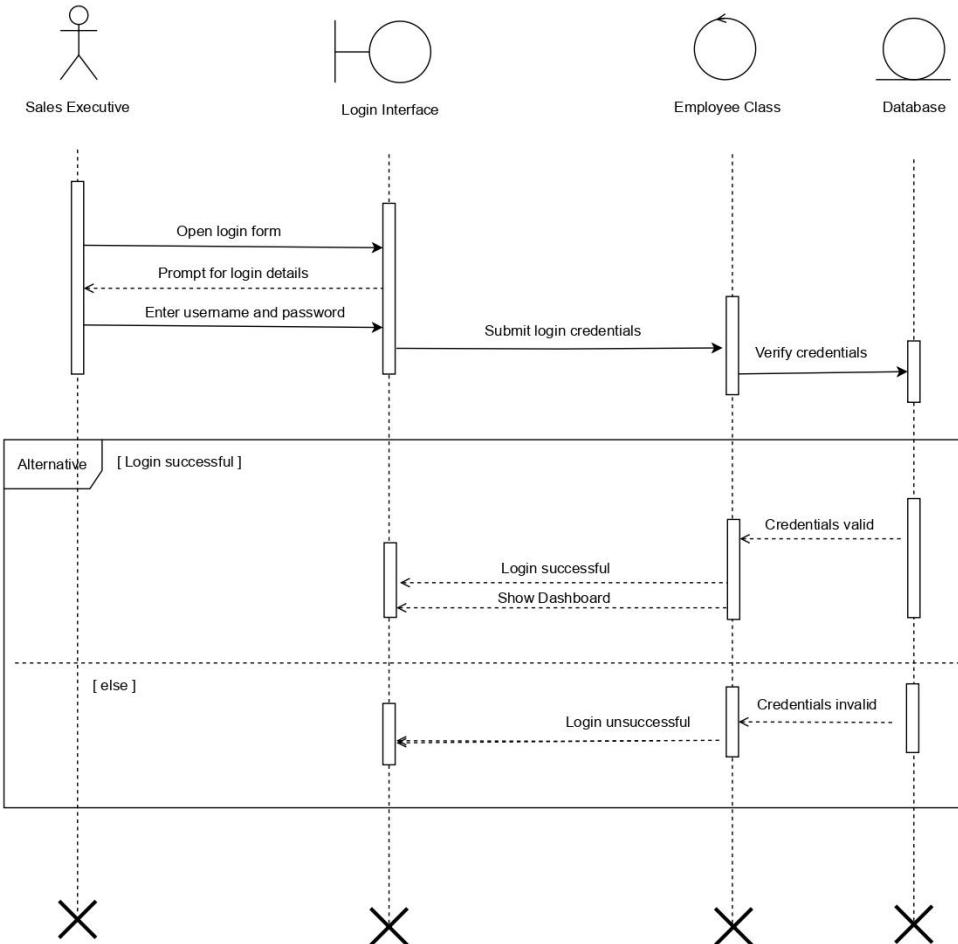


Figure 179: Sequence diagram 177

View employee attendance

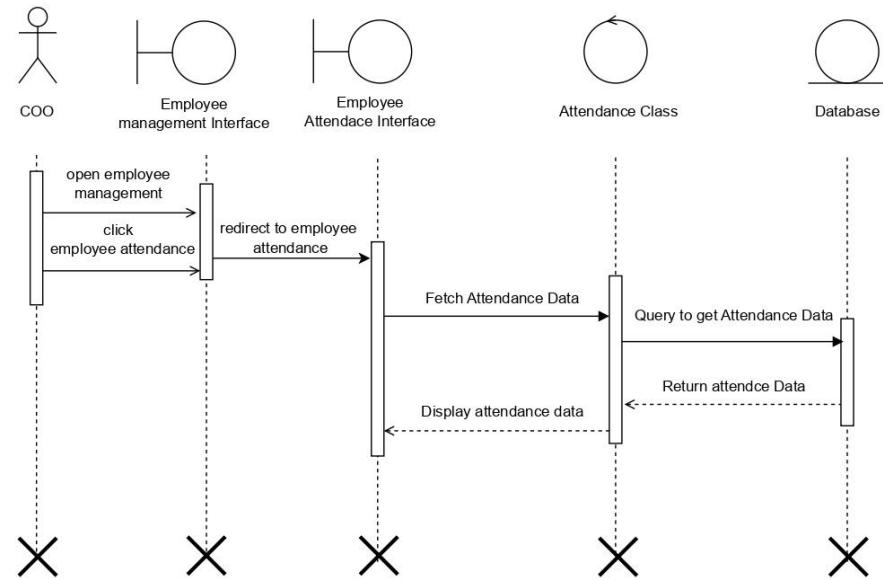


Figure 180: Sequence diagram 178

View, add , update , delete salary payment

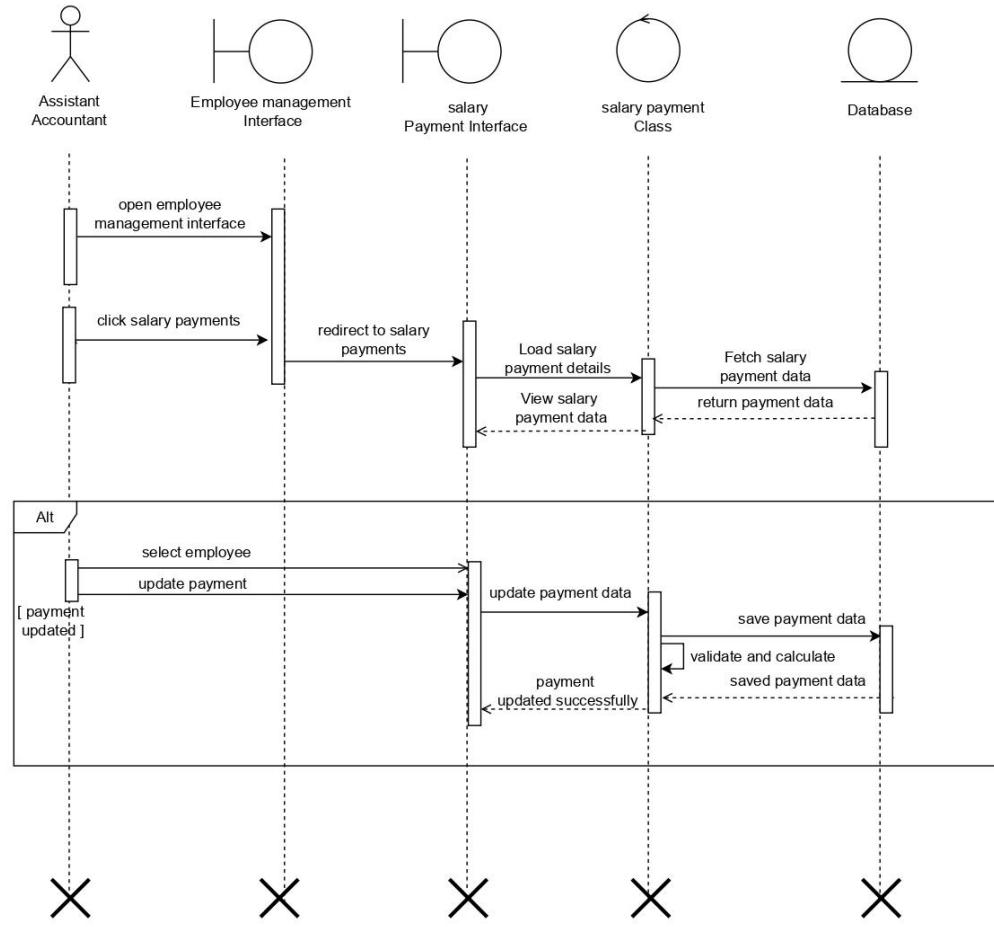


Figure 181: Sequence diagram 179

Create client account

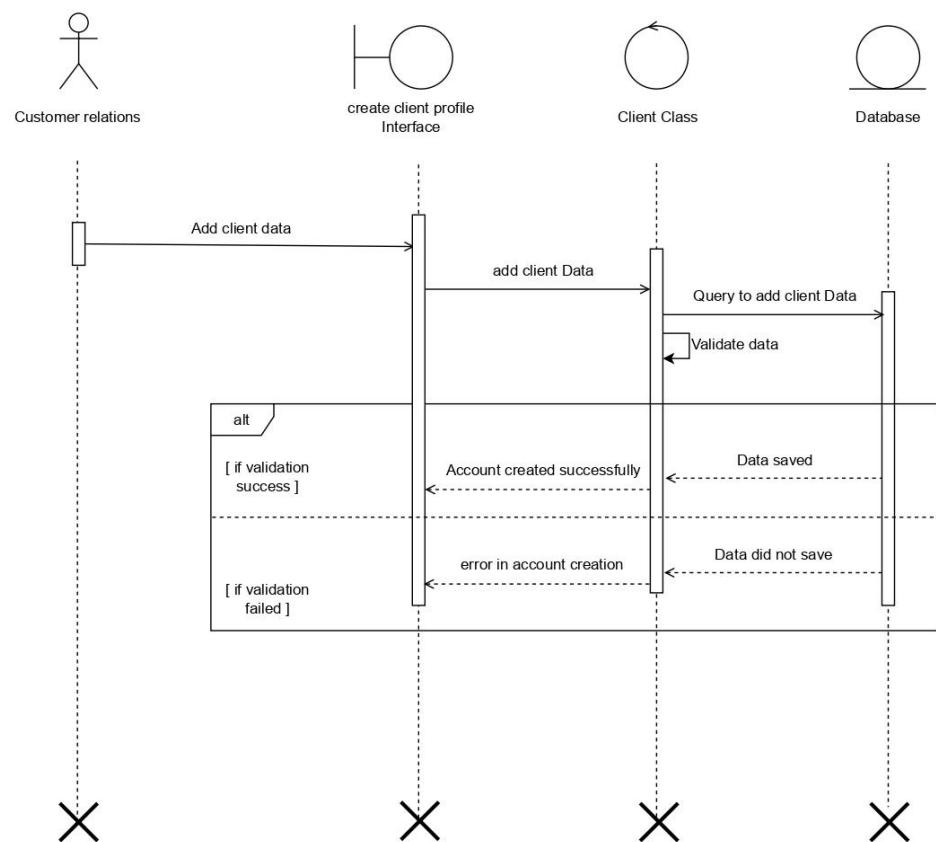
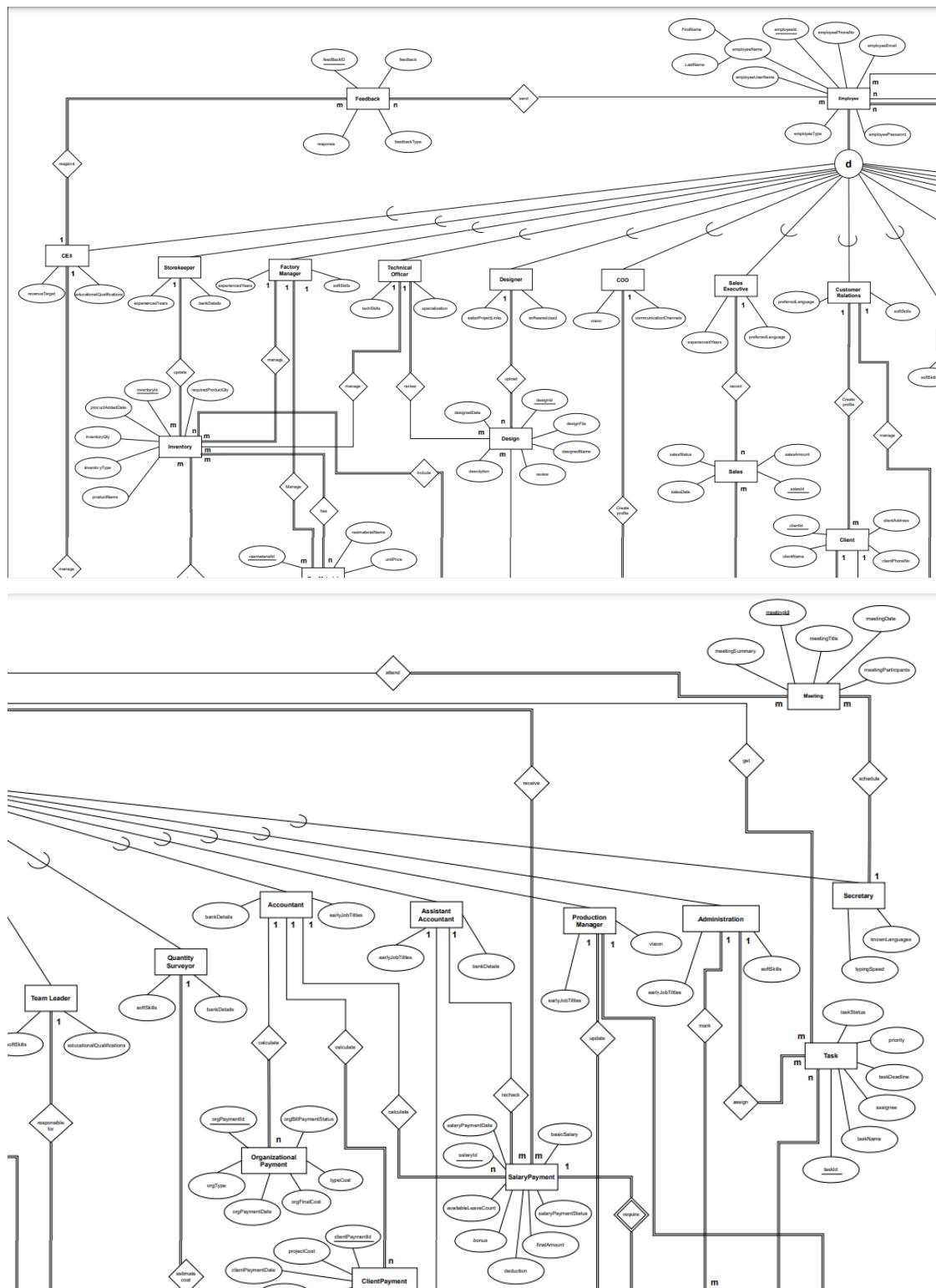


Figure 182: Sequence diagram 180

3.3 ER diagram of Proposed System



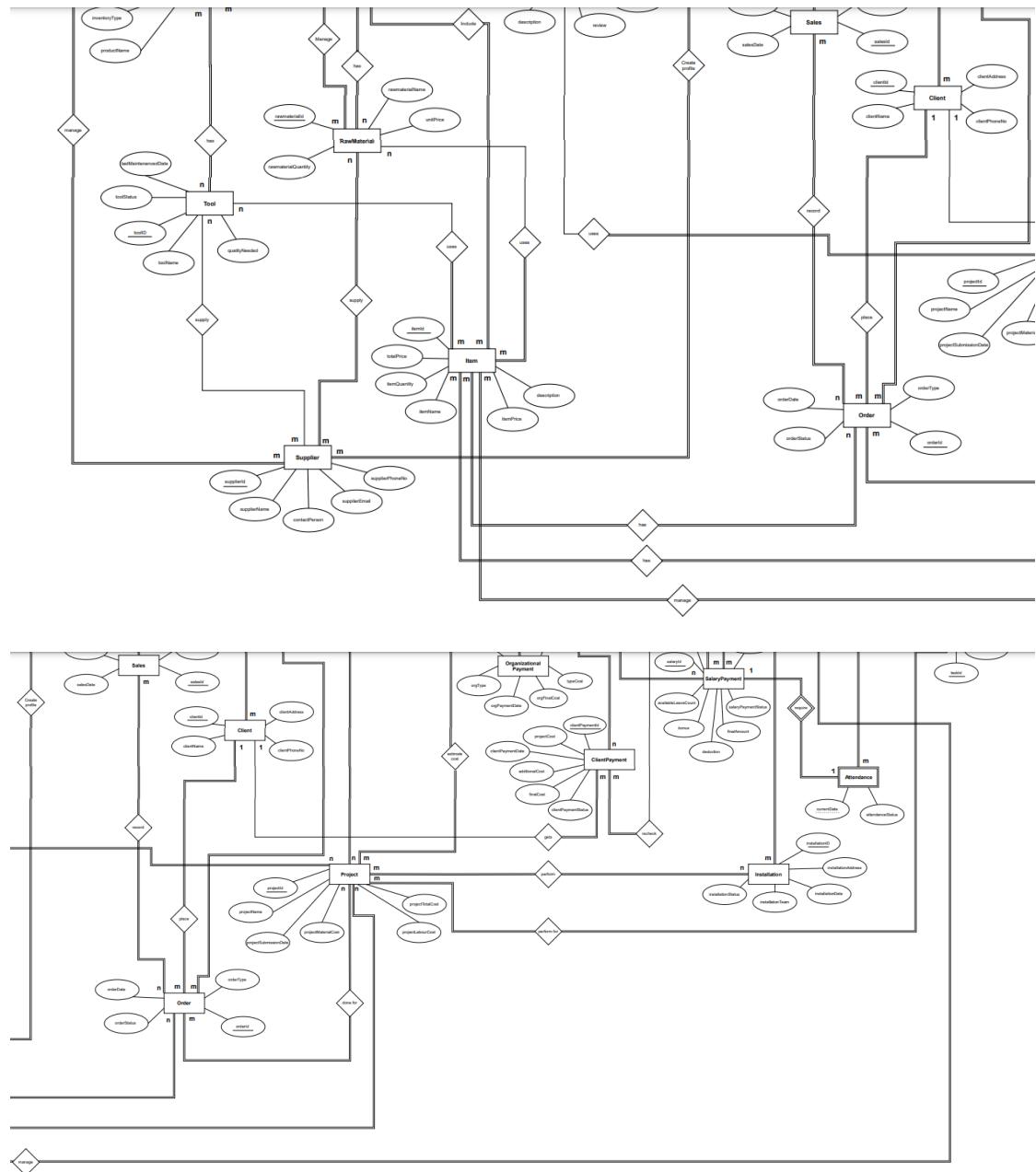


Figure 183 : ER diagram

3.4 Chapter summary

As the above chapter mentioned, all the functions of the relevant system is represented using ER diagram, sequence diagrams, use case and class diagram. It is the basic sketch of how system is planned to be implemented and what are the functions performed by it.

Chapter 4: Solution Design

4.1 Introduction

Following chapter shows the interface design, table design and report layout of the proposed system. As the proposed system consists of a tab control, interface design shows the each and every interface design of the system based on actors. The table design consists of column names, data sizes and the description of each table in the database. The report layout section consists of 05 report layouts for,

- Meeting report
- Project report
- Sales report
- Financial report
- Inventory report

Based on relevant information in the system.

4.2 Interface Design

Interface No: 01

Interface Name: Login Interface

Description: Login page of the system

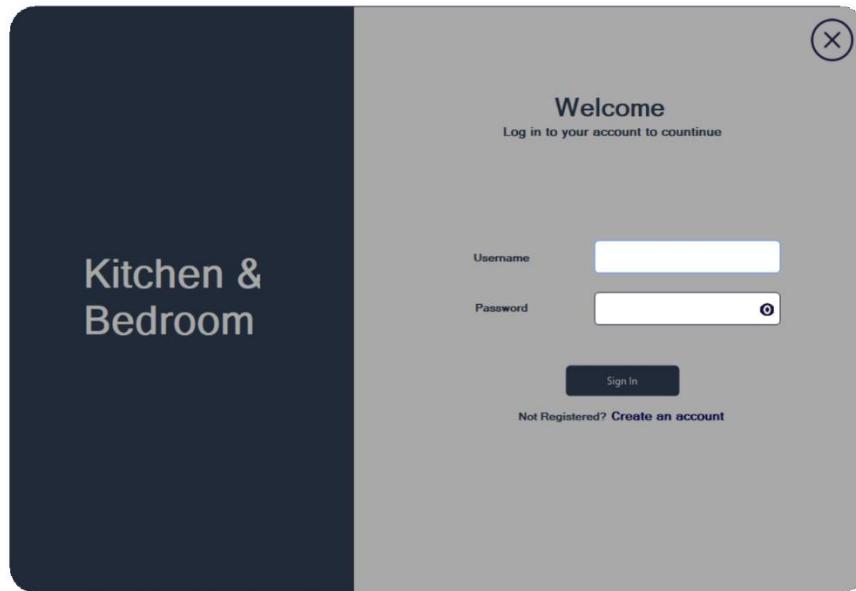


Figure 184 : User Interface 01

Interface No: 02

Interface Name: Registration Interface

Description: Registration page for a new user

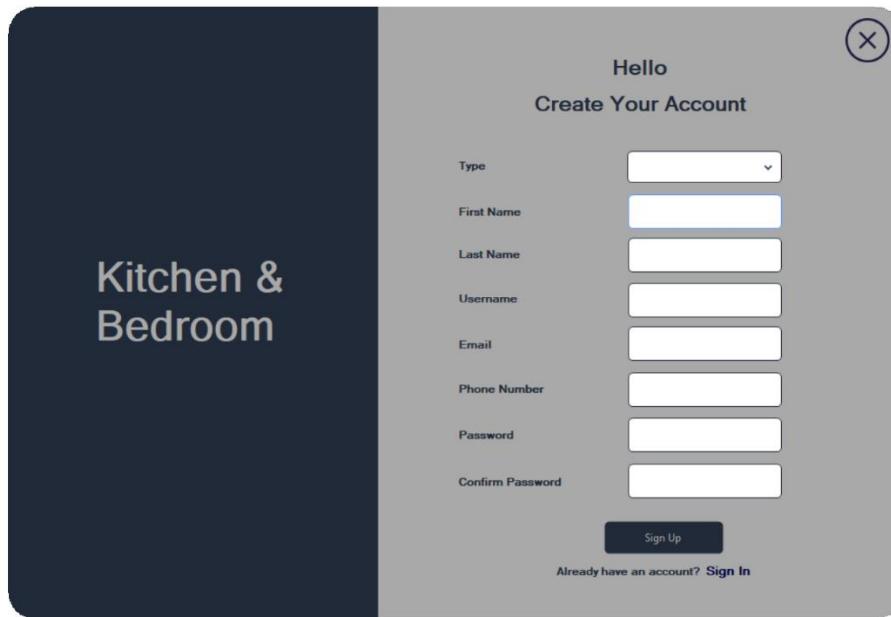


Figure 185 : User Interface 02

Interface No: 03

Interface Name: CEO Dashboard Interface

Description: Dashboard for CEO with scheduled meetings and assigned tasks



Figure 186 : User Interface 03

Interface No: 04

Interface Name: CEO Profile Interface

Description: user profile for CEO

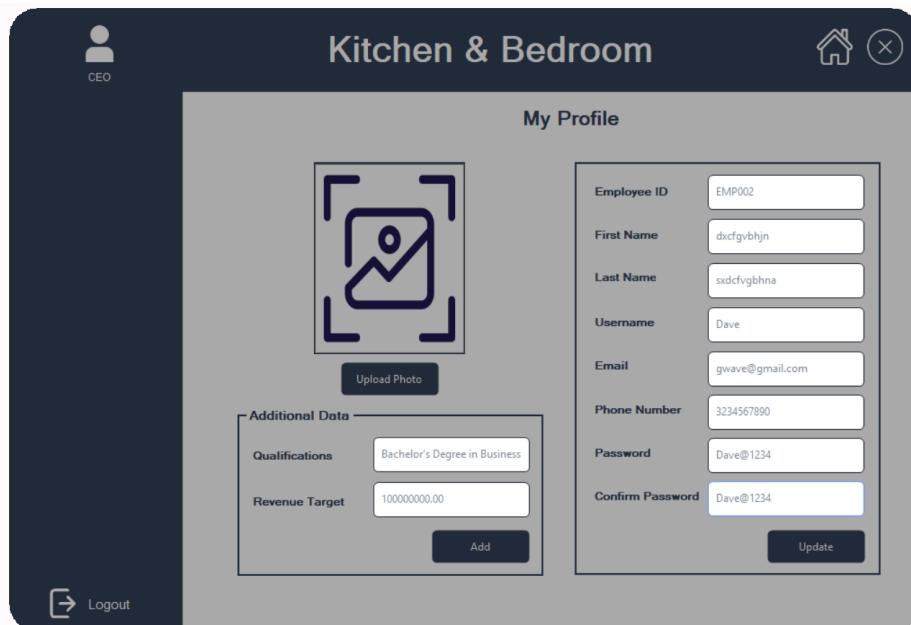


Figure 187 : User Interface 04

Interface No: 05

Interface Name: Employee Profiles Interface (CEO)

Description: Employee management page for CEO

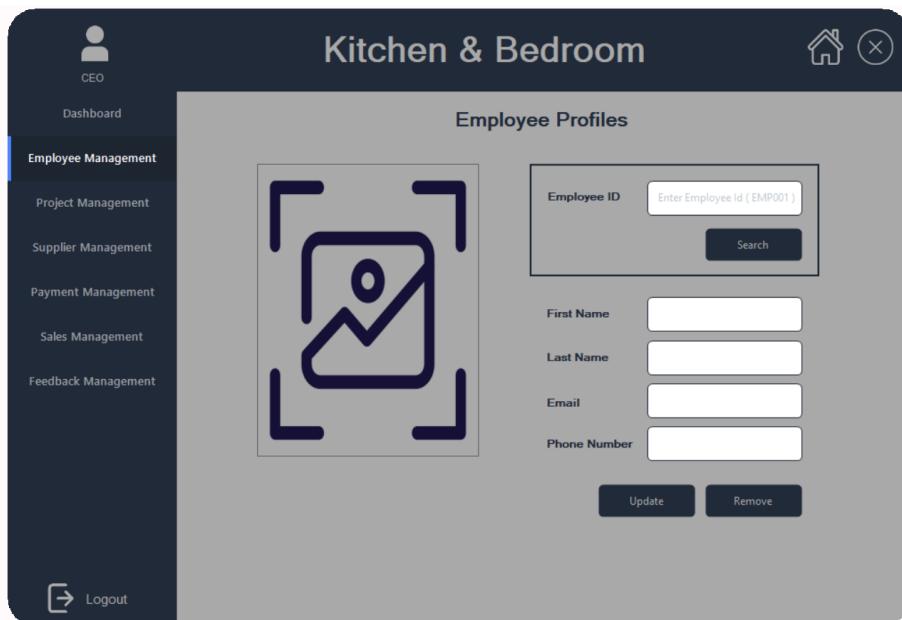


Figure 188 : User Interface 05

Interface No: 06

Interface Name: Approved Project Information's Interface (CEO)

Description: Project management page for CEO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon labeled "CEO", a home icon, and a close button. On the left, a vertical sidebar lists menu items: Dashboard, Employee Management, Project Management (which is selected and highlighted in blue), Supplier Management, Payment Management, Sales Management, Feedback Management, and Logout. The main content area is titled "Approved Project Informations". It features a search section with a text input for "Project ID" containing "P001" and a "Search" button. Below this are several input fields: "Client ID", "Order ID", "Project Name", "Submission Date", "Material Cost", "Labour Cost", and "Total Cost". To the right is a table with columns: projectId, projectName, projectSul, projectLat, projectMa, projectTo, clientId, and orderId. The table contains two rows: P001 (grandp..., 5/29/2..., 30000.00, 400000..., 430000..., C003, 0001) and P002 (customi..., 12/25/..., 4000.00, 35000.00, 39000.00, C003, 0003). A "Print" button is located at the bottom right of the content area.

Figure 189 : User Interface 06

Interface No: 07

Interface Name: Supplier Information's Interface (CEO)

Description: Supplier management page for CEO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon labeled "CEO", a home icon, and a close button. On the left, a vertical sidebar lists menu items: Dashboard, Employee Management, Project Management, Supplier Management (which is selected and highlighted in blue), Payment Management, Sales Management, Feedback Management, and Logout. The main content area is titled "Supplier Informations". It features a search section with a text input for "Supplier ID" containing "S001" and a "Search" button. Below this are several input fields: "Supplier Name", "Contact Person", "Email", and "Phone Number". To the right is a table with columns: supplierId, supplierName, contactPerson, supplierPhoneNc, and supplierEmail. The table contains one row: S001 (john, amjad, 0777567123, amja@gmail.c...). A "Print" button is located at the bottom right of the content area.

Figure 190 : User Interface 07

Interface No: 08

Interface Name: Payment Management Interface (CEO)

Description: Payment management page for CEO



Figure 191 : User Interface 08

Interface No: 09

Interface Name: Salary Payment Interface (CEO)

Description: View salary payment page for CEO

A screenshot of the same mobile application interface as Figure 191. The title "Kitchen & Bedroom" and sidebar are identical. The main content area is now titled "Salary Payments" and displays a table of salary data. The table has columns: salaryId, basicSalary, availableLeaveC, bonus, deduction, finalAmount, salaryPaymentSt, and employeeId. The data rows are as follows:

salaryId	basicSalary	availableLeaveC	bonus	deduction	finalAmount	salaryPaymentSt	employeeId
SAL001	45550.00	4	4000.00	0.00	49550.00	Not Paid	EMP004
SAL004	45550.00	5	5000.00	0.00	50550.00	Paid	EMP004
SAL005	80000.00	4	4000.00	0.00	84000.00	Paid	EMP004
SAL006	70000.00	5	5000.00	0.00	75000.00	Not Paid	EMP010
SAL007	70000.00	4	4000.00	0.00	74000.00	Not Paid	EMP010

Figure 192 : User Interface 09

Interface No: 10

Interface Name: Client Payment Interface (CEO)

Description: View Client payment page for CEO

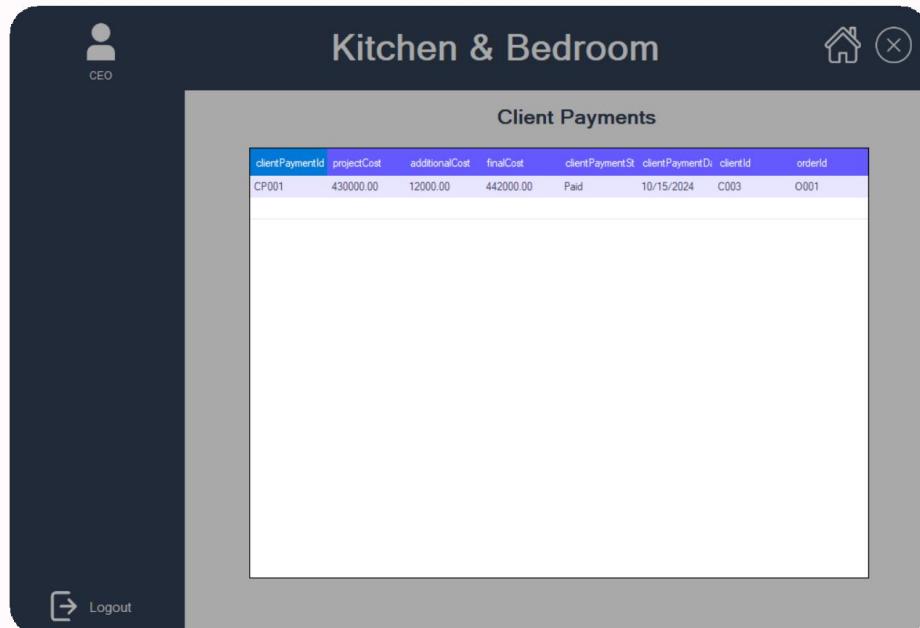


Figure 193 : User Interface 10

Interface No: 11

Interface Name: Organizational Payment Interface (CEO)

Description: View Organizational payment page for CEO

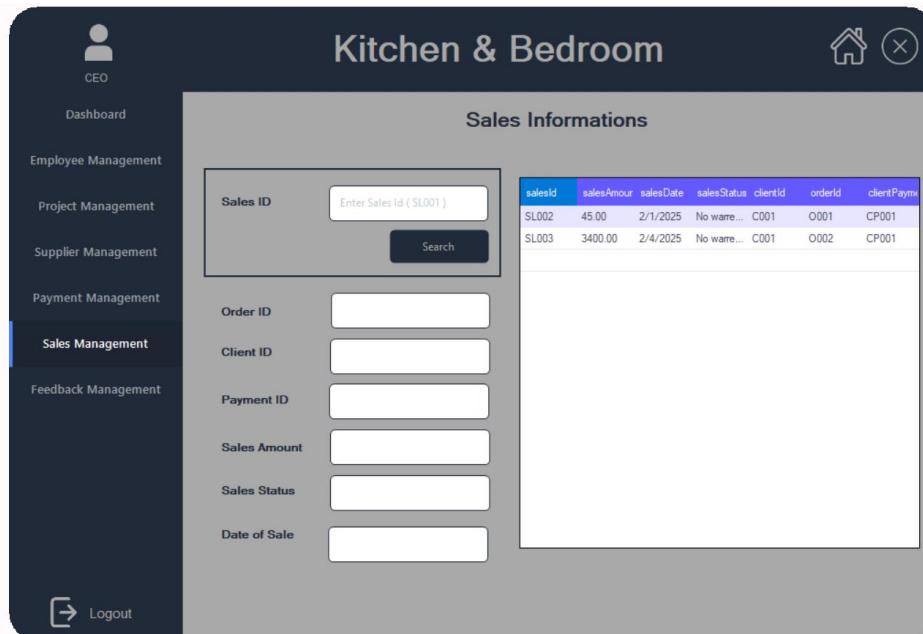


Figure 194 : User Interface 11

Interface No: 12

Interface Name: Sales Information's Interface (CEO)

Description: Sales management page for CEO



The interface is titled "Kitchen & Bedroom". On the left sidebar, under the "CEO" section, the "Sales Management" option is selected. The main content area is titled "Sales Informations" and contains a search form with fields for Sales ID, Order ID, Client ID, Payment ID, Sales Amount, Sales Status, and Date of Sale. To the right is a table showing sales data:

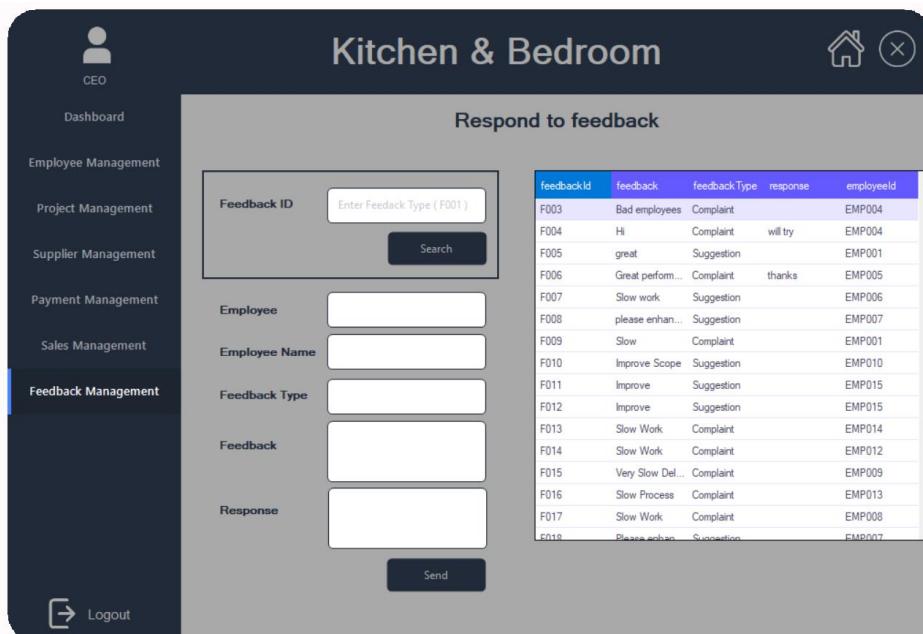
salesId	salesAmour	salesDate	salesStatus	clientId	orderId	clientPaym
SL002	45.00	2/1/2025	No war...	C001	O001	CP001
SL003	3400.00	2/4/2025	No war...	C001	O002	CP001

Figure 195 : User Interface 12

Interface No: 13

Interface Name: Respond to Feedback Interface

Description: Feedback management page for CEO



The interface is titled "Kitchen & Bedroom". On the left sidebar, under the "CEO" section, the "Feedback Management" option is selected. The main content area is titled "Respond to feedback" and contains a search form with fields for Feedback ID, Employee, Employee Name, Feedback Type, Feedback, and Response. Below the search form is a "Send" button. To the right is a table showing feedback data:

feedbackId	feedback	feedbackType	response	employeeId
F003	Bad employees	Complaint		EMP004
F004	Hi	Complaint	will try	EMP004
F005	great	Suggestion		EMP001
F006	Great perform...	Complaint	thanks	EMP005
F007	Slow work	Suggestion		EMP006
F008	please enhan...	Suggestion		EMP007
F009	Slow	Complaint		EMP001
F010	Improve Scope	Suggestion		EMP010
F011	Improve	Suggestion		EMP015
F012	Improve	Suggestion		EMP015
F013	Slow Work	Complaint		EMP014
F014	Slow Work	Complaint		EMP012
F015	Very Slow Del...	Complaint		EMP009
F016	Slow Process	Complaint		EMP013
F017	Slow Work	Complaint		EMP008
F018	Please enhan...	Suggestion		EMP007

Figure 196 : User Interface 13

Interface No: 14

Interface Name: COO Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks



Figure 197 : User Interface 14

Interface No: 15

Interface Name: COO Profile Interface

Description: User Profile page for COO

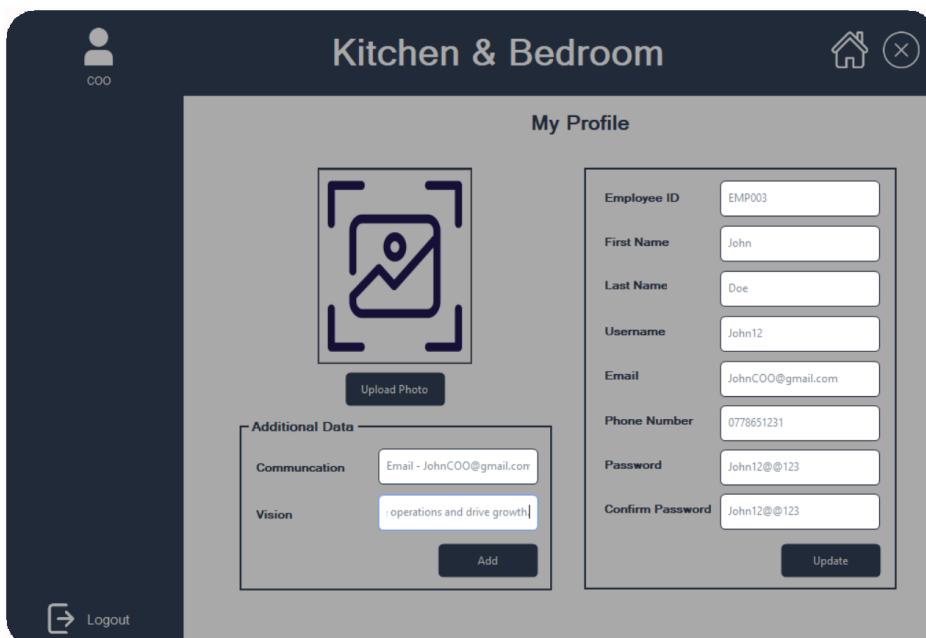


Figure 198 : User Interface 15

Interface No: 16

Interface Name: My Tasks Interface (COO)

Description: View assigned tasks interface for COO

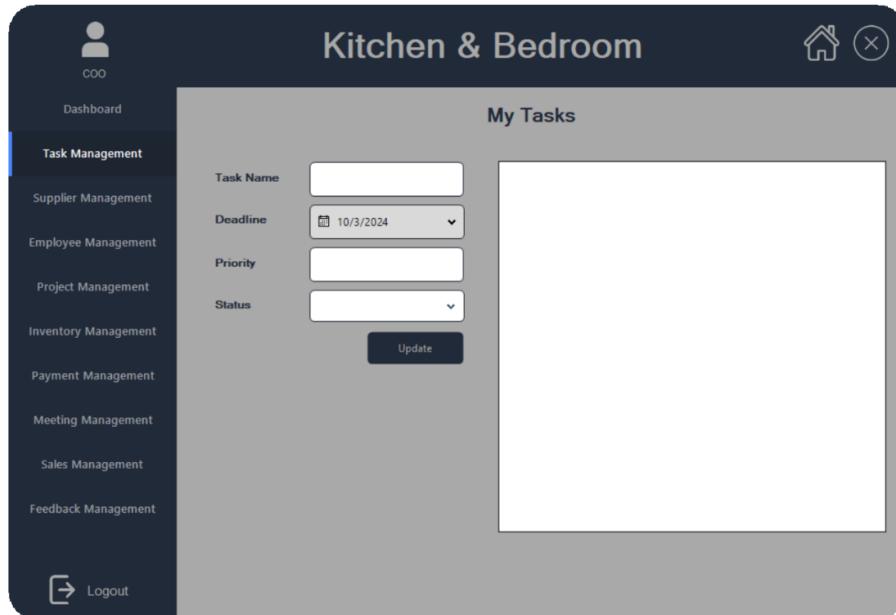


Figure 199 : User Interface 16

Interface No: 17

Interface Name: Supplier Information's Interface (COO)

Description: Supplier management page for COO

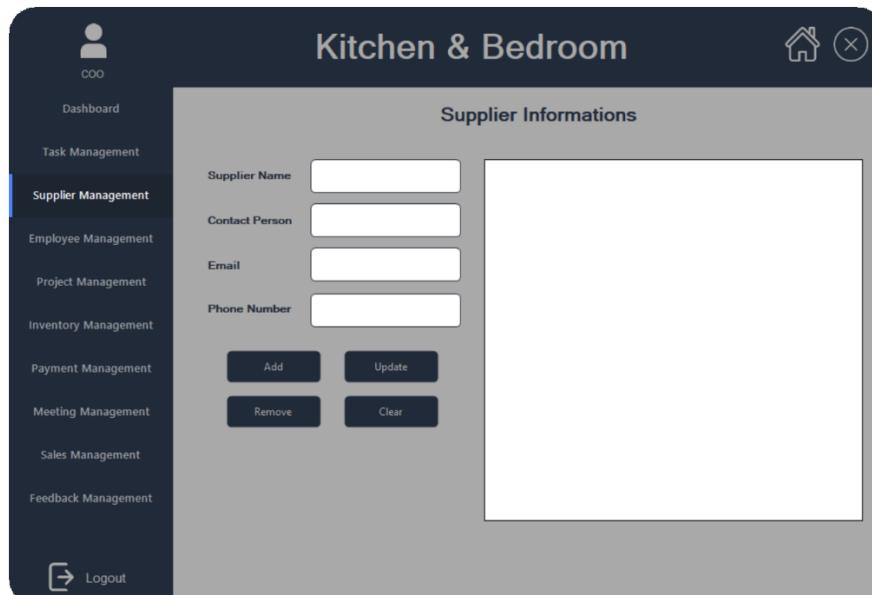


Figure 200 : User Interface 17

Interface No: 18

Interface Name: Employee Management Interface (COO)

Description: Employee management page for COO



Figure 201 : User Interface 18

Interface No: 19

Interface Name: Employee Profiles Interface (COO)

Description: Employee management page for COO

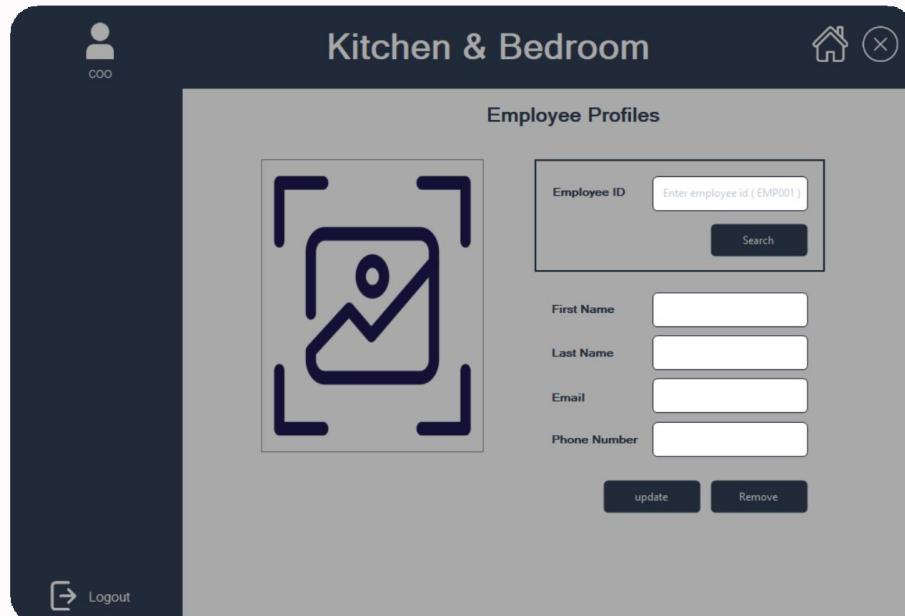


Figure 202 : User Interface 19

Interface No: 20

Interface Name: Employee Attendance Interface (COO)

Description: View employee attendance page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top right are icons for home and close. On the left is a vertical sidebar with a user icon and the text "COO". At the bottom left is a "Logout" button. The main content area is titled "Employee Attendance". It features a date picker set to "10/23/2024" and a "Search" button. Below is a table with three columns: "attendanceDate", "attendanceStatus", and "employeeId". The data in the table is:

attendanceDate	attendanceStatus	employeeId
10/3/2024	Present	EMP004
10/19/2024	Present	EMP004
10/20/2024	Present	EMP004

Figure 203 : User Interface 20

Interface No: 21

Interface Name: Project Information's Interface (COO)

Description: Project management page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top right are icons for home and close. On the left is a vertical sidebar with a user icon and the text "COO". The sidebar includes links for "Dashboard", "Task Management", "Supplier Management", "Employee Management", "Project Management" (which is highlighted in blue), "Inventory Management", "Payment Management", "Meeting Management", "Sales Management", and "Feedback Management". At the bottom left is a "Logout" button. The main content area is titled "Project Informations". It features a search bar for "Project ID" with placeholder text "Enter Project Id (P001)" and a "Search" button. To the right is a table with columns: projectid, projectName, projectSul, projectLat, projectMa, projectTo, clientId, and orderId. The data in the table is:

projectid	projectName	projectSul	projectLat	projectMa	projectTo	clientId	orderId
P001	grand...	5/29/2...	30000.00	400000...	430000...	C003	0001
P002	custom...	12/25/...	4000.00	35000.00	39000.00	C003	0003

Below the table are input fields for "Client ID", "Order ID", "Project Na", "Submission Date", "Material Cost", "Labour Cost", and "Total Cost". At the bottom right are "Approve" and "Reject" buttons.

Figure 204 : User Interface 21

Interface No: 22

Interface Name: Required Inventory List Interface (COO)

Description: Required inventory management page for COO

The screenshot shows a mobile-style user interface. On the left is a dark sidebar with a user icon at the top, followed by a list of management functions: Dashboard, Task Management, Supplier Management, Employee Management, Project Management, **Inventory Management** (which is selected, indicated by a blue underline), Payment Management, Meeting Management, Sales Management, and Feedback Management. At the bottom of the sidebar is a 'Logout' button with a right-pointing arrow. The main content area has a header 'Kitchen & Bedroom' and a secondary header 'Required Inventory List'. Below these are three input fields: 'Type' (empty), 'Product Name' (empty), and 'Required Quantity' (empty). To the right of these fields is a table:

InventoryId	InventoryType	productName	availableQty	requiredQty
INV018	Item	HAMMER	7	8
INV019	Raw material	WOOD	0	10
INV021	Item	HAMMER	7	7
INV022	Raw Material	WOOD	12	9

Figure 205 : User Interface 22

Interface No: 23

Interface Name: Payment Management Interface (COO)

Description: Payment management page for COO

The screenshot shows a mobile-style user interface. On the left is a dark sidebar with a user icon at the top, followed by a list of management functions: Dashboard, Task Management, Supplier Management, Employee Management, Project Management, Inventory Management, **Payment Management** (selected), Meeting Management, Sales Management, and Feedback Management. At the bottom of the sidebar is a 'Logout' button with a right-pointing arrow. The main content area has a header 'Kitchen & Bedroom'. Below it are three large, rounded rectangular buttons, each containing white text: 'Salary Payments', 'Client Payments', and 'Organizational Payments'.

Figure 206 : User Interface 23

Interface No: 24

Interface Name: Salary Payments Interface (COO)

Description: View salary payment for COO

Kitchen & Bedroom

Logout

Salary Payments

salaryId	basicSalary	availableLeaveC	bonus	deduction	finalAmount	salaryPaymentSt	employeeId
SAL001	45550.00	4	4000.00	0.00	49550.00	Not Paid	EMP004
SAL004	45550.00	5	5000.00	0.00	50550.00	Paid	EMP004
SAL005	80000.00	4	4000.00	0.00	84000.00	Paid	EMP004
SAL006	70000.00	5	5000.00	0.00	75000.00	Not Paid	EMP010
SAL007	70000.00	4	4000.00	0.00	74000.00	Not Paid	EMP010

Figure 207 : User Interface 24

Interface No: 25

Interface Name: Client Payment Interface (COO)

Description: View client payment page for COO

Kitchen & Bedroom

Logout

Client Payments

clientPaymentId	projectCost	additionalCost	finalCost	clientPaymentSt	clientPaymentDt	clientId	orderId
CP001	430000.00	12000.00	442000.00	Paid	10/15/2024	C003	O001

Figure 208 : User Interface 25

Interface No: 26

Interface Name: Organizational Payment Interface (COO)

Description: View organizational payment page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top left is a user profile icon with the text "COO" below it. At the top right are a house icon and a close button. The main content area is titled "Organizational Payments" and displays a table with two rows of data:

orgPaymentId	orgType	typeCost	orgPaymentDate	orgBillPaymentStatus
ORG001	Supplier	35000.00	10/3/2024	Paid
ORG002	Water	7000.00	6/3/2024	Paid

At the bottom left is a "Logout" button.

Figure 209 : User Interface 26

Interface No: 27

Interface Name: Meeting Information's Interface (COO)

Description: Meeting management page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". On the left is a navigation sidebar with the following items: Dashboard, Task Management, Supplier Management, Employee Management, Project Management, Inventory Management, Payment Management, **Meeting Management** (which is selected), Sales Management, and Feedback Management. At the bottom left is a "Logout" button. The main content area is titled "Meeting Informations" and contains several input fields and a table:

Meeting ID: M007 **Date:** 1/4/2025

Title: board meeting **Participants:** Alan Walker, John Doe, Alice Johnson

Summary: [Empty]

Meeting Informations Table:

meetingId	meetingTitle	meetingDate	meetingParticipants	meetingSummary	employeeId
M006	Sales	12/7/2024	Alice Johns...	Planned to ...	
M007	board meet...	1/4/2025	Alan Walk...		

Figure 210 : User Interface 27

Interface No: 28

Interface Name: Sales Information's Interface (COO)

Description: Sales management page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user profile icon labeled "COO", a home icon, and a close button. The left sidebar contains a vertical list of management modules: Dashboard, Task Management, Supplier Management, Employee Management, Project Management, Inventory Management, Payment Management, Meeting Management, Sales Management (which is highlighted with a blue border), and Feedback Management. At the bottom of the sidebar is a "Logout" button. The main content area is titled "Sales Informations". It features a search section with fields for "Sales ID" (containing placeholder text "Enter Sales Id (SL001)") and a "Search" button. Below this are six input fields: "Order ID", "Client ID", "Payment", "Sales Amoun", "Sales Status", and "Date of Sale". To the right of these fields is a table titled "SalesId" with columns: salesId, salesAmour, salesDate, salesStatus, clientId, orderId, and clientPaym. The table displays three rows of data: SL002 (45.00, 2/1/2025, No ware..., C001, 0001, CP001), SL003 (3400.00, 2/4/2025, No ware..., C001, 0002, CP001).

Figure 211 : User Interface 28

Interface No: 29

Interface Name: Send Feedback Interface (COO)

Description: Feedback management page for COO

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user profile icon labeled "COO", a home icon, and a close button. The left sidebar contains a vertical list of management modules: Dashboard, Task Management, Supplier Management, Employee Management, Project Management, Inventory Management, Payment Management, Meeting Management, Sales Management (which is highlighted with a blue border), and Feedback Management. At the bottom of the sidebar is a "Logout" button. The main content area is titled "Send Feedback". It features a form with fields for "Employee Id" (containing "EMP003"), "Employee Name" (containing "John Doe"), "Feedback Type" (a dropdown menu), and a large "Feedback" text area. To the right of the form is a table titled "ID" with columns: ID, Employee ID, Feedback, Type, and Response. The table displays two rows of data: F020 (EMP003, Slow Work, Complaint), F021 (EMP003, Slow Work, Suggestion). A "Send" button is located at the bottom of the form.

Figure 212 : User Interface 29

Interface No: 30

Interface Name: Secretary Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

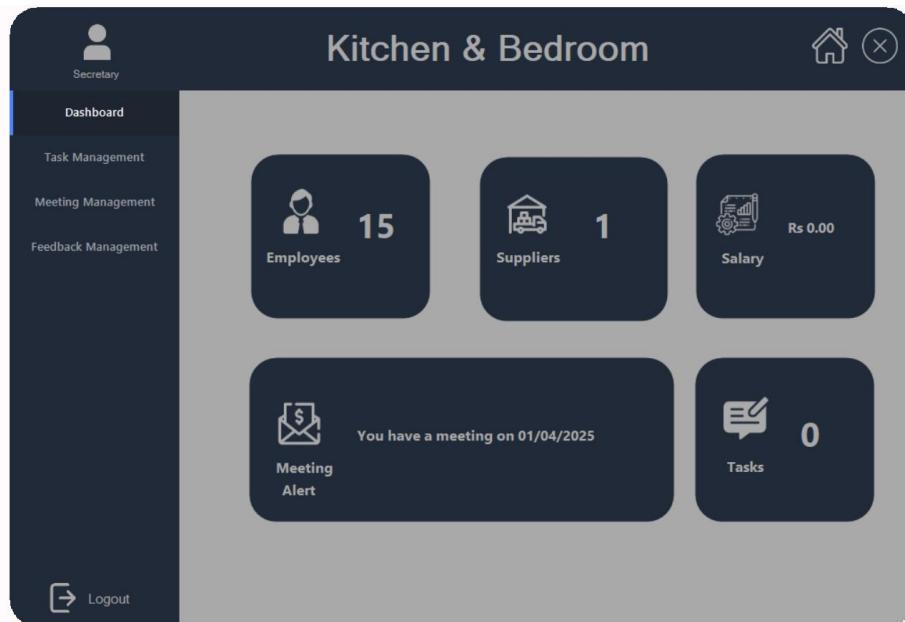


Figure 213 : User Interface 30

Interface No: 31

Interface Name: Secretary Profile Interface

Description: My profile page for secretary

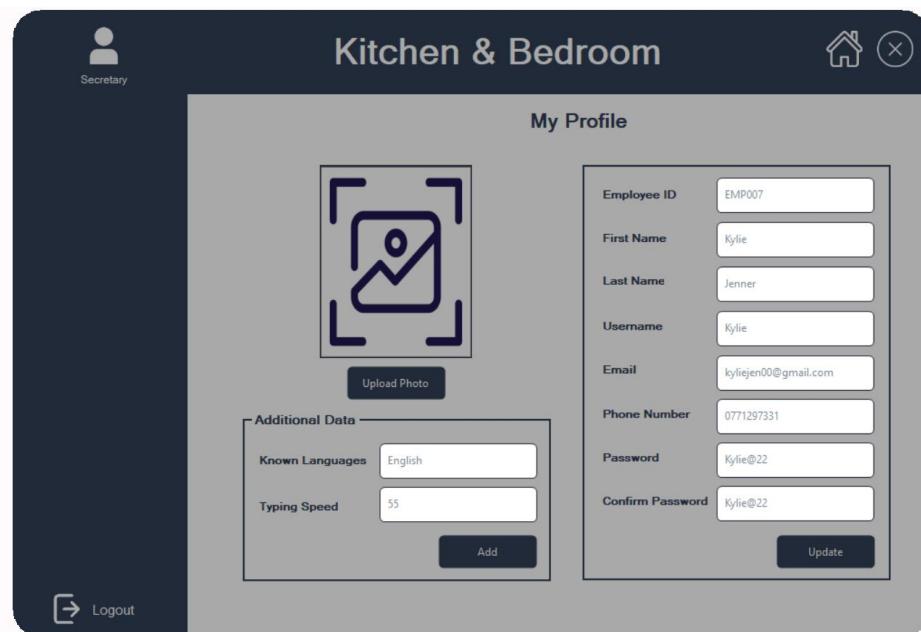
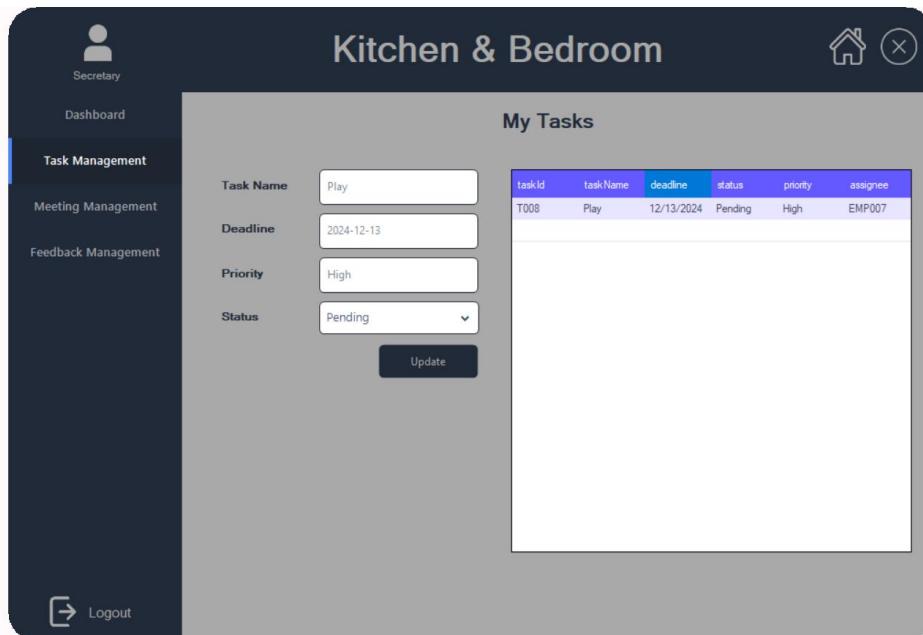


Figure 214 : User Interface 31

Interface No: 32

Interface Name: My Tasks Interface (Secretary)

Description: Task management page for secretary



The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon, a home icon, and a close button. On the left, a vertical sidebar menu lists "Secretary", "Dashboard", "Task Management" (which is selected and highlighted in blue), "Meeting Management", and "Feedback Management". The main content area is titled "My Tasks". It features a form with fields for "Task Name" (Play), "Deadline" (2024-12-13), "Priority" (High), and "Status" (Pending). Below the form is a table with one row:

taskID	taskName	deadline	status	priority	assignee
T008	Play	12/13/2024	Pending	High	EMP007

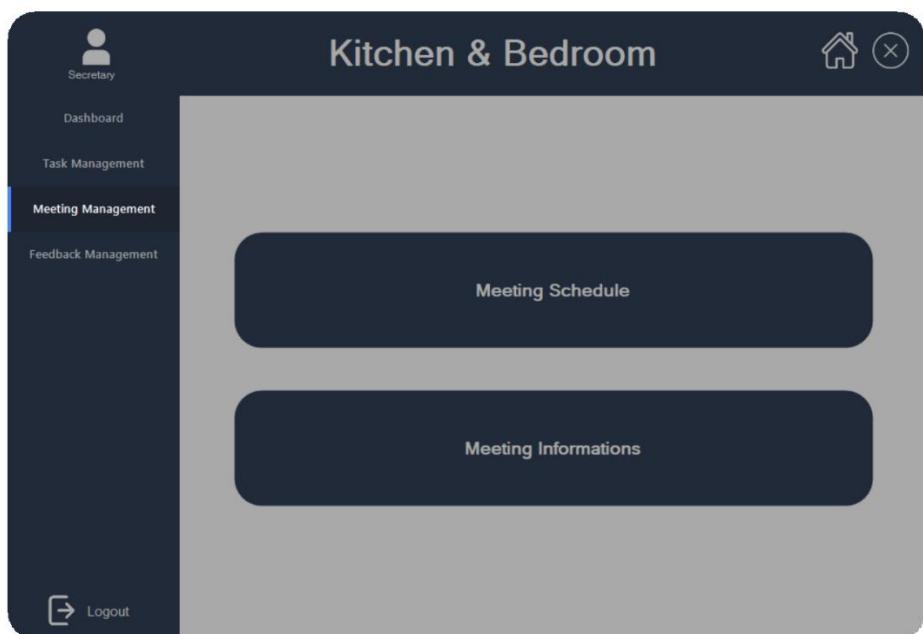
An "Update" button is located at the bottom of the form.

Figure 215 : User Interface 32

Interface No: 33

Interface Name: Meeting Management Interface (Secretary)

Description: Meeting management page for secretary



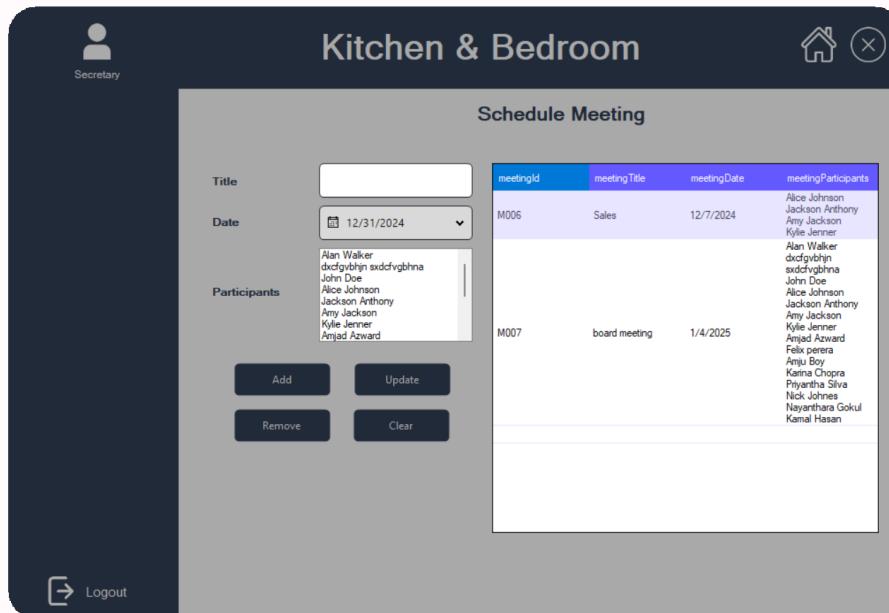
The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon, a home icon, and a close button. On the left, a vertical sidebar menu lists "Secretary", "Dashboard", "Task Management", "Meeting Management" (which is selected and highlighted in blue), and "Feedback Management". The main content area displays two large, rounded rectangular buttons. The top button is labeled "Meeting Schedule" and the bottom button is labeled "Meeting Informations".

Figure 216 : User Interface 33

Interface No: 34

Interface Name: Schedule Meeting Interface (Secretary)

Description: Schedule meeting page for secretary



Kitchen & Bedroom

Schedule Meeting

Title:

Date:

Participants:

meetingId	meetingTitle	meetingDate	meetingParticipants
M006	Sales	12/7/2024	Alice Johnson Jackson Anthony Amy Jackson Kyle Jenner Amjad Azzard Alan Walker dxdgvybjhn axdcfvgbhna John Doe Alice Johnson Jackson Anthony Amy Jackson Kyle Jenner Amjad Azzard
M007	board meeting	1/4/2025	Alan Walker dxdgvybjhn axdcfvgbhna John Doe Alice Johnson Jackson Anthony Amy Jackson Kyle Jenner Amjad Azzard Felix perera Anju Bala Karan Gopra Priyanka Silva Nick Johnes Nayanthara Gokul Kamal Hasan

Add Update

Remove Clear

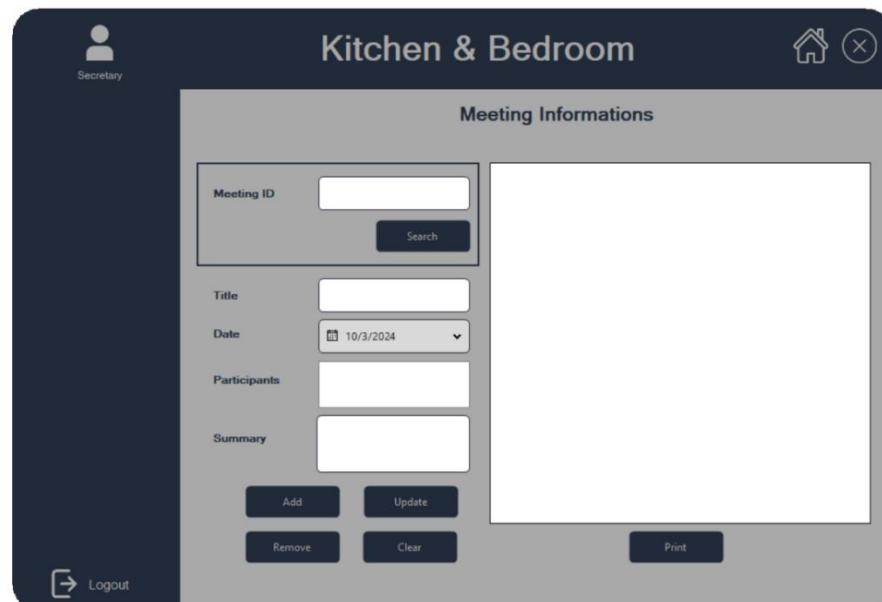
Logout

Figure 217 : User Interface 34

Interface No: 35

Interface Name: Meeting information's Interface (Secretary)

Description: Meeting information page for Secretary



Kitchen & Bedroom

Meeting Informations

Meeting ID:

Search

Title:

Date:

Participants:

Summary:

Add Update

Remove Clear

Print

Logout

Figure 218 : User Interface 35

Interface No: 36

Interface Name: Send Feedback Interface (Secretary)

Description: Feedback management page for secretary

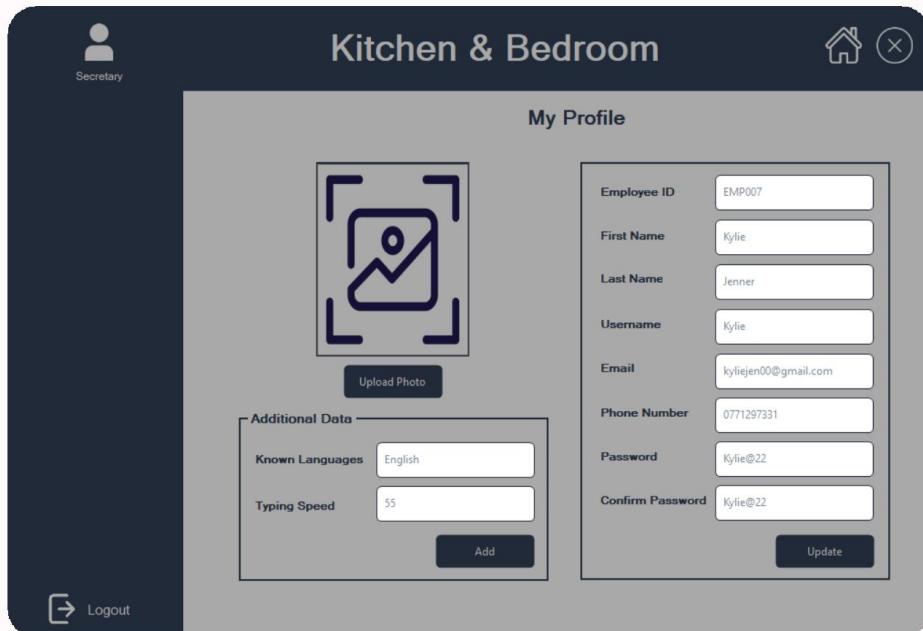


Figure 219 : User Interface 36

Interface No: 37

Interface Name: Administration Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

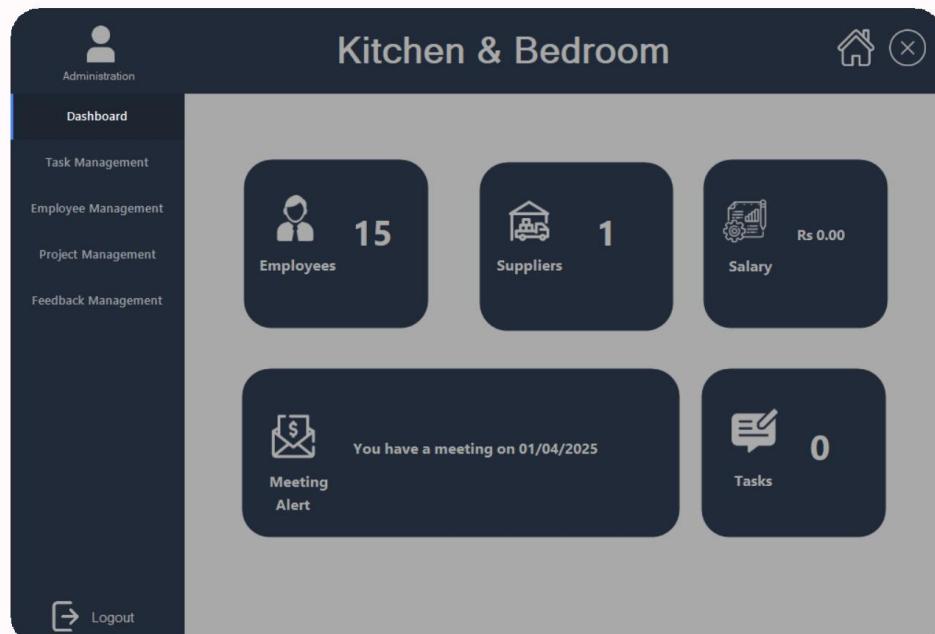


Figure 220 : User Interface 37

Interface No: 38

Interface Name: Administration Profile Interface

Description: My profile page for Administration

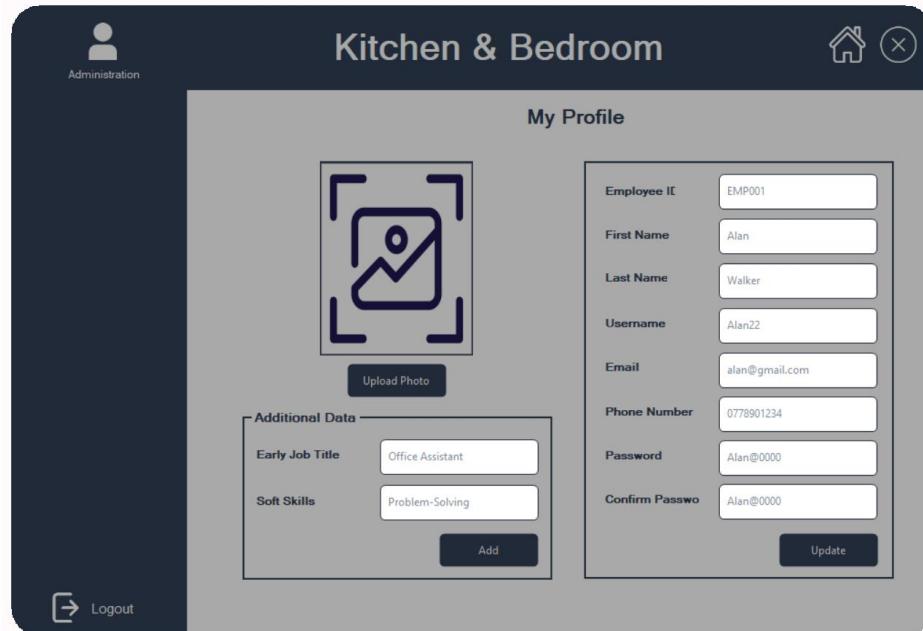


Figure 221 : User Interface 38

Interface No: 39

Interface Name: Assign Task Interface (Administration)

Description: Task management page for Administration

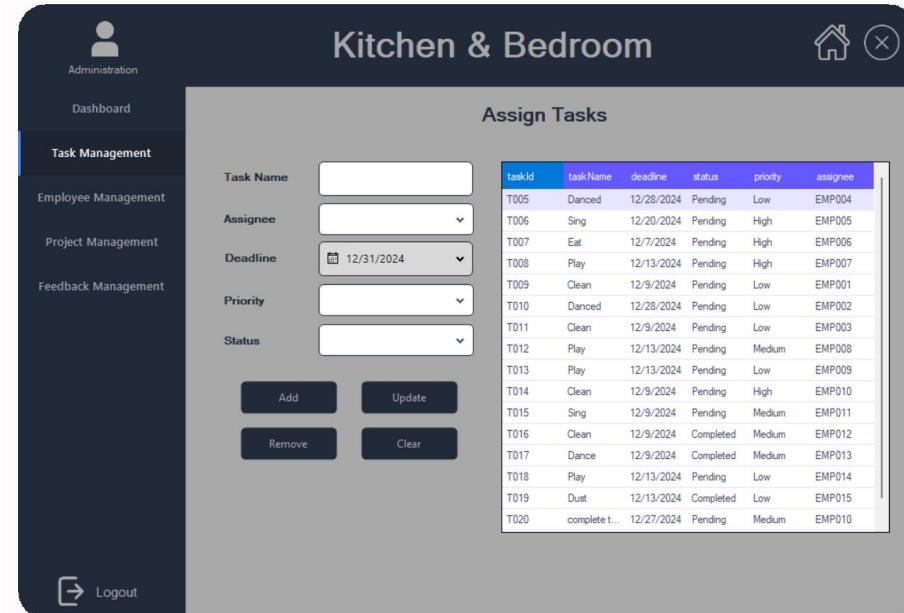


Figure 222 : User Interface 39

Interface No: 40

Interface Name: Mark Employee Attendance (Administration)

Description: Employee management page for Administration

Kitchen & Bedroom

Mark Employee Attendance

Employee ID	Attendance Status	Attendance Date
EMP010	Absent	2024-12-31

Date: 12/31/2024

Employee ID: EMP010

Name: Amju Boy

Attendance: Absent

Add, Update, Remove, Clear

Logout

Figure 223 : User Interface 40

Interface No: 41

Interface Name: Approved Project Information's (Administration)

Description: Project management page for Administration

Kitchen & Bedroom

Approved Project Informations

projectId	projectNa	projectSu	projectLa	projectMa	projectTo	clientId	orderId
P001	grandp...	5/29/2...	30000.00	400000...	430000...	C003	0001
P002	customi...	12/25/...	4000.00	35000.00	39000.00	C003	0003

Project ID: Enter Project Id (P001)

Search

Client ID

Order ID

Project Name

Submission Date

Material Cost

Labour Cost

Total Cost

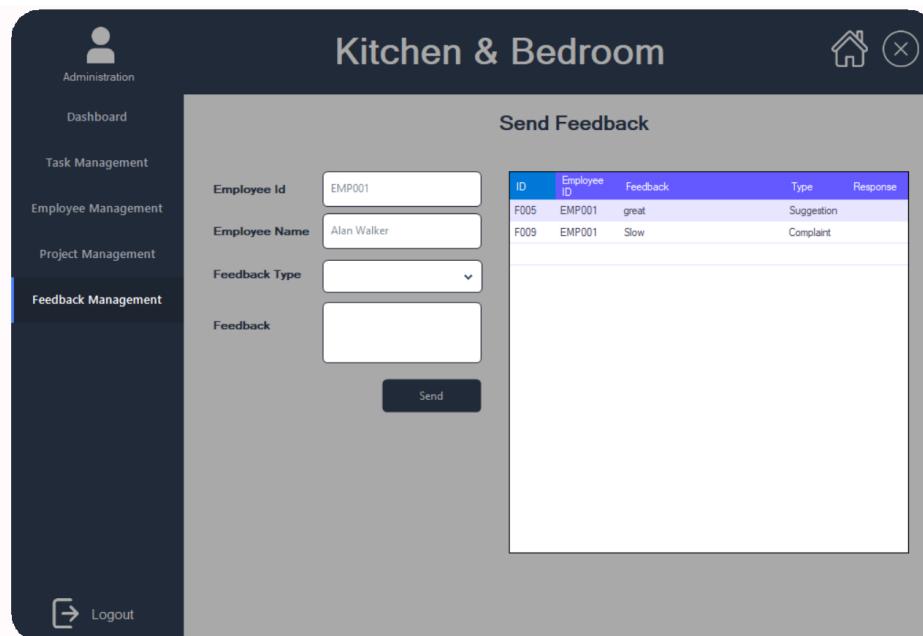
Logout

Figure 224 : User Interface 41

Interface No: 42

Interface Name: Send Feedback Interface (Administration)

Description: Feedback management page for Administration



The screenshot shows a user interface titled "Kitchen & Bedroom". On the left, a sidebar menu for "Administration" lists: Dashboard, Task Management, Employee Management, Project Management, and Feedback Management, with the latter being the active tab. The main content area is titled "Send Feedback". It contains several input fields: "Employee Id" (EMP001), "Employee Name" (Alan Walker), "Feedback Type" (dropdown menu), and a large "Feedback" text area. Below these is a "Send" button. To the right of the form is a table titled "Send Feedback" showing two rows of data:

ID	Employee ID	Feedback	Type	Response
F005	EMP001	great.	Suggestion	
F009	EMP001	Slow	Complaint	

At the bottom left is a "Logout" button.

Figure 225 : User Interface 42

Interface No: 43

Interface Name: Assistant Accountant Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

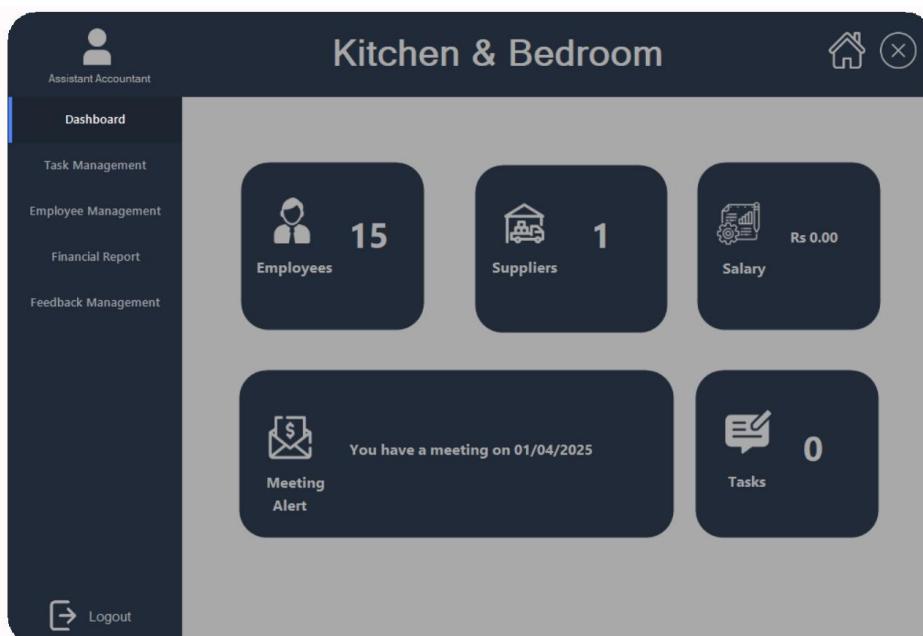


Figure 226 : User Interface 43

Interface No: 44

Interface Name: Assistant Accountant Profile Interface

Description: My profile page for Assistant Accountant

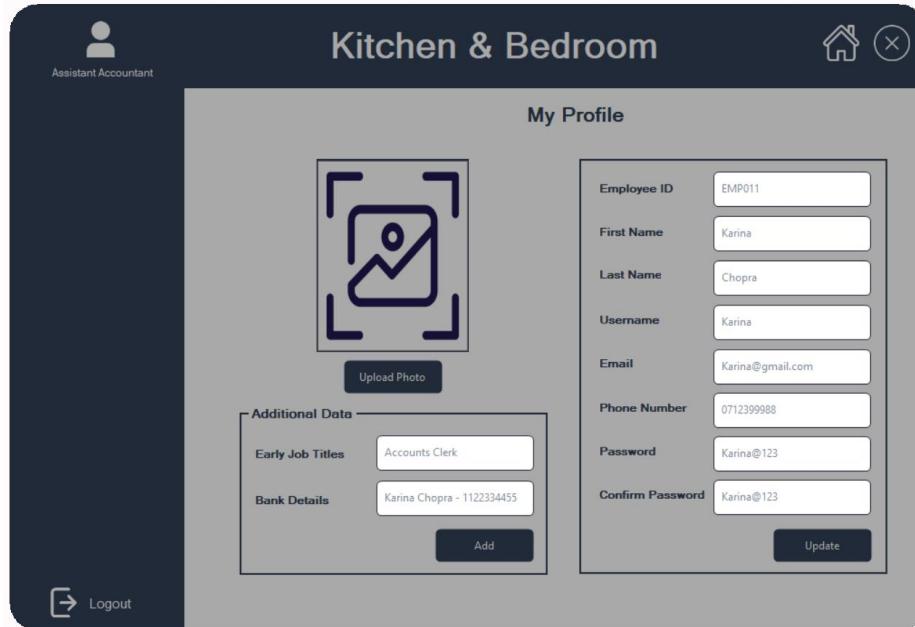


Figure 227 : User Interface 44

Interface No: 45

Interface Name: My Tasks Interface (Assistant Accountant)

Description: Task management page for Assistant accounttant

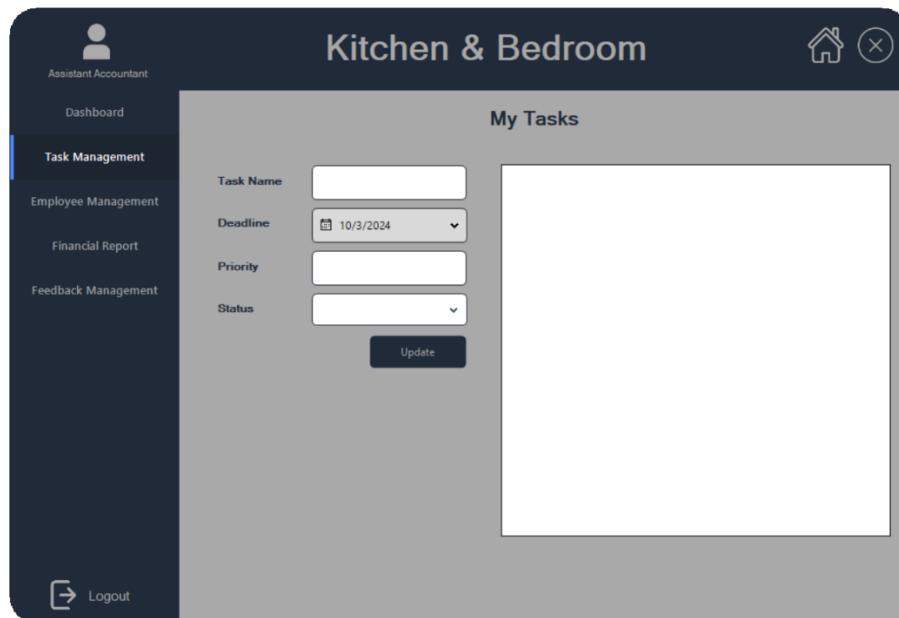


Figure 228 : User Interface 45

Interface No: 46

Interface Name: Employee Management Interface (Assistant Accountant)

Description: Employee management page for Assistant accountant

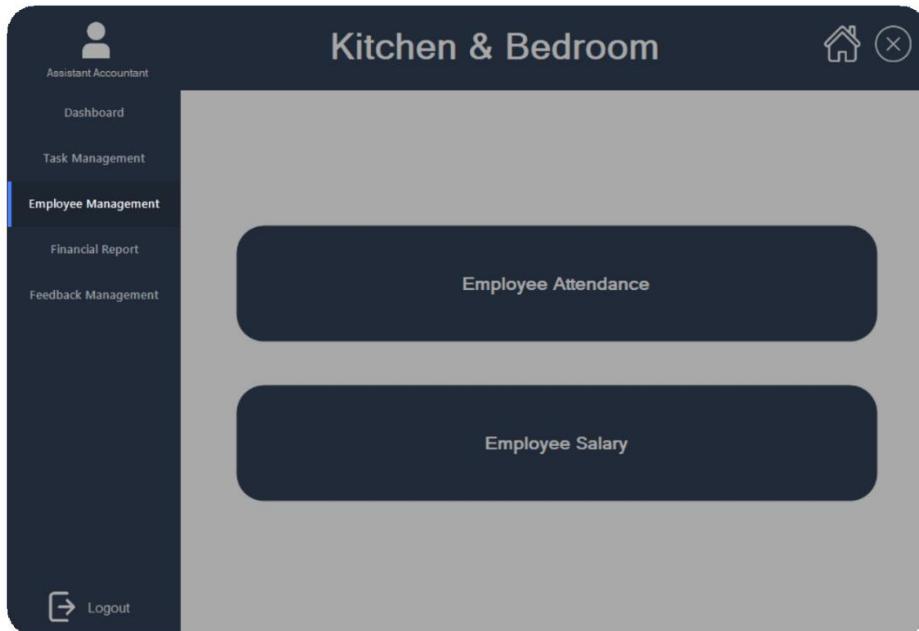


Figure 229 : User Interface 46

Interface No: 47

Interface Name: Employee Attendance Interface (Assistant Accountant)

Description: Employee attendance page for Assistant accountant

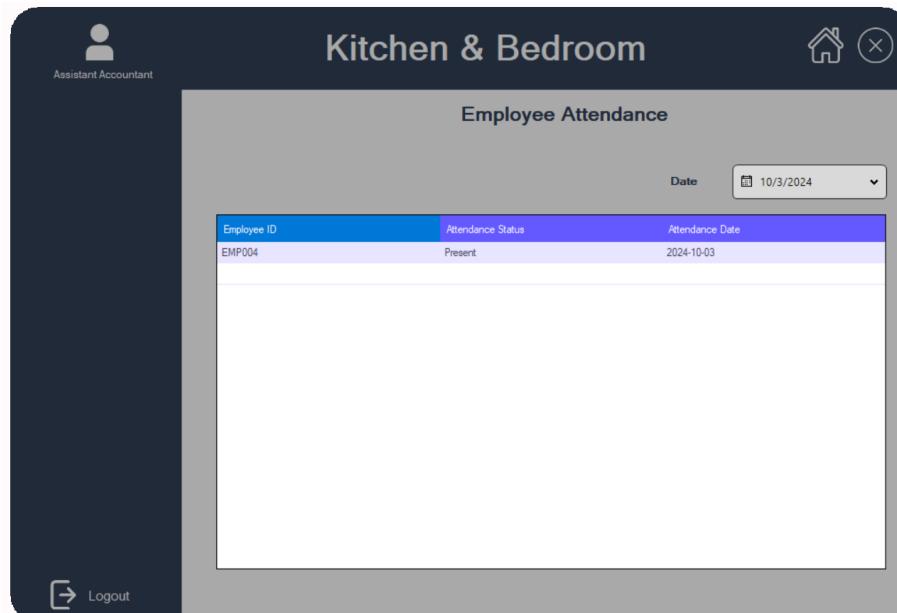


Figure 230 : User Interface 47

Interface No: 48

Interface Name: Calculate Employee Salary Interface (Assistant Accountant)

Description: Calculate employee salary page for Assistant accountant

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon, the title "Kitchen & Bedroom", a home icon, and a close button. On the left, a sidebar for "Assistant Accountant" lists "Dashboard", "Task Management", "Employee Management", "Financial Report" (which is selected and highlighted in blue), and "Feedback Management". The main content area is titled "Calculate Employee Salary". It contains several input fields: "Employee ID", "Name", "Basic Salary", "Payment Date" (set to 10/3/2024), "Status", and four numerical fields for "Available Leave", "Bonus", "Deduction", and "Final Amount". Below these fields are four buttons: "Add", "Update", "Remove", and "Clear". To the right of the input fields is a table titled "salaryId" with columns: basicSal, available, bonus, deduction, finalAmou, salaryPay, and employee. The table lists seven rows of salary data. At the bottom left is a "Logout" button.

Figure 231 : User Interface 48

Interface No: 49

Interface Name: Generated Financial Reports Interface (Assistant Accountant)

Description: Financial report generating page for Assistant accountant

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon, the title "Kitchen & Bedroom", a home icon, and a close button. On the left, a sidebar for "Assistant Accountant" lists "Dashboard", "Task Management", "Employee Management", "Financial Report" (selected and highlighted in blue), and "Feedback Management". The main content area is titled "Generated Financial Reports". It features two date pickers: "Start Date" (10/3/2024) and "End Date" (10/3/2024). A large empty rectangular box is positioned below the date pickers, likely for displaying generated reports. At the bottom left is a "Logout" button.

Figure 232 : User Interface 49

Interface No: 50

Interface Name: Send Feedback Interface (Assistant Accountant)

Description: Feedback management page for Assistant accountant

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top, there is a user profile icon labeled "Assistant Accountant" and navigation icons for "Home" and "Logout". The left sidebar contains a navigation menu with items: Dashboard, Task Management, Employee Management, Financial Report, and Feedback Management, with "Feedback Management" being the active tab. The main content area is titled "Send Feedback". It includes input fields for "Employee Id" (EMP011), "Employee Name" (Karina Chopra), "Feedback Type" (dropdown menu), and a large text area for "Feedback". Below these fields is a "Send" button. To the right of the form is a table titled "Feedback Log" with columns: ID, Employee ID, Feedback, Type, and Response. One entry is visible: F019, EMP011, Poor Communication, Complaint.

Figure 233 : User Interface 50

Interface No: 51

Interface Name: Accountant Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

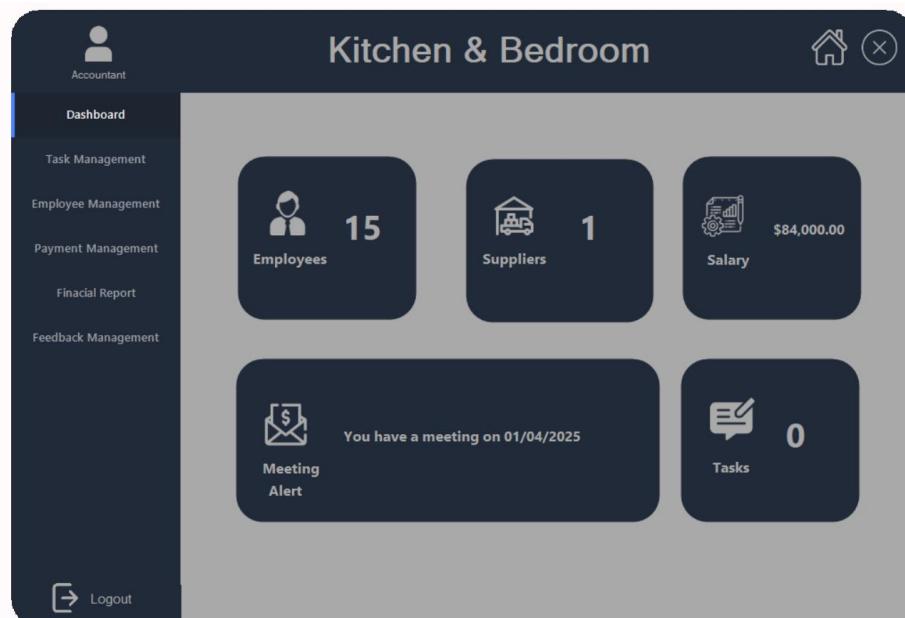


Figure 234 : User Interface 51

Interface No: 52

Interface Name: Accountant Profile Interface

Description: My profile page for Accountant

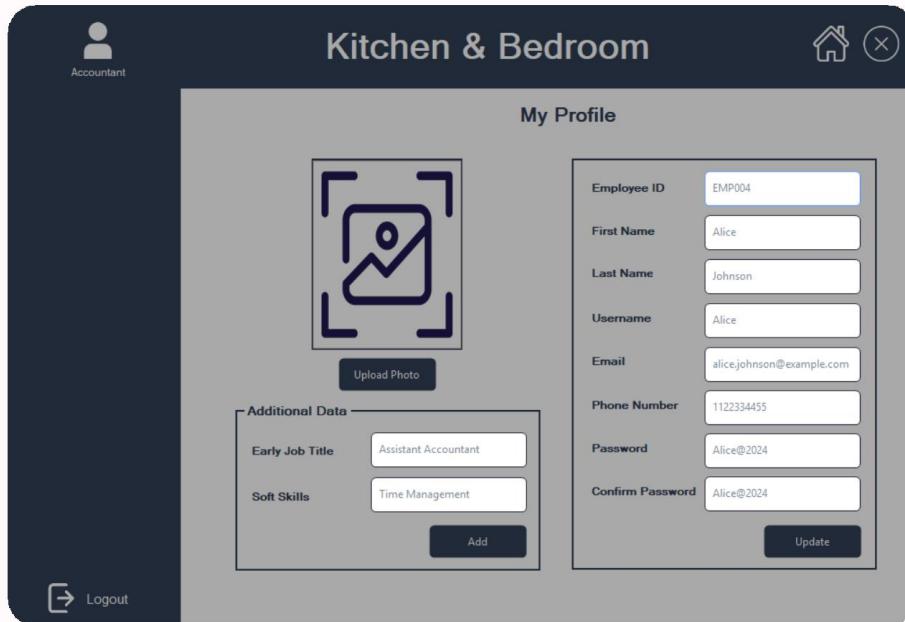


Figure 235 : User Interface 52

Interface No: 53

Interface Name: My Tasks Interface (Accountant)

Description: Task management page for Accountant

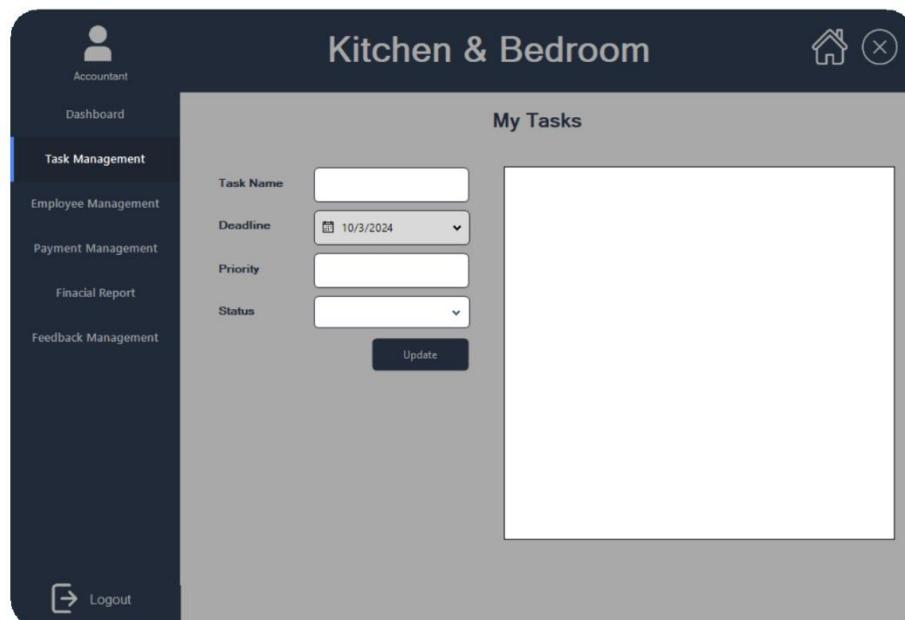


Figure 236 : User Interface 53

Interface No: 54

Interface Name: Employee Attendance Interface (Accountant)

Description: View Employee attendance page for Accountant

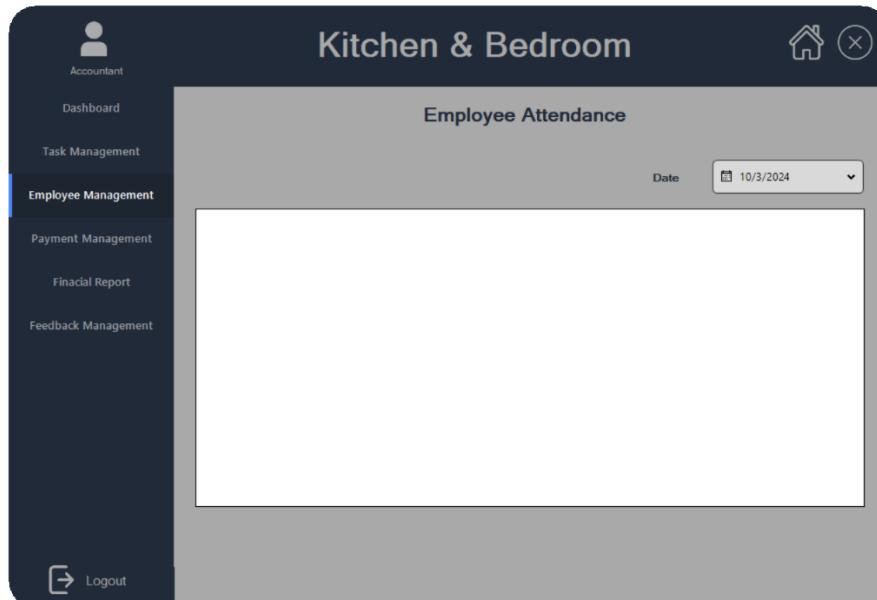


Figure 237 : User Interface 54

Interface No: 55

Interface Name: Payment Management Interface (Accountant)

Description: Payment management page for Accountant

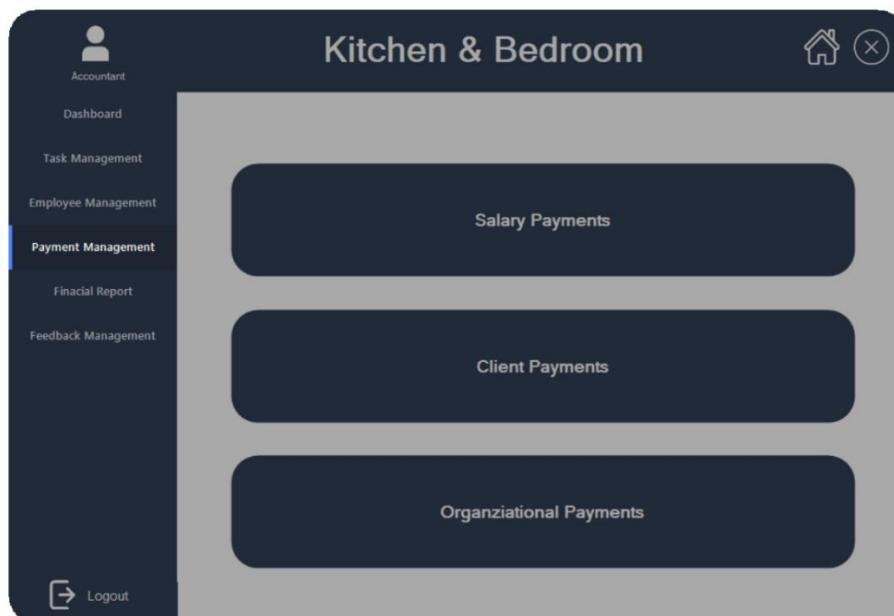


Figure 238 : User Interface 55

Interface No: 56

Interface Name: Calculate Employee Salary Interface (Accountant)

Description: Calculate employee salary page for Accountant

Kitchen & Bedroom

Calculate Employee Salary

salaryId	basicSal	available	bonus	deduction	finalAmou	salaryPay	employee
SAL001	45550.00	4	4000.00	0.00	45550.00	Not Paid	EMP004
SAL004	45550.00	5	5000.00	0.00	50550.00	Paid	EMP004
SAL005	80000.00	4	4000.00	0.00	84000.00	Paid	EMP004
SAL006	70000.00	5	5000.00	0.00	75000.00	Not Paid	EMP010
SAL007	70000.00	4	4000.00	0.00	74000.00	Not Paid	EMP010

Employee ID:

Name:

Basic Salary:

Payment Date:

Status:

Add

Update

Remove

Clear

Available Leave:

Bonus:

Deduction:

Final Amount:

Logout

Figure 239 : User Interface 56

Interface No: 57

Interface Name: Calculate Client Payments Interface (Accountant)

Description: Calculate client payment page for Accountant

Kitchen & Bedroom

Calculate Client Payments

Client ID:

Client Name:

Order ID:

Project Cost:

Additional Cost:

Final Cost:

Payment Date:

Status:

Add

Update

Remove

Clear

Logout

Figure 240 : User Interface 57

Interface No: 58

Interface Name: Calculate Organizational Payments Interface (Accountant)

Description: Calculate organizational payment page for Accountant

Kitchen & Bedroom

Calculate Organizational Payments

Payment Type

Payment Date 10/3/2024

Amount

Status

Add Update
Remove Clear

Logout

Figure 241 : User Interface 58

Interface No: 59

Interface Name: Generate Financial Reports Interface (Accountant)

Description: Generate financial report page for Accountant

Kitchen & Bedroom

Generate Financial Report

Start Date 10/3/2024

End Date 10/3/2024

Total Salary Payments

Total Client Payments

Total Organizational Payments

Print

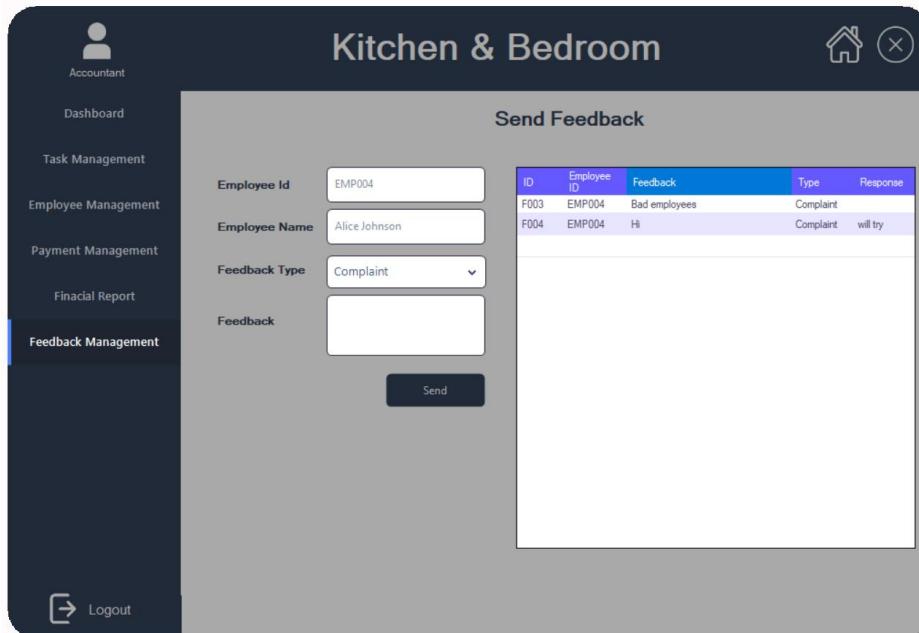
Logout

Figure 242 : User Interface 59

Interface No: 60

Interface Name: Send Feedback interface (Accountant)

Description: Feedback management page for Accountant



The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top left is a user icon labeled "Accountant". The top right features a house icon and a close button. The main content area is titled "Send Feedback". On the left is a sidebar with the following menu items: Dashboard, Task Management, Employee Management, Payment Management, Financial Report, and Feedback Management, with "Feedback Management" currently selected. The main form contains fields for "Employee Id" (EMP004), "Employee Name" (Alice Johnson), "Feedback Type" (Complaint), and a large "Feedback" text area. Below these is a "Send" button. To the right is a table showing feedback records:

ID	Employee ID	Feedback	Type	Response
F003	EMP004	Bad employees	Complaint	
F004	EMP004	Hi	Complaint	will try

Figure 243 : User Interface 60

Interface No: 61

Interface Name: Customer Relations Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

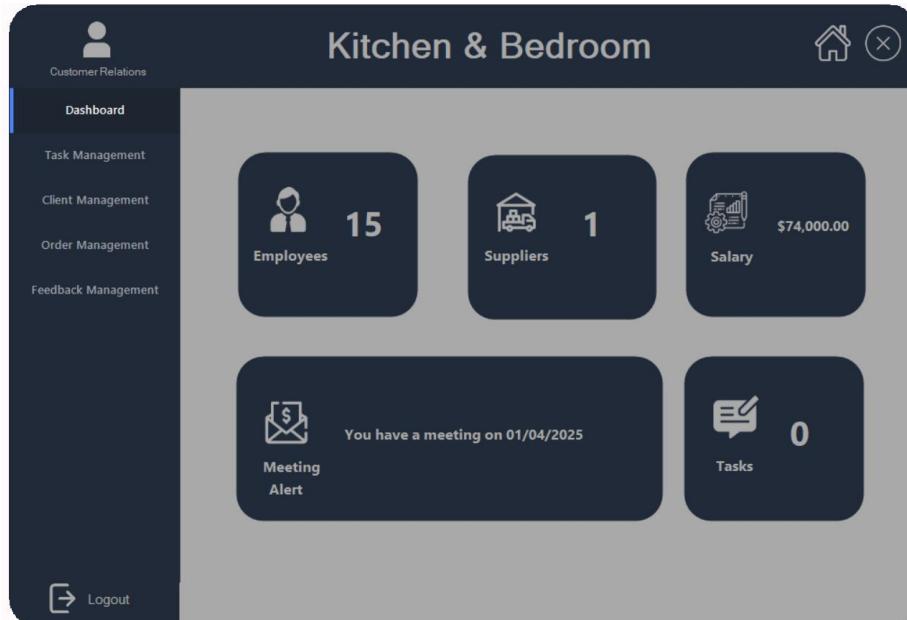


Figure 244 : User Interface 61

Interface No: 62

Interface Name: Customer Relations Profile Interface

Description: My profile page for Customer Relations

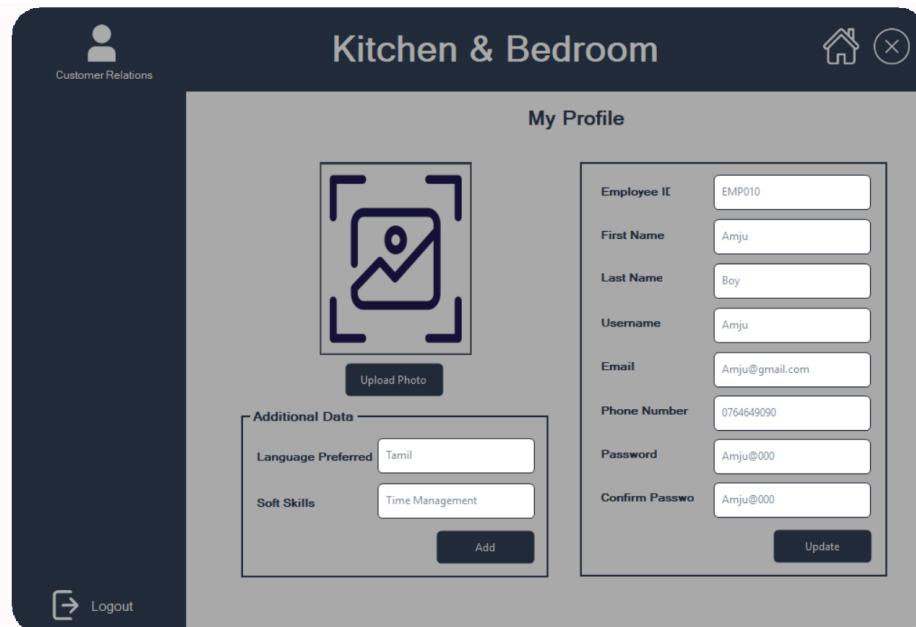


Figure 245 : User Interface 62

Interface No: 63

Interface Name: My Task Interface (Customer Relations)

Description: Task management for Customer Relations

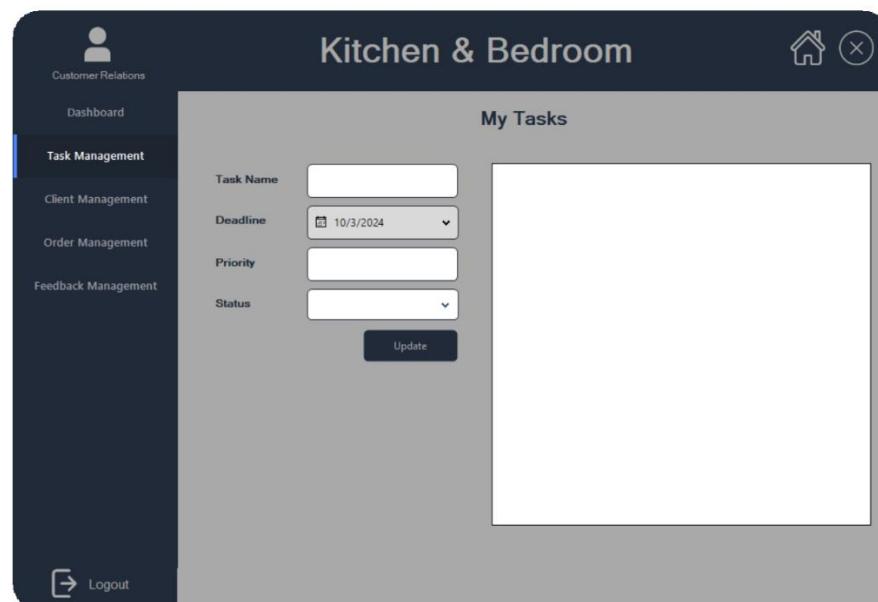
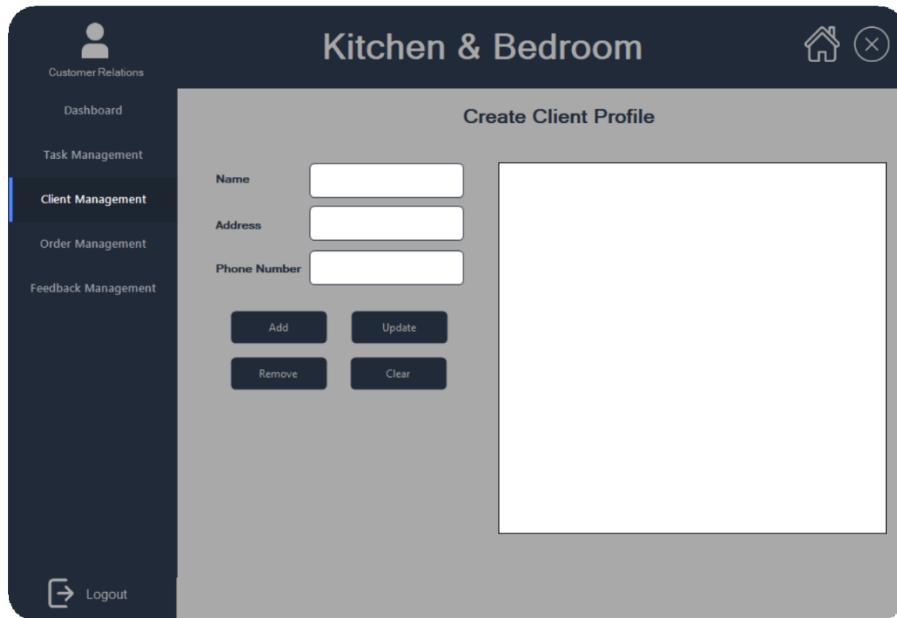


Figure 246 : User Interface 63

Interface No: 64

Interface Name: Create Client Profile Interface (Customer Relations)

Description: Client management for Customer Relations



Kitchen & Bedroom

Create Client Profile

Name:

Address:

Phone Number:

Add Update Remove Clear

Logout

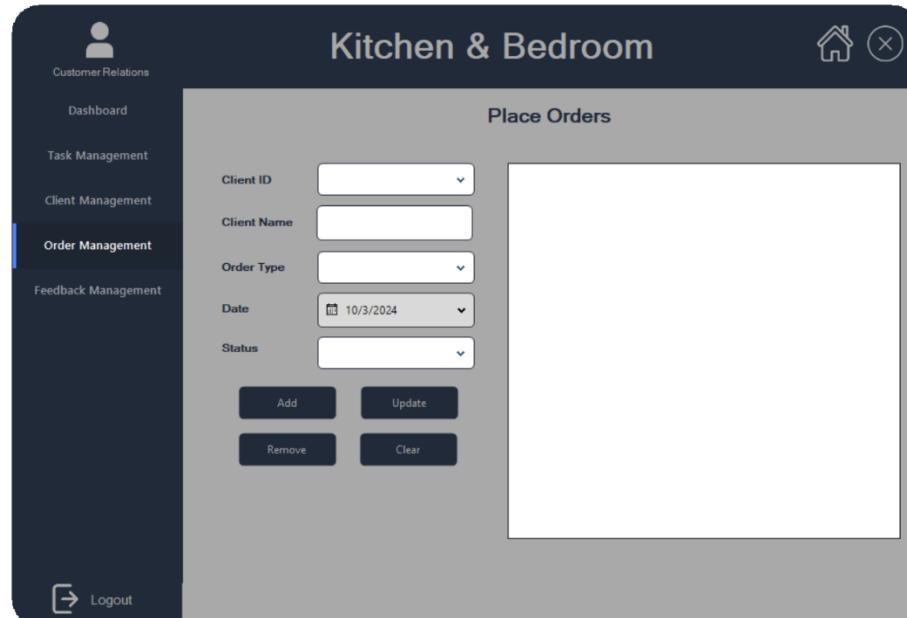
This interface is titled 'Create Client Profile' under the 'Kitchen & Bedroom' header. It features three input fields for 'Name', 'Address', and 'Phone Number'. Below these are four buttons: 'Add', 'Update', 'Remove', and 'Clear'. A large empty rectangular area is positioned to the right of the form. The left sidebar includes 'Customer Relations' and 'Task Management' sections, with 'Client Management' currently selected. The bottom left shows a 'Logout' button.

Figure 247 : User Interface 64

Interface No: 65

Interface Name: Place Orders Interface (Customer Relations)

Description: Order management for Customer Relations



Kitchen & Bedroom

Place Orders

Client ID:

Client Name:

Order Type:

Date:

Status:

Add Update Remove Clear

Logout

This interface is titled 'Place Orders' under the 'Kitchen & Bedroom' header. It contains five dropdown or input fields: 'Client ID', 'Client Name', 'Order Type', 'Date' (set to 10/3/2024), and 'Status'. Below these are four buttons: 'Add', 'Update', 'Remove', and 'Clear'. A large empty rectangular area is to the right. The left sidebar includes 'Customer Relations' and 'Task Management' sections, with 'Order Management' currently selected. The bottom left shows a 'Logout' button.

Figure 248 : User Interface 65

Interface No: 66

Interface Name: Send Feedback Interface (Customer Relations)

Description: Feedback management for Customer Relations

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". At the top left is a user icon labeled "Customer Relations". On the right are a house icon and a close button. The main content area is titled "Send Feedback". It contains four input fields: "Employee Id", "Employee Name", "Feedback Type" (a dropdown menu), and "Feedback" (a text area). Below these is a "Send" button. To the left of the main content is a sidebar with a dark background and white text, listing "Dashboard", "Task Management", "Client Management", "Order Management", and "Feedback Management", with "Feedback Management" being the active tab. At the bottom left is a "Logout" button.

Figure 249 : User Interface 66

Interface No: 67

Interface Name: Designer Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

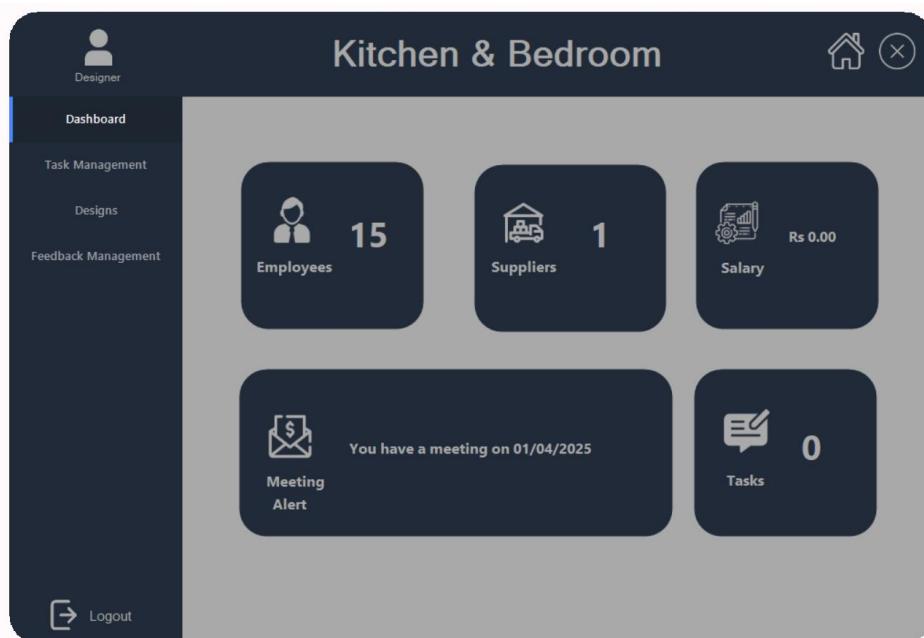


Figure 250 : User Interface 67

Interface No: 68

Interface Name: Designer Profile Interface

Description: View my profile for Designer

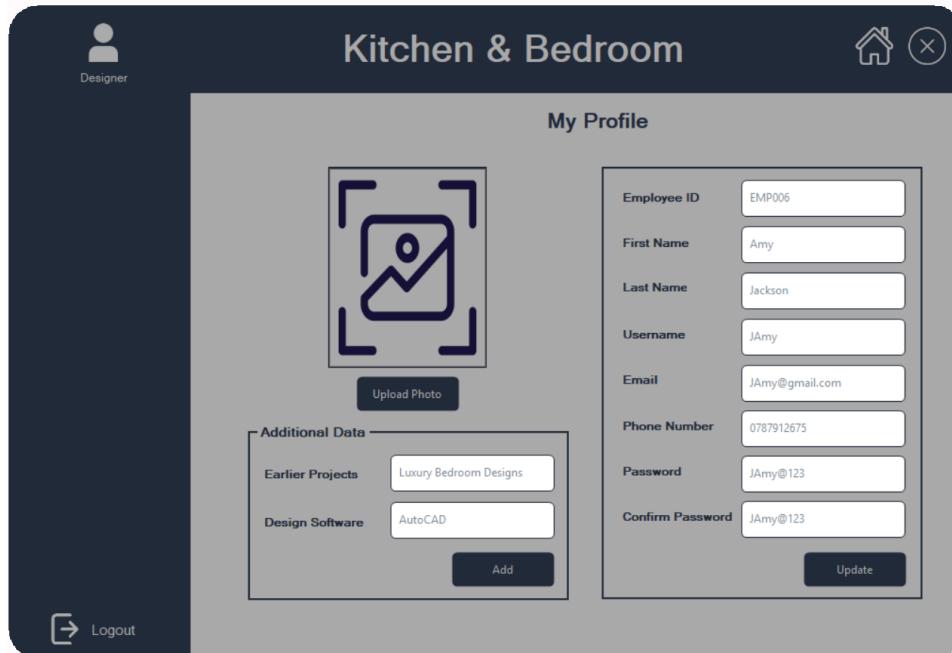


Figure 251 : User Interface 68

Interface No: 69

Interface Name: My Tasks Interface (Designer)

Description: Task management for Designer

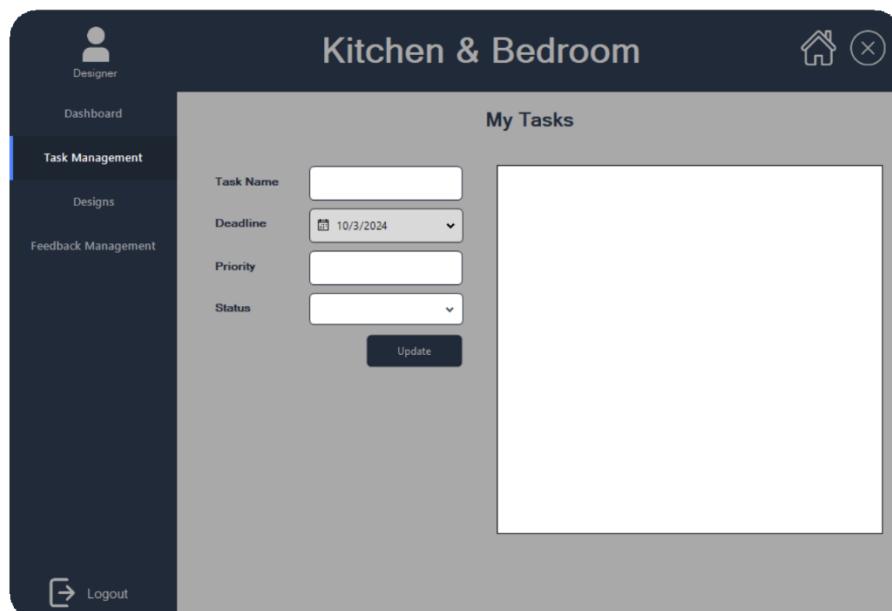


Figure 252 : User Interface 69

Interface No: 70

Interface Name: Upload Designs Interface (Designer)

Description: Design management for Designer

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon labeled "Designer", a home icon, and a close button. On the left, a vertical sidebar menu lists "Dashboard", "Task Management", "Designs" (which is highlighted with a blue underline), and "Feedback Management". At the bottom of the sidebar is a "Logout" button. The main content area is titled "Upload Designs" and contains the following form fields:

Project ID	<input type="text"/>
Client ID	<input type="text"/>
Design Name	<input type="text"/>
Design File	<input type="text"/> <input type="button" value="Browse"/>
Designed Date	<input type="date" value="10/3/2024"/>
Description	<input type="text"/>

Below the form are four buttons: "Add", "Update", "Remove", and "Clear". To the right of the form is a large, empty white rectangular area.

Figure 253 : User Interface 70

Interface No: 71

Interface Name: Send Feedback Interface (Designer)

Description: Feedback management for Designer

The screenshot shows a mobile application interface titled "Kitchen & Bedroom". The top navigation bar includes a user icon labeled "Designer", a home icon, and a close button. On the left, a vertical sidebar menu lists "Dashboard", "Task Management", "Designs", and "Feedback Management" (which is highlighted with a blue underline). At the bottom of the sidebar is a "Logout" button. The main content area is titled "Send Feedback" and contains the following form fields:

Employee Id	<input type="text"/>
Employee Name	<input type="text"/>
Feedback Type	<input type="text"/>
Feedback	<input type="text"/>

Below the form is a single "Send" button. To the right of the form is a large, empty white rectangular area.

Figure 254 : User Interface 71

Interface No: 72

Interface Name: Factory Manager Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks



Figure 255 : User Interface 72

Interface No: 73

Interface Name: Factory Manager Profile Interface

Description: My profile page for Designer

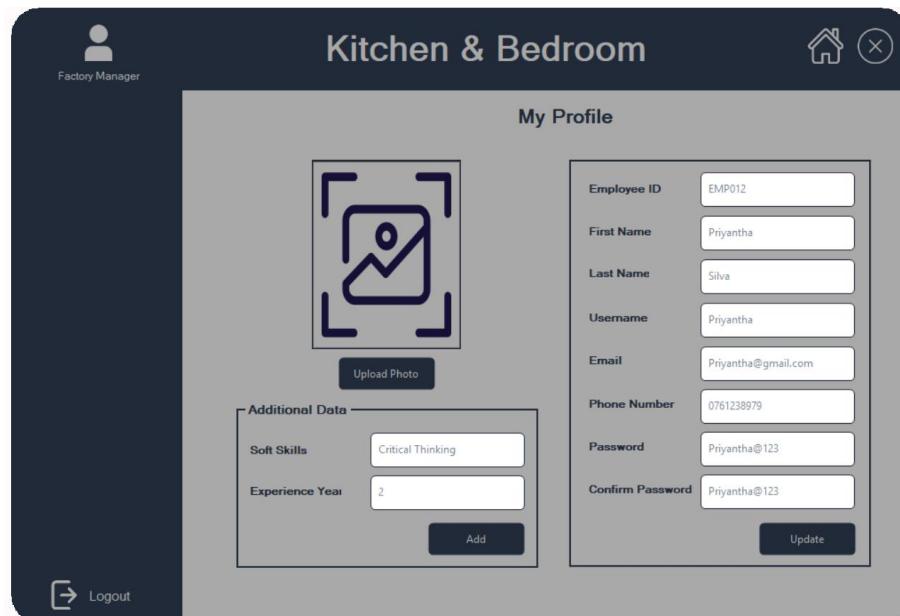


Figure 256 : User Interface 73

Interface No: 74

Interface Name: My Tasks Interface (Factory Manager)

Description: Task management for Factory Manager

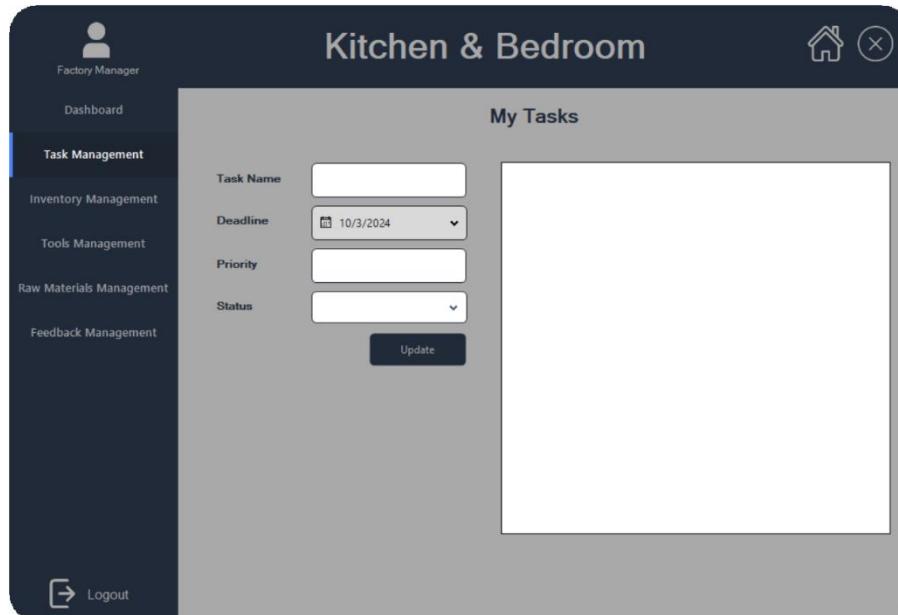


Figure 257 : User Interface 75

Interface No: 75

Interface Name: Inventory Management Interface (Factory Manager)

Description: Inventory management for Factory Manager

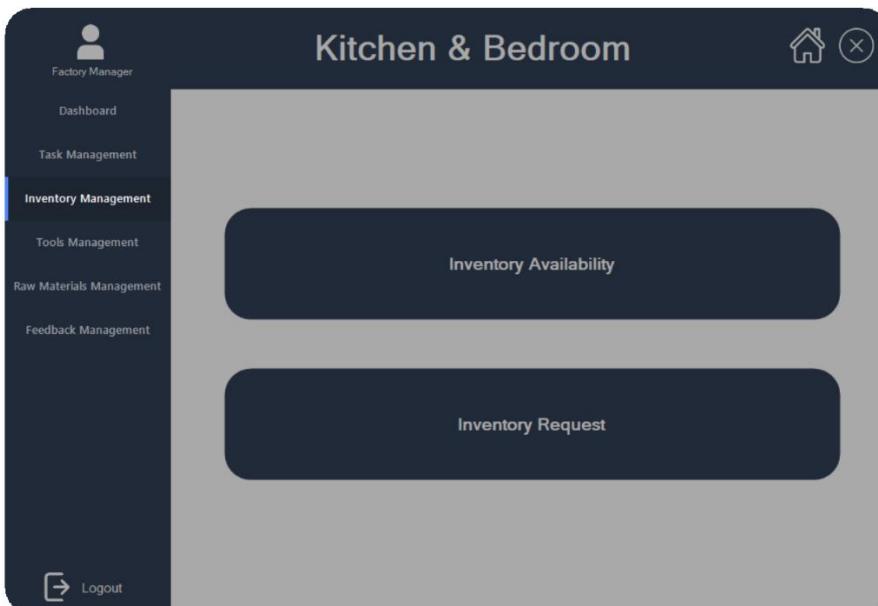
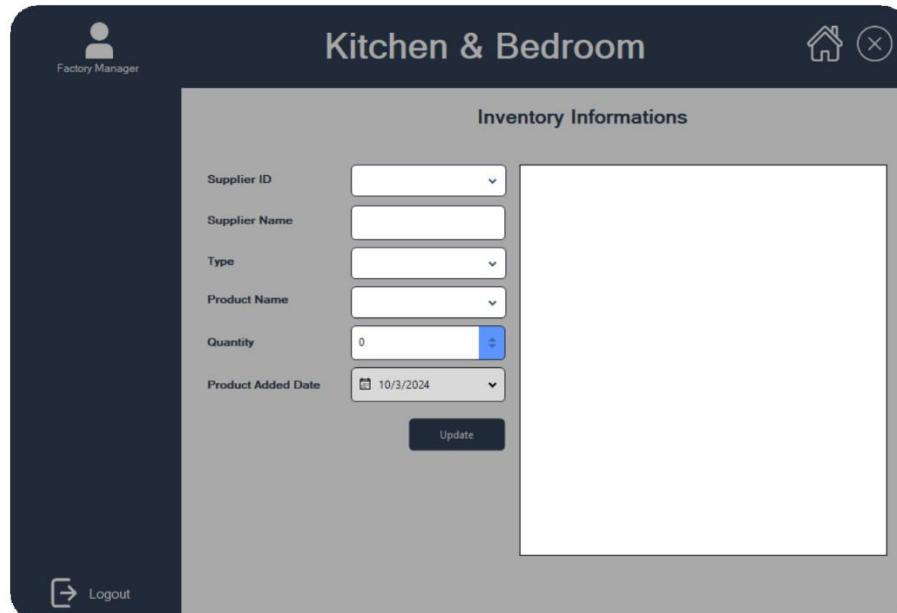


Figure 258 : User Interface 76

Interface No: 76

Interface Name: Inventory Information's Interface (Factory Manager)

Description: Add inventory information for Factory Manager



Kitchen & Bedroom

Factory Manager

Logout

Inventory Informations

Supplier ID: [Input Field]

Supplier Name: [Input Field]

Type: [Input Field]

Product Name: [Input Field]

Quantity: [Input Field] + [Increment/Decrement Buttons]

Product Added Date: [Input Field] 10/3/2024

Update

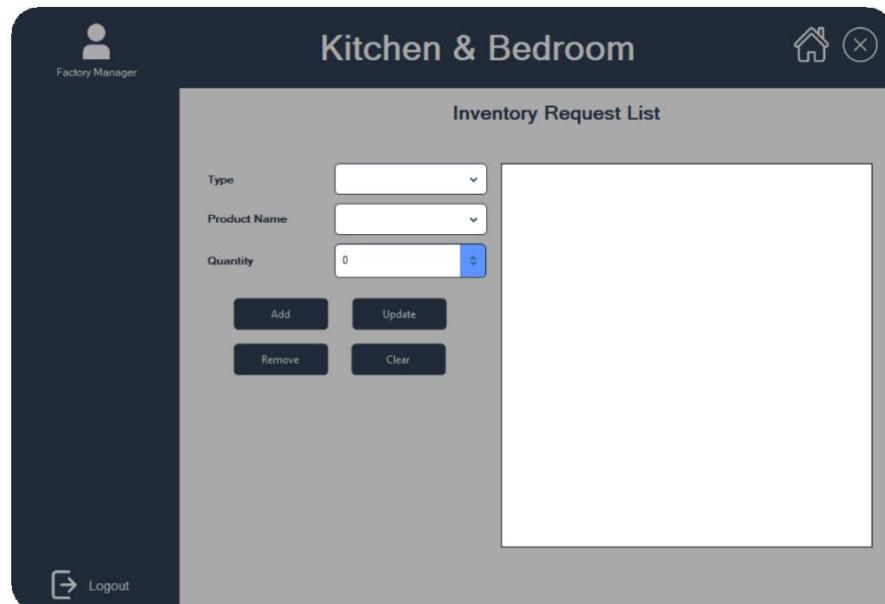
The interface is a mobile-style application. It features a dark header bar with the title "Kitchen & Bedroom" and a "Factory Manager" logo. On the left side of the main content area, there is a vertical sidebar with a "Logout" button at the bottom. The main content area is titled "Inventory Informations". It contains several input fields: "Supplier ID", "Supplier Name", "Type", "Product Name", "Quantity" (with increment and decrement buttons), and "Product Added Date". A "Update" button is located below the quantity field.

Figure 259 : User Interface 76

Interface No: 77

Interface Name: Inventory Request List Interface (Factory Manager)

Description: Inventory request list for Factory Manager



Kitchen & Bedroom

Factory Manager

Logout

Inventory Request List

Type: [Input Field]

Product Name: [Input Field]

Quantity: [Input Field] + [Increment/Decrement Buttons]

Add

Update

Remove

Clear

The interface is a mobile-style application. It features a dark header bar with the title "Kitchen & Bedroom" and a "Factory Manager" logo. On the left side of the main content area, there is a vertical sidebar with a "Logout" button at the bottom. The main content area is titled "Inventory Request List". It contains three input fields: "Type", "Product Name", and "Quantity" (with increment and decrement buttons). Below these fields are four buttons: "Add", "Update", "Remove", and "Clear".

Figure 260 : User Interface 77

Interface No: 78

Interface Name: Tool Information's Interface (Factory Manager)

Description: Tool management for Factory Manager

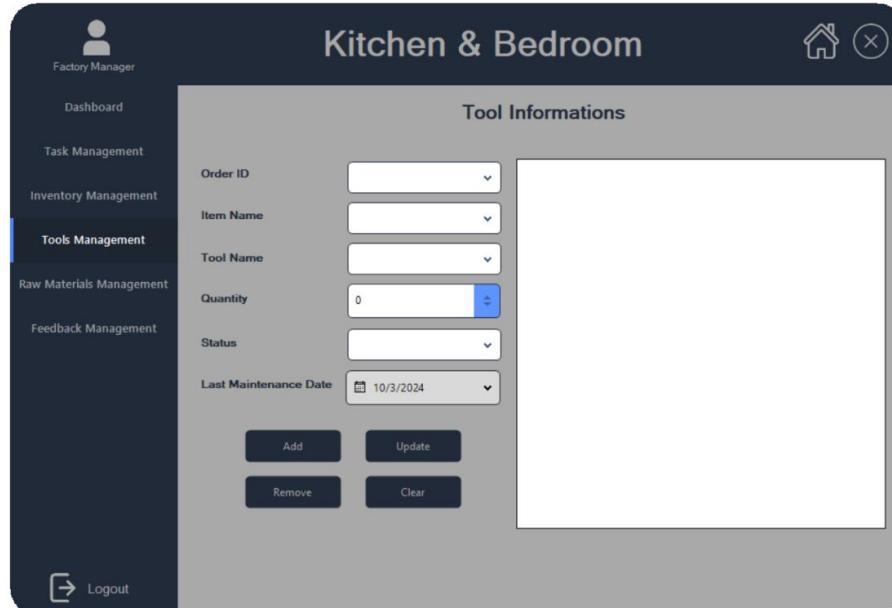


Figure 261 : User Interface 78

Interface No: 79

Interface Name: Raw Material Information's Interface (Factory Manager)

Description: Raw Material management for Factory Manager

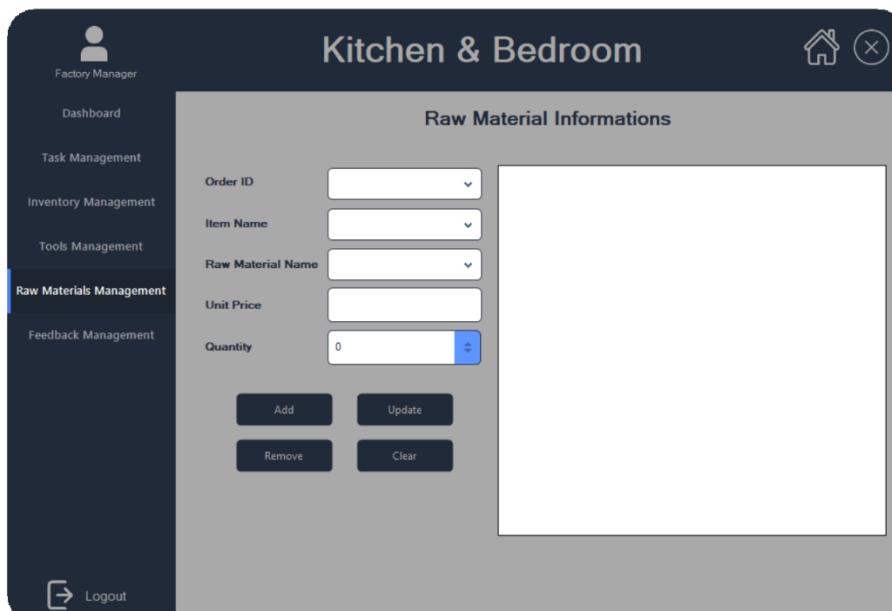
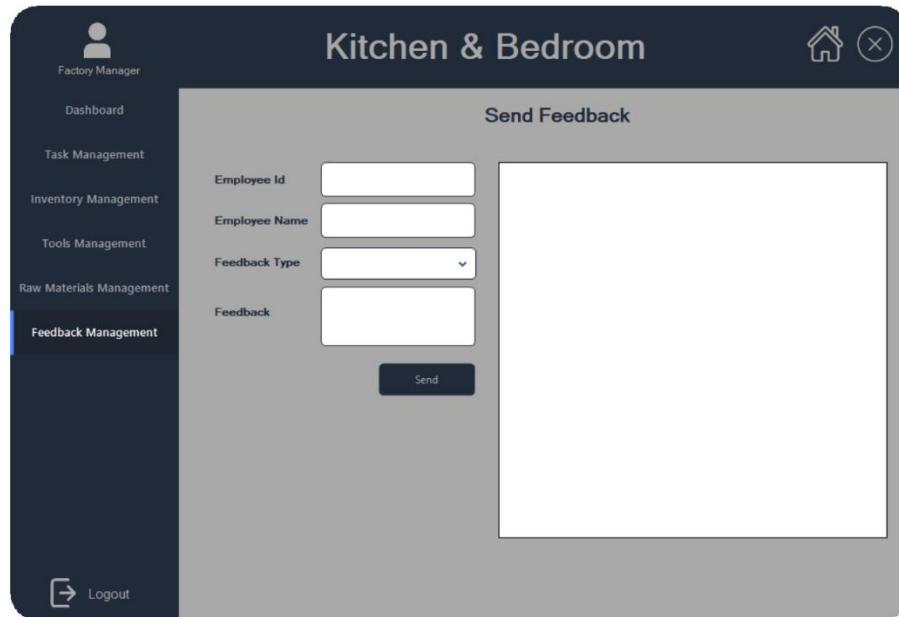


Figure 262 : User Interface 7

Interface No: 80

Interface Name: Send Feedback Interface (Factory Manager)

Description: Feedback management for Factory Manager



Kitchen & Bedroom

Send Feedback

Employee Id: [Input Field]

Employee Name: [Input Field]

Feedback Type: [Dropdown]

Feedback: [Text Area]

Send

Logout

This interface is titled "Kitchen & Bedroom". It features a sidebar with a user icon and the title "Factory Manager", followed by a list of management modules: Dashboard, Task Management, Inventory Management, Tools Management, Raw Materials Management, and Feedback Management, with Feedback Management being the active tab. The main content area is titled "Send Feedback" and contains fields for Employee ID, Employee Name, Feedback Type (dropdown), and a large text area for Feedback, with a "Send" button at the bottom. A large empty box is positioned to the right of the feedback form.

Figure 263 : User Interface 80

Interface No: 81

Interface Name: Production Manager Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks



Figure 264 : User Interface 81

Interface No: 82

Interface Name: Production Manager Profile Interface

Description: View my profile page for Production Manager

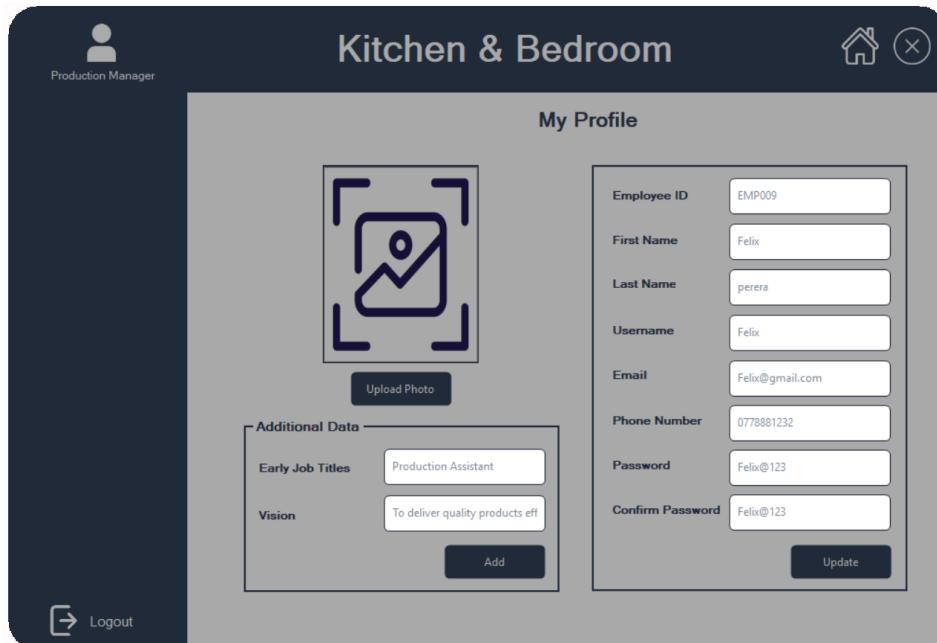


Figure 265 : User Interface 82

Interface No: 83

Interface Name: My Tasks Interface (Production Manager)

Description: Task management page for Production Manager

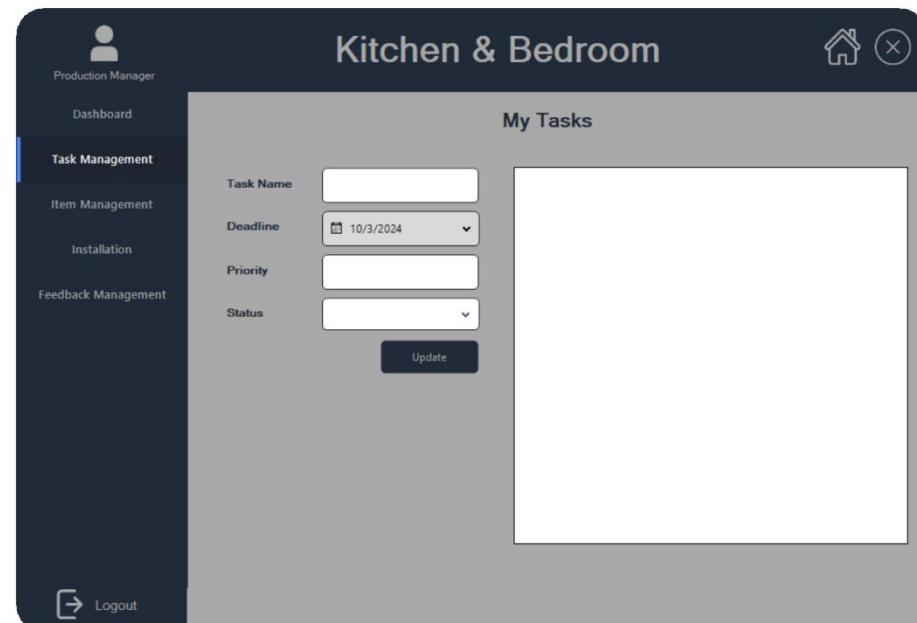
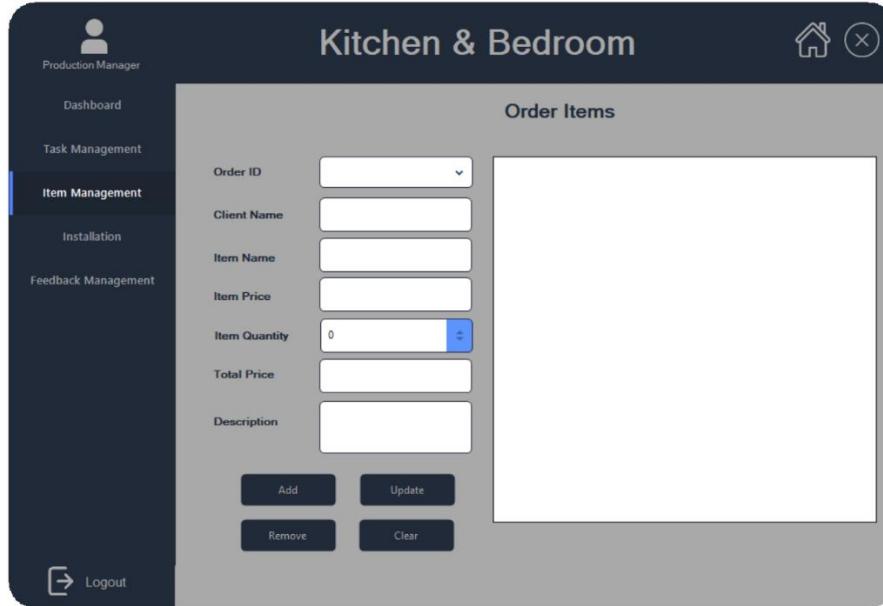


Figure 266 : User Interface 83

Interface No: 84

Interface Name: Order Items Interface (Production Manager)

Description: Item management page for Production Manager



Kitchen & Bedroom

Production Manager

Order Items

Logout

Dashboard

Task Management

Item Management

Installation

Feedback Management

Order ID:

Client Name:

Item Name:

Item Price:

Item Quantity: 0

Total Price:

Description:

Add

Update

Remove

Clear

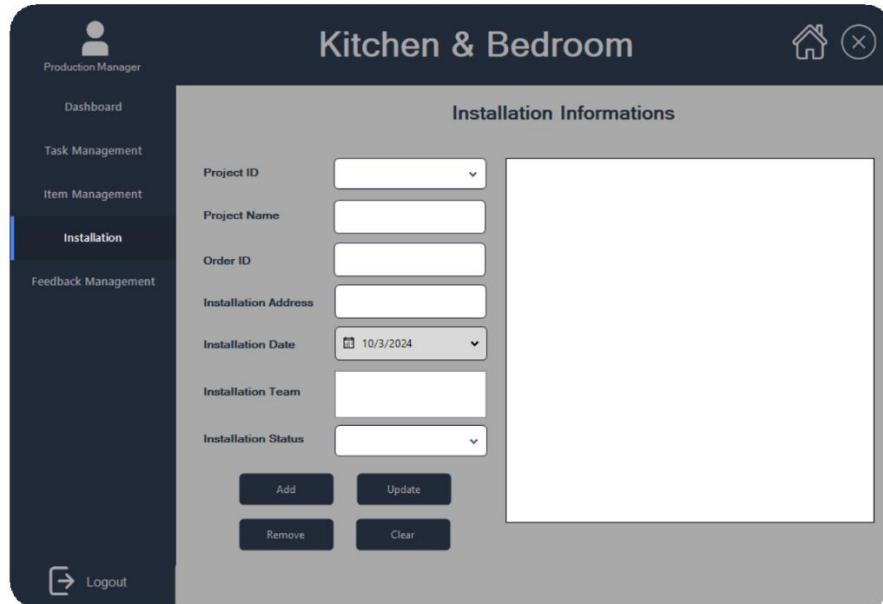
The interface is titled "Kitchen & Bedroom" at the top right. On the left, there's a sidebar with a user icon and the text "Production Manager". Below it are links: "Dashboard", "Task Management", "**Item Management**" (which is highlighted with a blue vertical bar), "Installation", and "Feedback Management". At the bottom of the sidebar is a "Logout" button. The main content area is titled "Order Items". It contains several input fields: "Order ID", "Client Name", "Item Name", "Item Price", "Item Quantity" (with a plus-minus button), "Total Price", and "Description". Below these are four buttons: "Add", "Update", "Remove", and "Clear". To the right of the input fields is a large, empty rectangular area.

Figure 267 : User Interface 84

Interface No: 85

Interface Name: Installation Information's Interface (Production Manager)

Description: Installation management page for Production Manager



Kitchen & Bedroom

Production Manager

Installation Informations

Logout

Dashboard

Task Management

Item Management

Installation

Feedback Management

Project ID:

Project Name:

Order ID:

Installation Address:

Installation Date: 10/3/2024

Installation Team:

Installation Status:

Add

Update

Remove

Clear

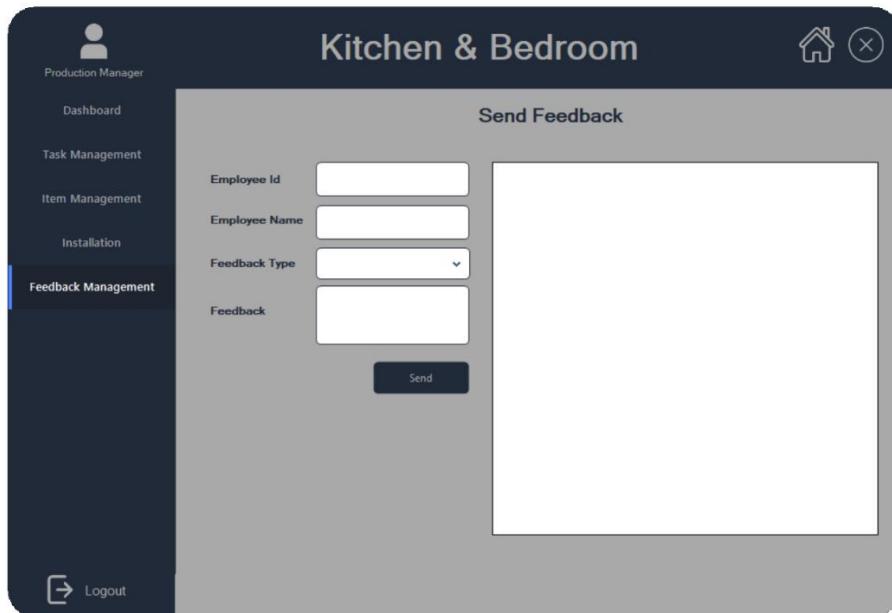
The interface is titled "Kitchen & Bedroom" at the top right. On the left, there's a sidebar with a user icon and the text "Production Manager". Below it are links: "Dashboard", "Task Management", "Item Management", "Installation" (which is highlighted with a blue vertical bar), and "Feedback Management". At the bottom of the sidebar is a "Logout" button. The main content area is titled "Installation Informations". It contains several input fields: "Project ID", "Project Name", "Order ID", "Installation Address", "Installation Date" (with a date picker showing "10/3/2024" and a dropdown arrow), "Installation Team", and "Installation Status". Below these are four buttons: "Add", "Update", "Remove", and "Clear". To the right of the input fields is a large, empty rectangular area.

Figure 268 : User Interface 85

Interface No: 86

Interface Name: Send Feedback Interface (Production Manager)

Description: Feedback management page for Production Manager



Kitchen & Bedroom

Send Feedback

Production Manager

Dashboard

Task Management

Item Management

Installation

Feedback Management

Logout

Employee Id: [Input Field]

Employee Name: [Input Field]

Feedback Type: [Dropdown]

Feedback: [Text Area]

Send

This interface is titled "Kitchen & Bedroom" and is specifically for "Production Manager". It features a sidebar with navigation links: Dashboard, Task Management, Item Management, Installation, and Feedback Management (which is currently selected). The main content area is titled "Send Feedback" and contains fields for Employee Id, Employee Name, Feedback Type (a dropdown menu), and a large text area for Feedback. A "Send" button is located at the bottom of the form.

Figure 269 : User Interface 86

Interface No: 87

Interface Name: Quantity Surveyor Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

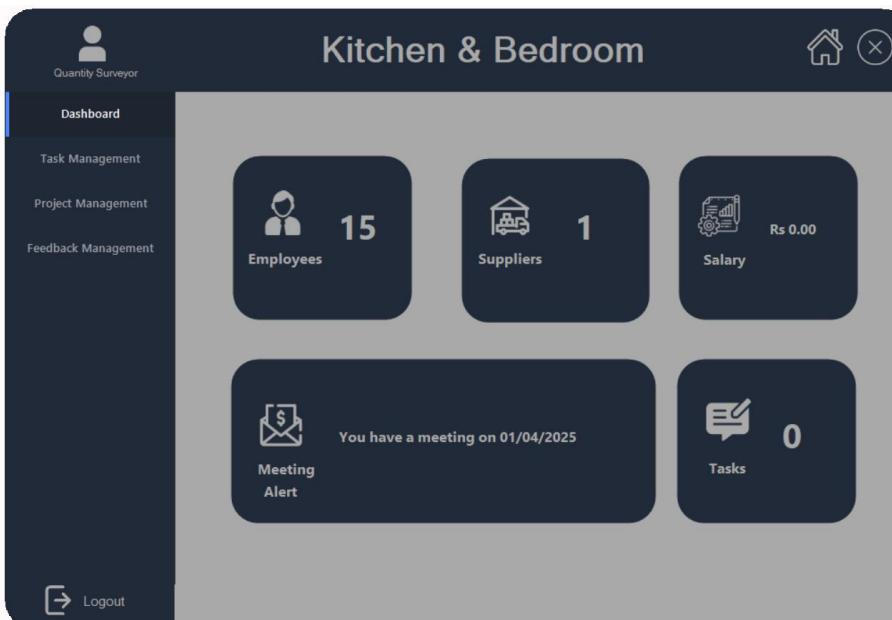


Figure 270 : User Interface 87

Interface No: 88

Interface Name: Quantity Surveyor Profile Interface

Description: View my profile page for Quantity Surveyor

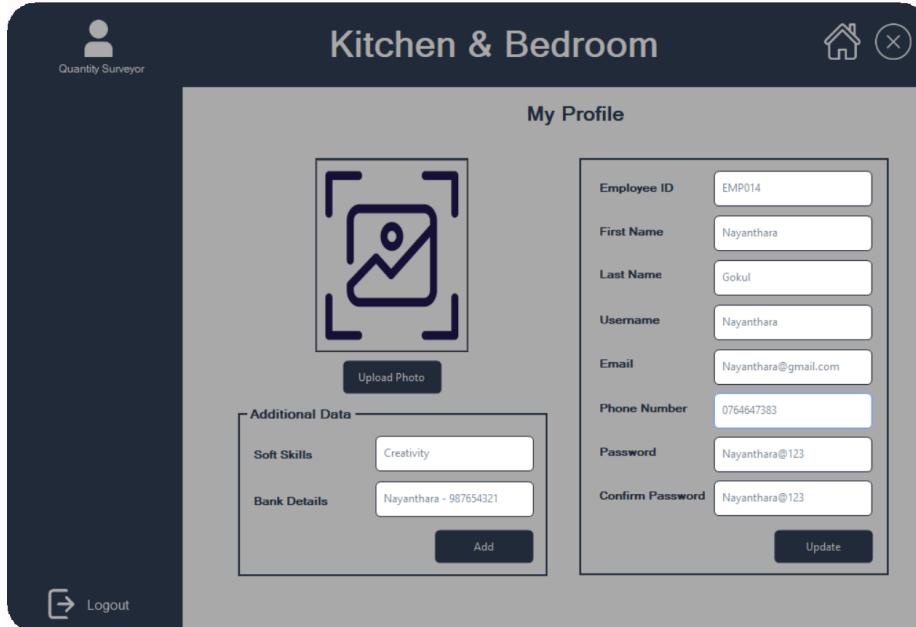


Figure 271 : User Interface 88

Interface No: 89

Interface Name: My Tasks Interface (Quantity Surveyor)

Description: Task management page for Quantity Surveyor

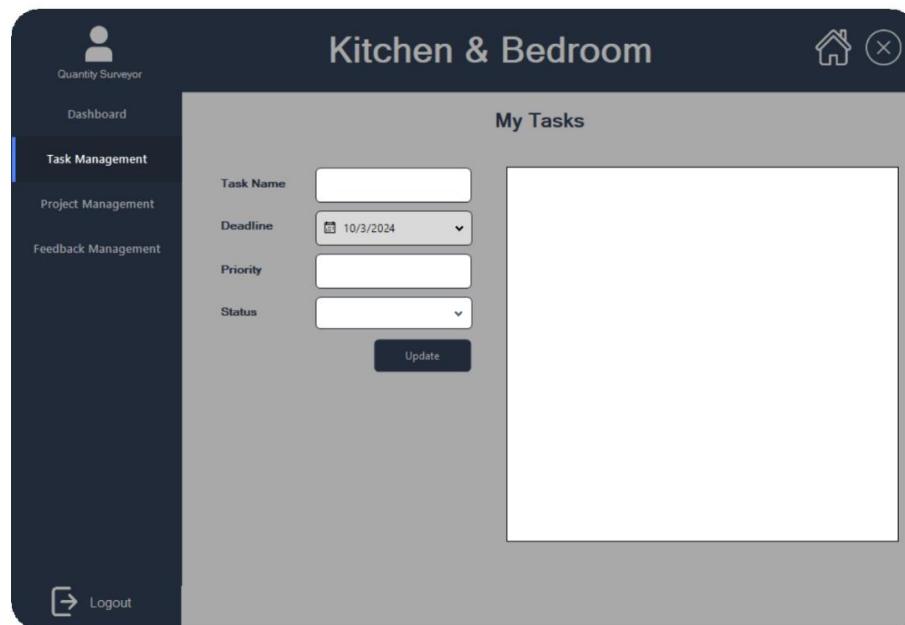


Figure 272 : User Interface 89

Interface No: 90

Interface Name: Calculate Project Cost Interface (Quantity Surveyor)

Description: Project management page for Quantity Surveyor

Kitchen & Bedroom

Calculate Project Cost

Task Name:

Project ID:

Project Name:

Client ID:

Material Cost:

Labour Cost:

Total Cost:

Add Update

Remove Clear

Figure 273 : User Interface 90

Interface No: 91

Interface Name: Send Feedback Interface (Quantity Surveyor)

Description: Feedback management page for Quantity Surveyor

Kitchen & Bedroom

Send Feedback

Employee Id:

Employee Name:

Feedback Type:

Feedback:

Send

Figure 274 : User Interface 91

Interface No: 92

Interface Name: Sales Executive Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

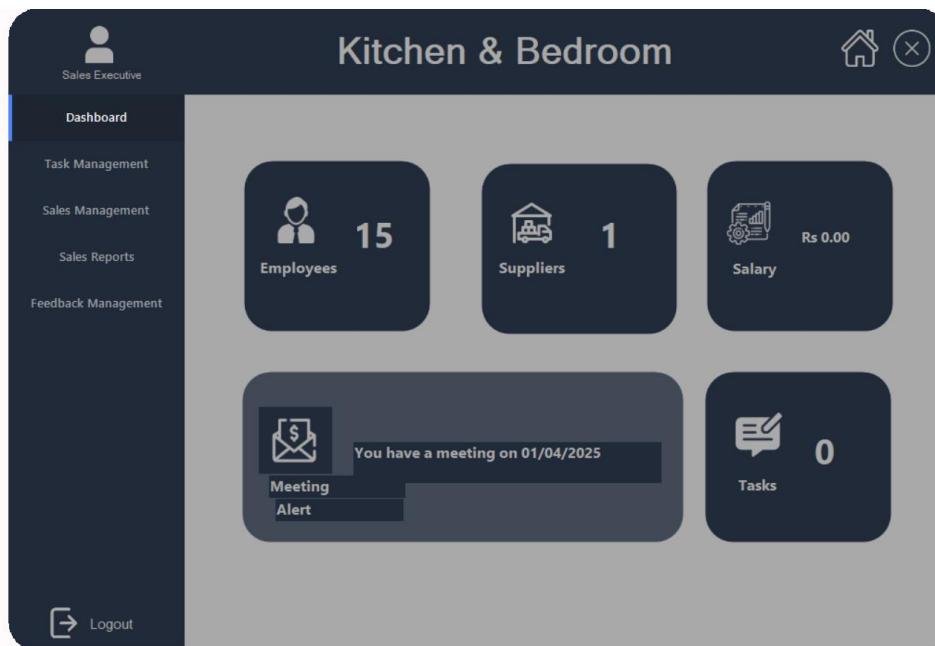


Figure 275 : User Interface 92

Interface No: 93

Interface Name: Sales Executive Profile Interface

Description: View my profile page for sales executive

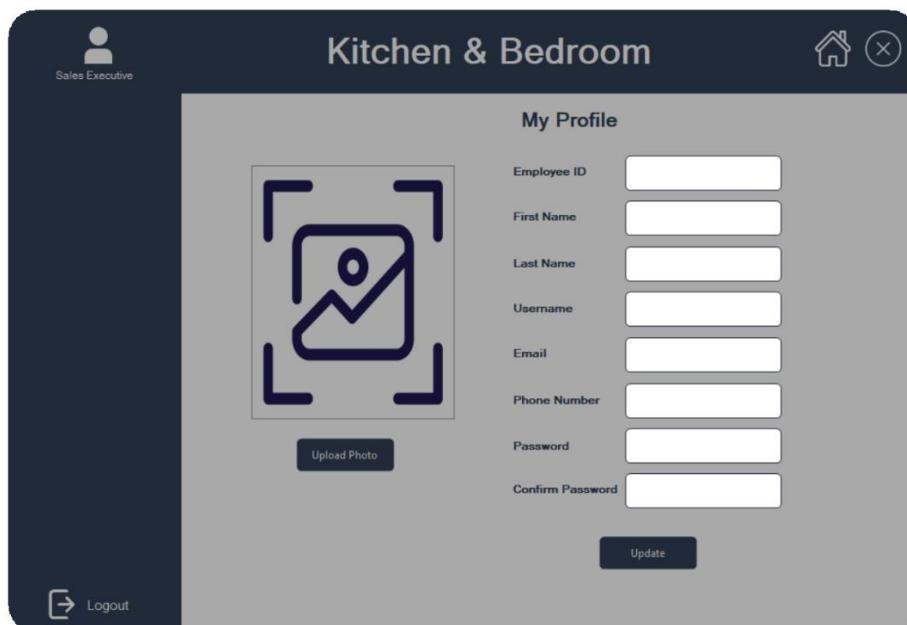


Figure 276 : User Interface 93

Interface No: 94

Interface Name: My Tasks Interface (Sales Executive)

Description: Task management page for Sales Executive

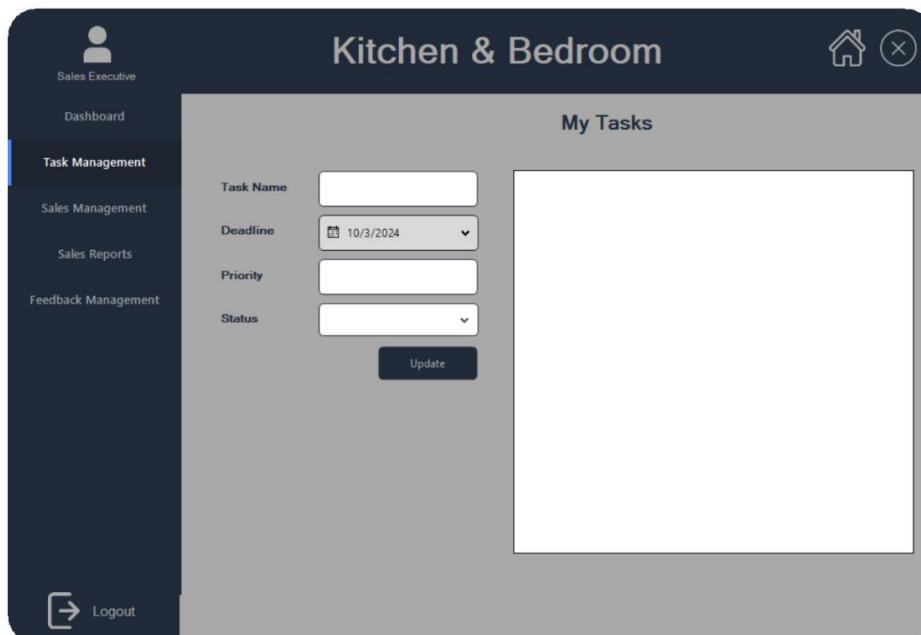


Figure 277 : User Interface 94

Interface No: 95

Interface Name: Sales Information's Interface (Sales Executive)

Description: Sales management page for Sales Executive

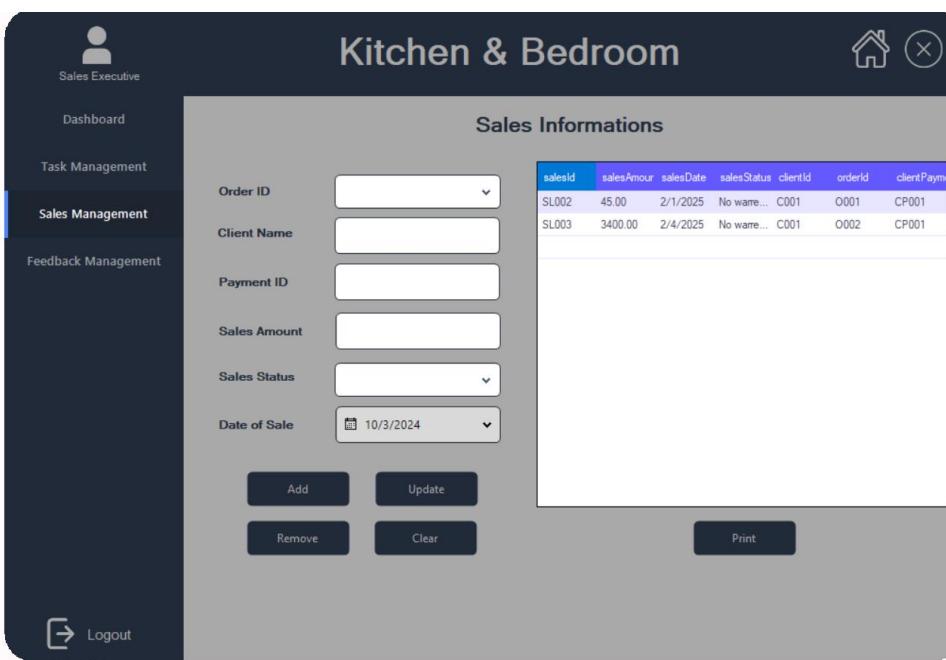


Figure 278 : User Interface 95

Interface No: 97

Interface Name: Send Feedback (Sales Executive)

Description: Feedback management page for Sales Executive

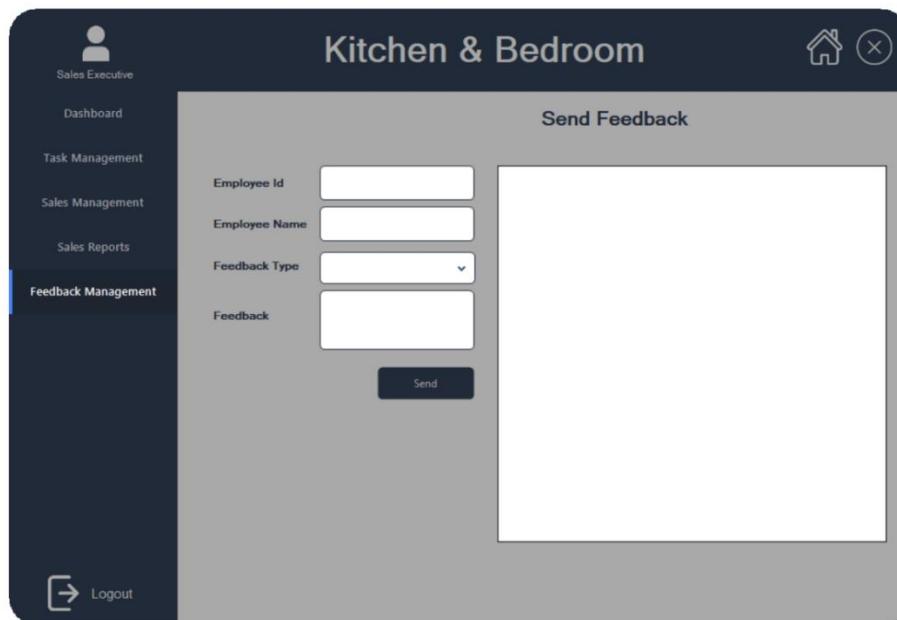


Figure 279 : User Interface 97

Interface No: 98

Interface Name: Storekeeper Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

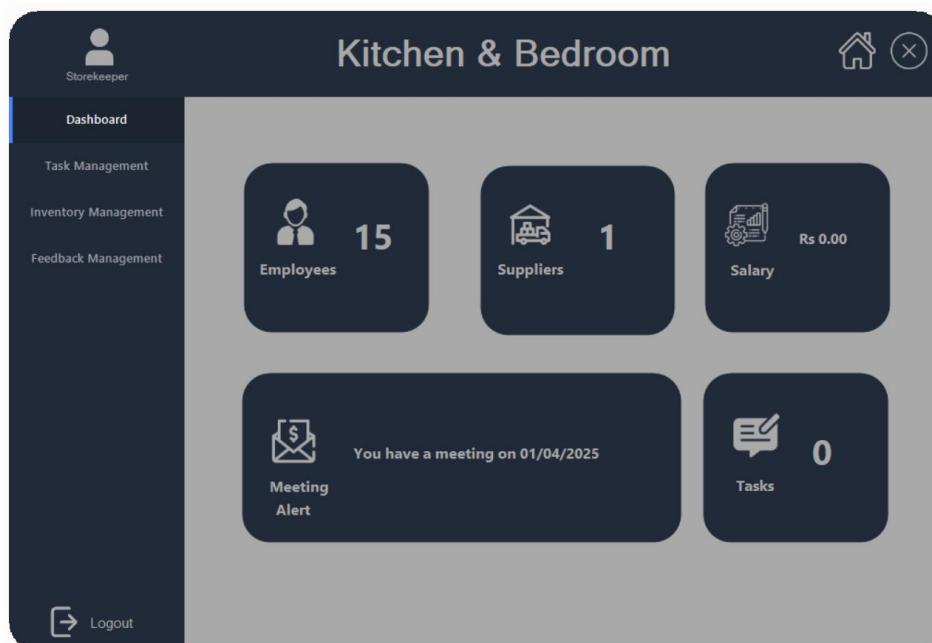


Figure 280 : User Interface 98

Interface No: 99

Interface Name: Storekeeper Profile Interface

Description: View profile page for Storekeeper

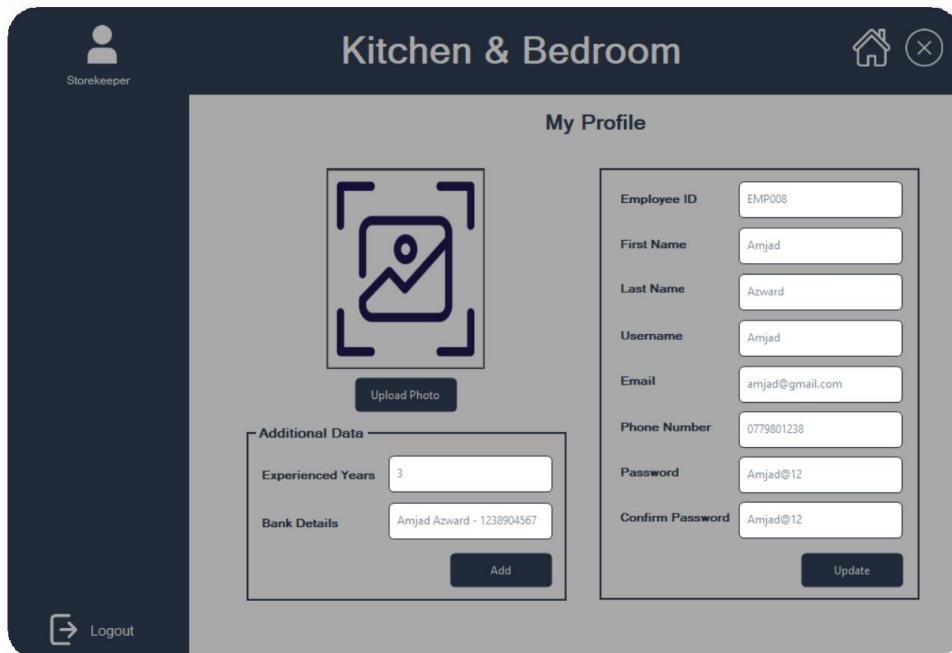


Figure 281 : User Interface 99

Interface No: 100

Interface Name: My Tasks Interface (Storekeeper)

Description: Task management page for Storekeeper

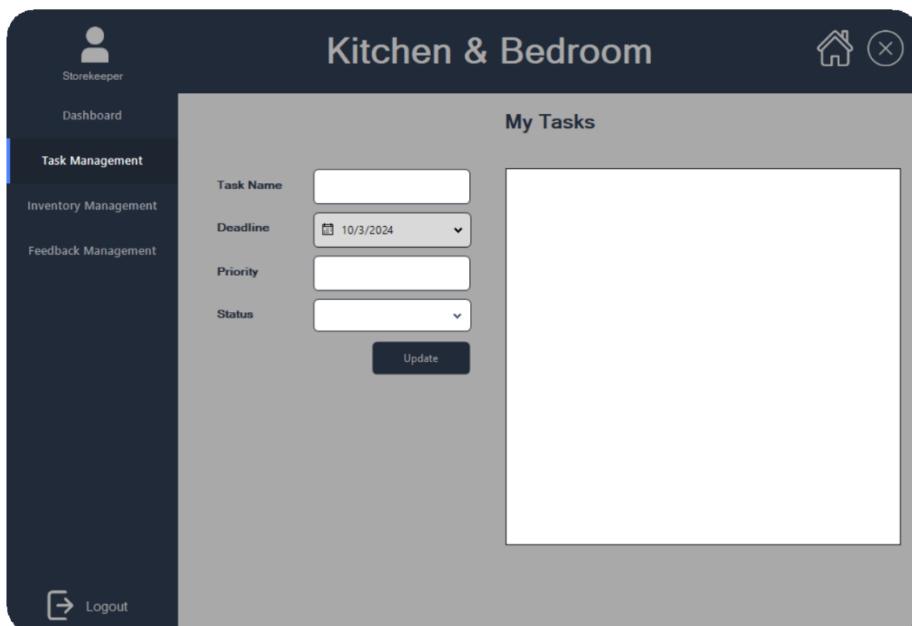
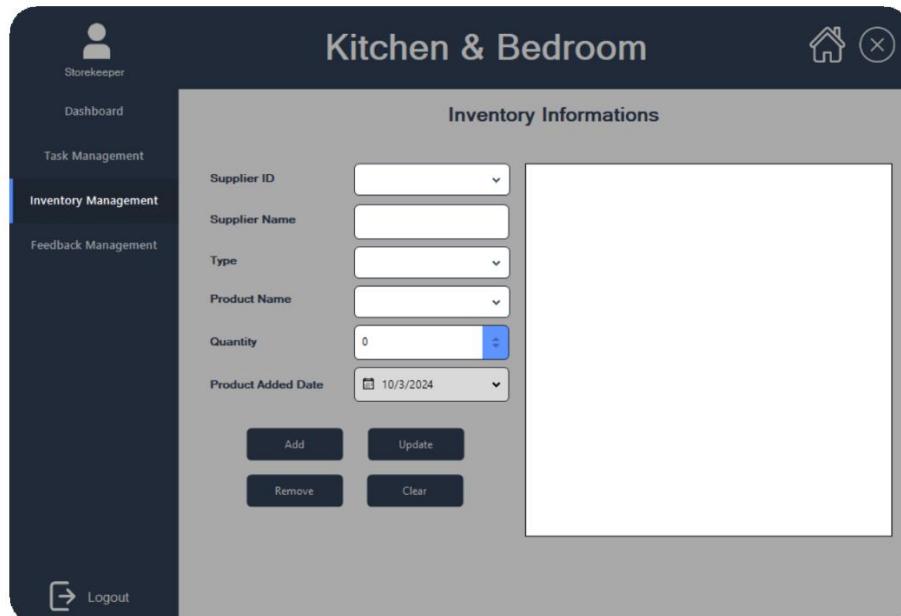


Figure 282 : User Interface 100

Interface No: 101

Interface Name: Inventory Information's Interface (Storekeeper)

Description: Inventory management page for Storekeeper



Kitchen & Bedroom

Inventory Informations

Supplier ID: [Input Field]

Supplier Name: [Input Field]

Type: [Input Field]

Product Name: [Input Field]

Quantity: [Input Field] 0

Product Added Date: [Input Field] 10/3/2024

Add Update Remove Clear

Logout

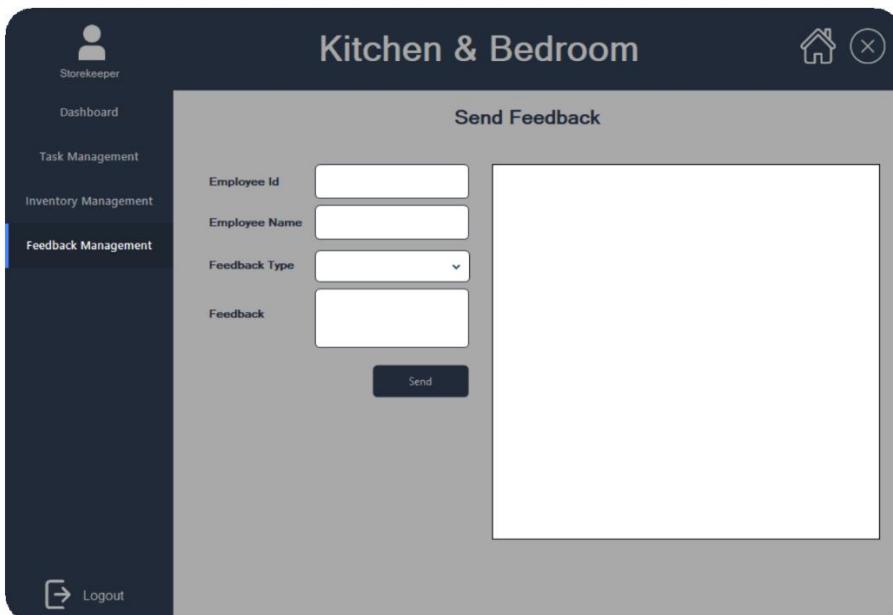
This screenshot shows the 'Inventory Management' section of the application. It includes fields for Supplier ID, Supplier Name, Type, Product Name, Quantity (with a plus-minus button), Product Added Date (with a date picker), and four action buttons: Add, Update, Remove, and Clear. The sidebar on the left lists 'Dashboard', 'Task Management', 'Inventory Management' (which is selected and highlighted in blue), and 'Feedback Management'. The top right features a home icon and a close (X) icon.

Figure 283 : User Interface 101

Interface No: 102

Interface Name: Send Feedback Interface (Storekeeper)

Description: Feedback management page for Storekeeper



Kitchen & Bedroom

Send Feedback

Employee Id: [Input Field]

Employee Name: [Input Field]

Feedback Type: [Input Field]

Feedback: [Input Field]

Send

Logout

This screenshot shows the 'Feedback Management' section of the application. It includes fields for Employee Id, Employee Name, Feedback Type, and a large text area for Feedback, followed by a 'Send' button. The sidebar on the left lists 'Dashboard', 'Task Management', 'Inventory Management', and 'Feedback Management' (which is selected and highlighted in blue). The top right features a home icon and a close (X) icon.

Figure 284 : User Interface 102

Interface No: 103

Interface Name: Team Leader Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

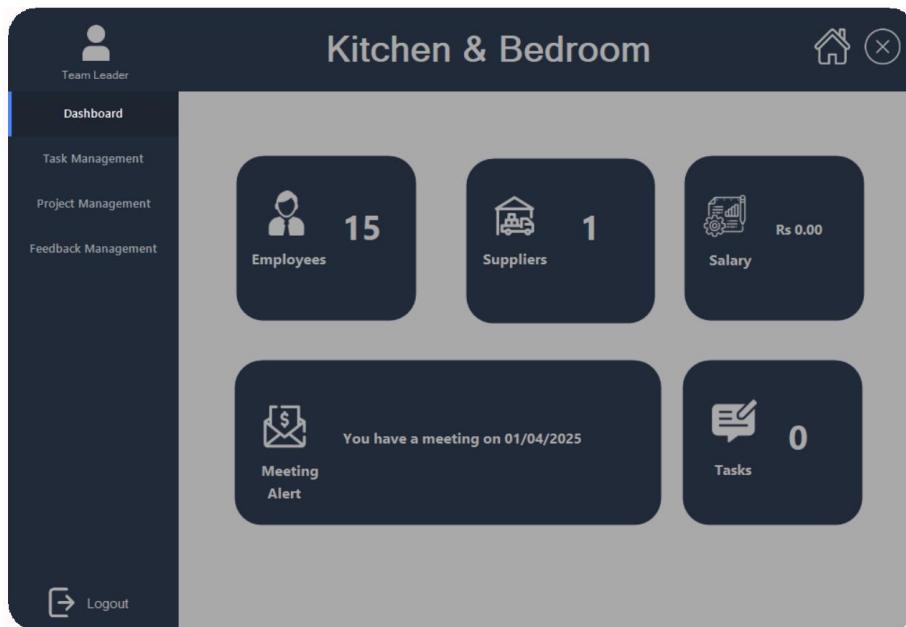


Figure 285 : User Interface 103

Interface No: 104

Interface Name: Team Leader Profile Interface

Description: View my profile page for Team Leader

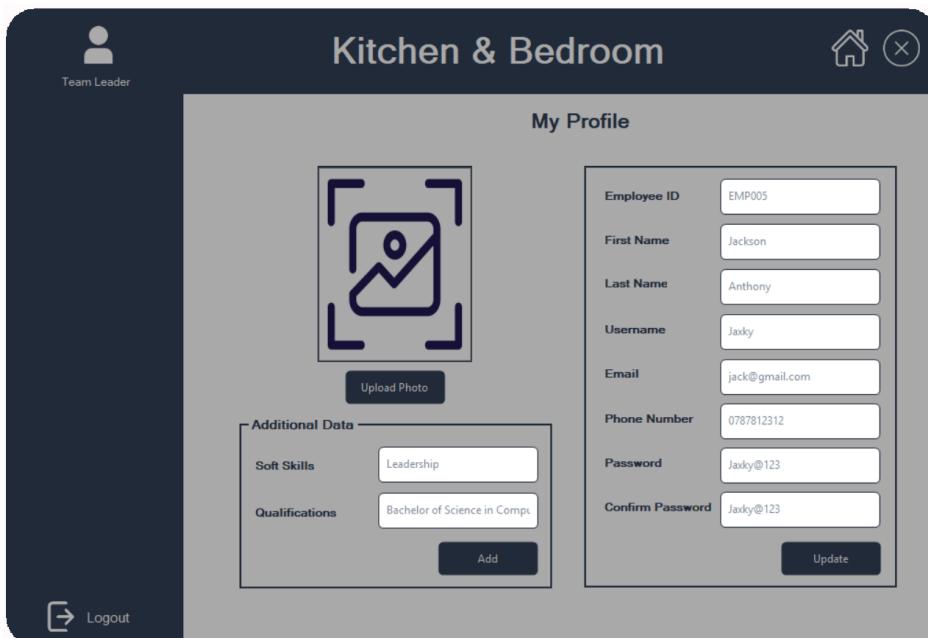


Figure 286 : User Interface 104

Interface No: 105

Interface Name: My Tasks Interface (Team Leader)

Description: Task management page for Team Leader

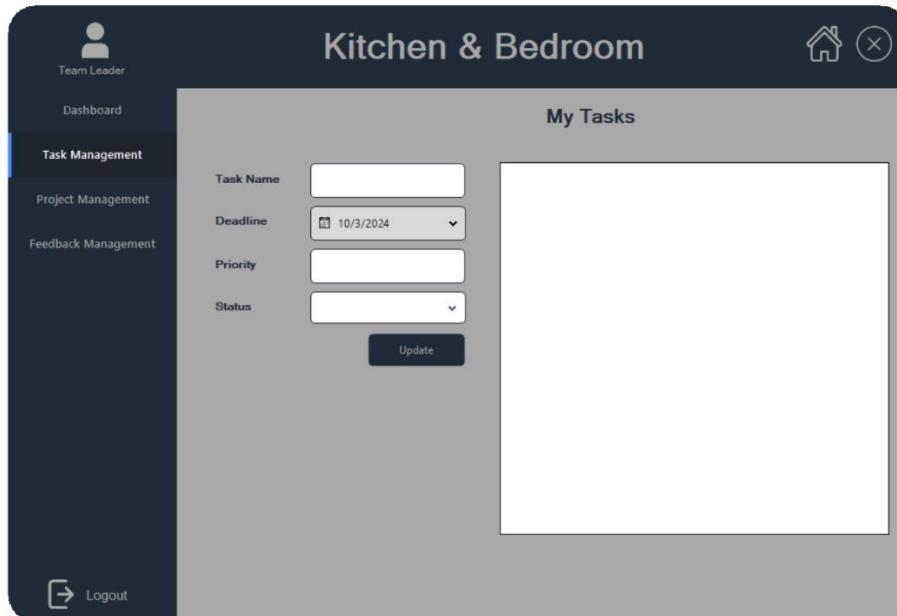


Figure 287 : User Interface 105

Interface No: 106

Interface Name: Project Information's Interface (Team Leader)

Description: Project management page for Team Leader

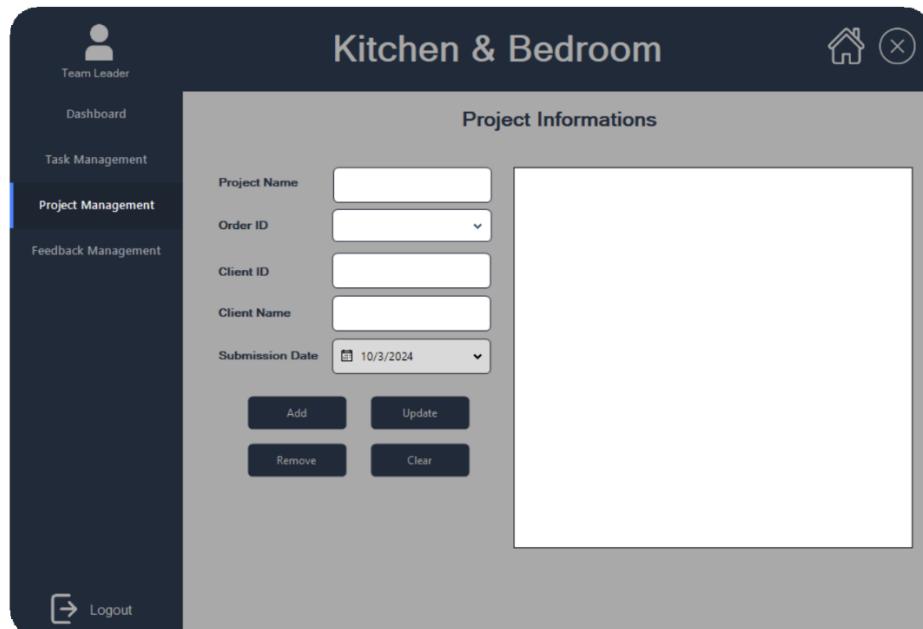


Figure 288 : User Interface 106

Interface No: 107

Interface Name: Send Feedback Interface (Team Leader)

Description: Task management page for Team Leader

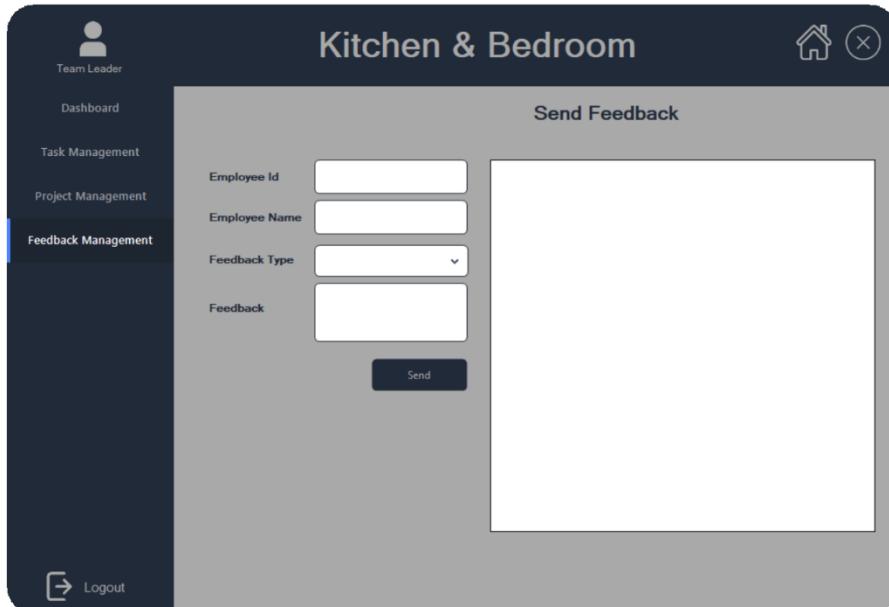


Figure 289 : User Interface 107

Interface No: 108

Interface Name: Technical Officer Dashboard Interface

Description : Dashboard with scheduled meetings and assigned tasks

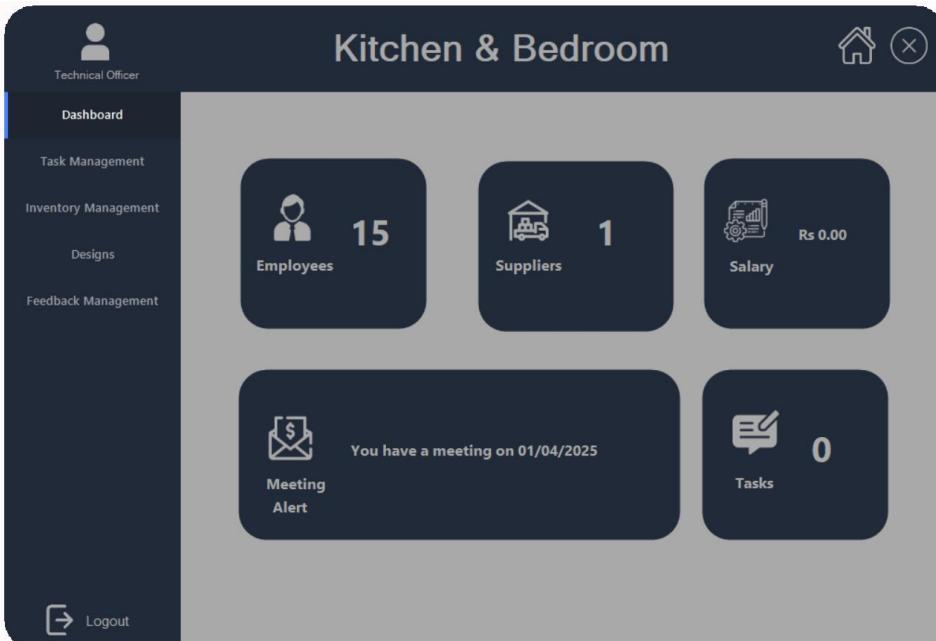


Figure 290 : User Interface 108

Interface No: 109

Interface Name: Technical Officer Profile Interface

Description: My profile page for Technical Officer

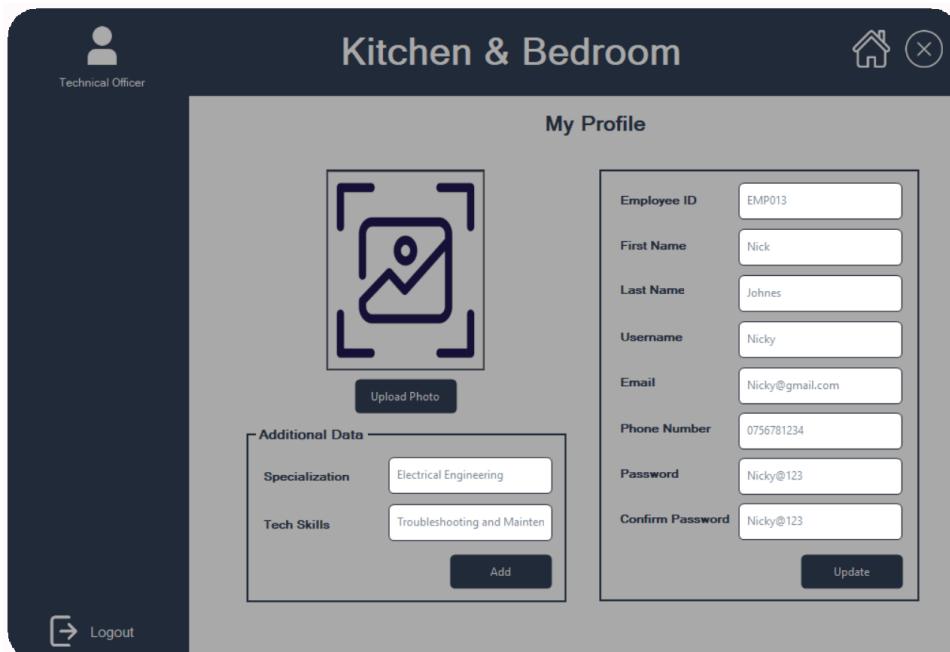


Figure 291 : User Interface 109

Interface No: 110

Interface Name: My Tasks Interface (Technical Officer)

Description: Task management page for Technical Officer

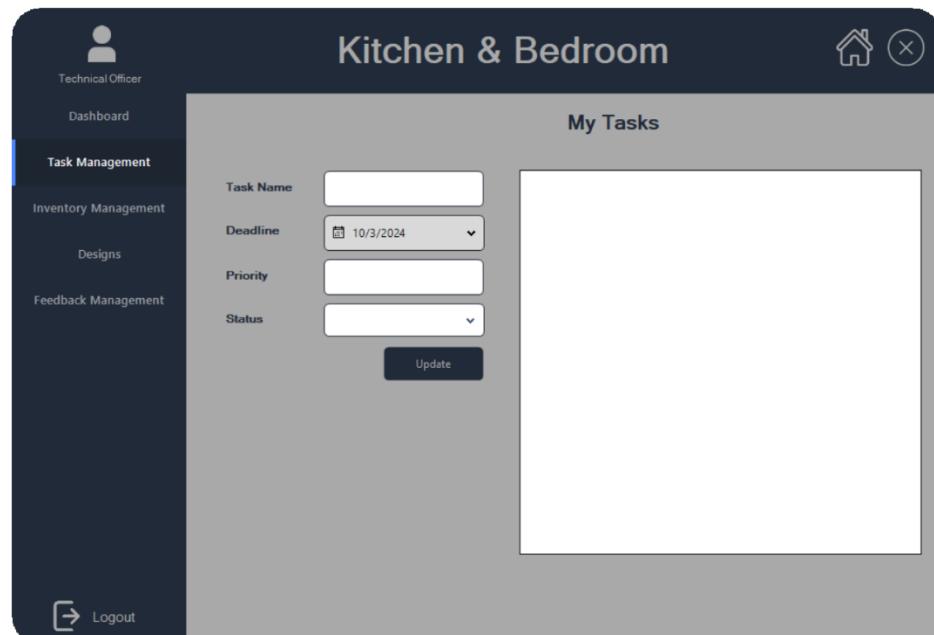


Figure 292 : User Interface 110

Interface No: 111

Interface Name: Inventory Management Interface (Technical Officer)

Description: Inventory management page for Technical Officer

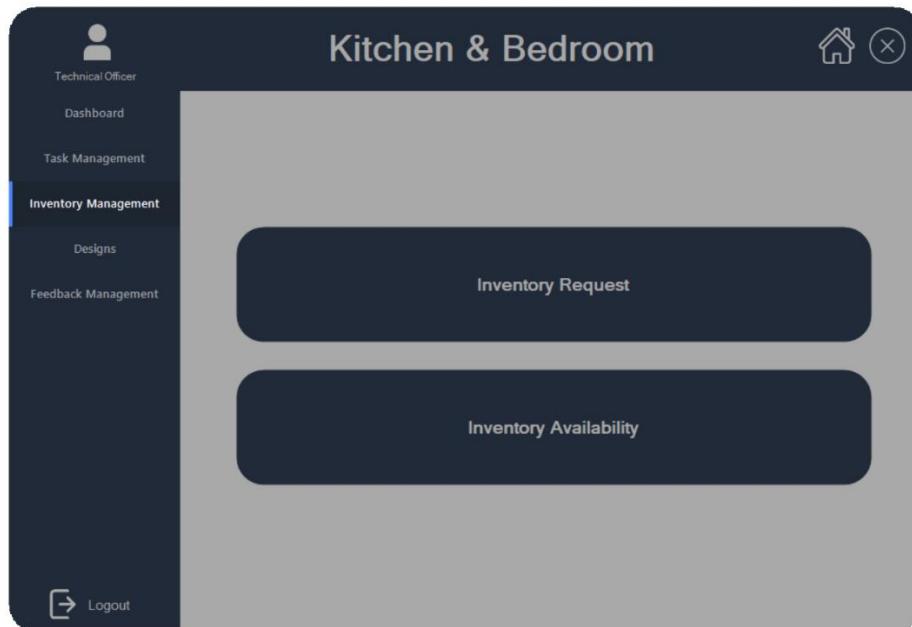


Figure 293 : User Interface 111

Interface No: 112

Interface Name: Inventory Request List Interface (Technical Officer)

Description: Inventory request management page for Technical Officer

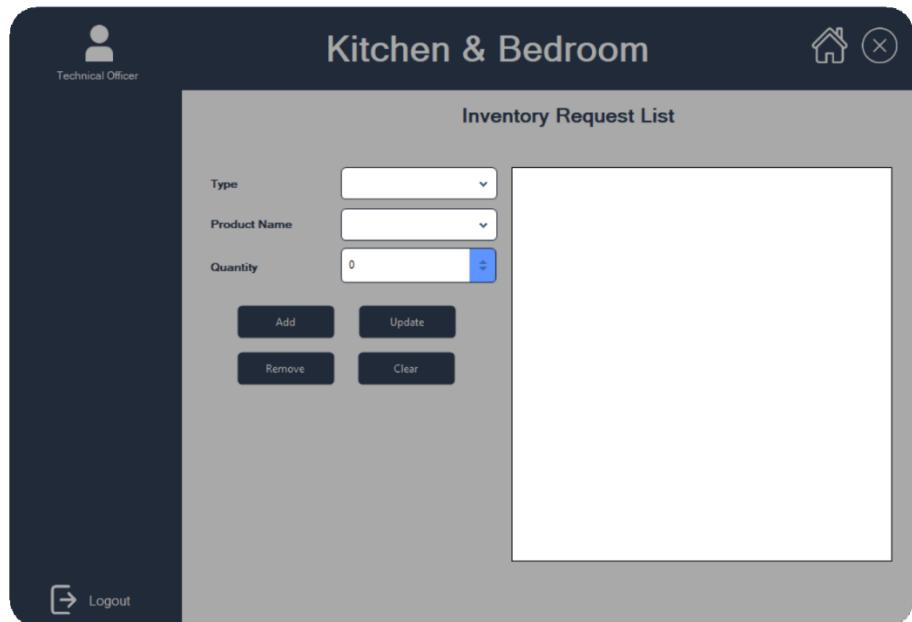
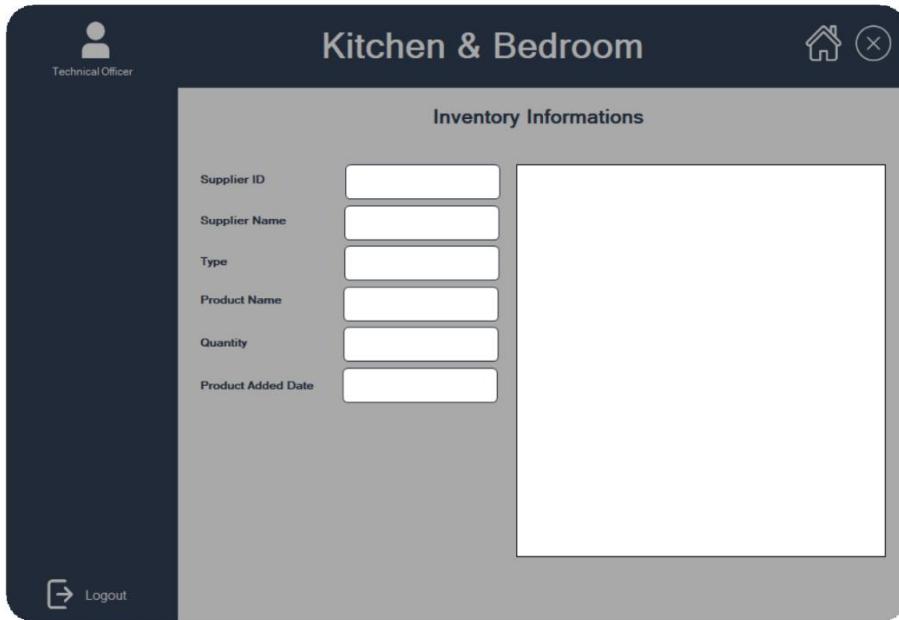


Figure 294 : User Interface 112

Interface No: 113

Interface Name: Inventory Information's Interface (Technical Officer)

Description: Inventory information page for Technical Officer



Kitchen & Bedroom

Inventory Informations

Supplier ID
Supplier Name
Type
Product Name
Quantity
Product Added Date

Logout

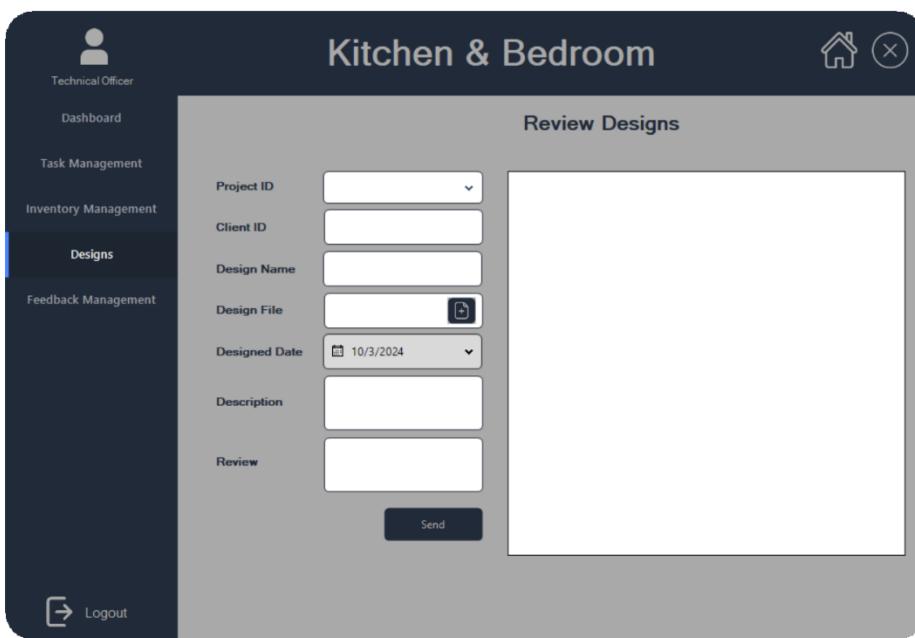
This user interface is titled 'Kitchen & Bedroom' at the top right. On the left, there is a sidebar with a user icon and the text 'Technical Officer'. Below the sidebar, there are several menu items: 'Dashboard', 'Task Management', 'Inventory Management', 'Designs' (which is highlighted with a blue underline), and 'Feedback Management'. At the bottom of the sidebar is a 'Logout' button. The main content area is titled 'Inventory Informations' and contains six input fields for supplier information: Supplier ID, Supplier Name, Type, Product Name, Quantity, and Product Added Date. To the right of these fields is a large, empty rectangular box.

Figure 295 : User Interface 113

Interface No: 114

Interface Name: Review Designs Interface (Technical Officer)

Description: Design management page for Technical Officer



Kitchen & Bedroom

Review Designs

Project ID
Client ID
Design Name
Design File
Designed Date
Description
Review

Send

Logout

This user interface is titled 'Kitchen & Bedroom' at the top right. On the left, there is a sidebar with a user icon and the text 'Technical Officer'. Below the sidebar, there are several menu items: 'Dashboard', 'Task Management', 'Inventory Management', 'Designs' (which is highlighted with a blue underline), and 'Feedback Management'. At the bottom of the sidebar is a 'Logout' button. The main content area is titled 'Review Designs' and contains seven input fields: Project ID, Client ID, Design Name, Design File (with a file upload icon), Designed Date (with a date picker showing '10/3/2024'), Description, and Review. A 'Send' button is located at the bottom of the form. To the right of the input fields is a large, empty rectangular box.

Figure 296 : User Interface 114

Interface No: 115

Interface Name: Send Feedback Interface (Technical Officer)

Description: Financial management page for Technical Officer

Kitchen & Bedroom

Send Feedback

Employee Id

Employee Name

Feedback Type

Feedback

Send

Logout

Figure 297 : User Interface 115

4.3 Database Design

Table Number: 01

Table Name: Employee

Primary Key: employeeId

Description: Employee related data are available here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Unique Employee ID
firstName	TEXT	50	First name of employee
lastName	TEXT	50	Last name of employee
userName	TEXT	50	Username for login
email	TEXT	50	Email address of employee
phoneNumber	NUMBER	-	Phone Number
password	TEXT	10	Password
position	TEXT	50	Position of the employee

Table 1 : Database design 01

Table Number: 02

Table Name: Task

Primary Key: taskId

Foreign Key: employeeId

Description: Information of tasks for employee and related data

Field Name	Data Type	Data Size	Description
taskId	TEXT	10	Unique task ID
taskName	TEXT	100	Assigned task
assignee	TEXT	10	Assigned employee
deadline	DATE	-	Deadline for task
status	TEXT	50	Task status
priority	TEXT	50	Priority of task
employeeId	TEXT	10	Task assigned employee Id referenced employee table

Table 2 : Database design 02

Table Number: 03

Table Name: Feedback

Primary Key: feedbackId

Foreign Key: employeeid

Description: Feedback and response are saved here

Field Name	Data Type	Data Size	Description
feedbackId	TEXT	10	Unique feedback ID
feedback	TEXT	250	Feedback sent
feedbackType	TEXT	50	Feedback type
response	TEXT	250	Response of the feedback
employeeId	TEXT	10	Task assigned employee Id referenced employee table

Table 3 : Database design 03

Table Number: 04

Table Name: EmployeeAttendance

Composite Primary Key: attendanceDate, employeeId

Foreign Key: employeeId

Description: Employee attendance information are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Unique employee id referenced from employee table
attendanceDate	DATE	-	Attendance marked date
attendanceStatus	TEXT	50	Full day, half day or absent

Table 4 : Database design 04

Table Number: 05

Table Name: Supplier

Primary Key: supplierId

Description: Supplier related data are saved here

Field Name	Data Type	Data Size	Description
supplierId	TEXT	10	Unique supplier ID
supplierName	TEXT	50	Name of the supplier
contactPerson	TEXT	50	Contact person of the supplier
supplierPhoneNo	NUMBER	-	Phone number of the supplier
supplierEmail	TEXT	50	Email address of the supplier

Table 5 : Database design 05

Table Number: 06

Table Name: Inventory

Primary Key: inventoryId

Foreign Key: supplierId

Description: Inventory information related data are saved here

Field Name	Data Type	Data Size	Description
inventoryId	TEXT	10	Unique inventory ID
supplierId	TEXT	10	Inventory supplied supplier Id referenced supplier table
inventoryType	TEXT	50	Type of the inventory
productName	TEXT	50	Name of the inventory type
productAddedDate	TEXT	-	Date of the added product
availableQty	TEXT	-	Available inventory count

Table 6 : Database design 06

Table Number: 07

Table Name: Design

Primary Key: designId

Foreign Key: projectId, clientId

Description: Design related data are saved here

Field Name	Data Type	Data Size	Description
designId	TEXT	10	Unique design ID
clientId	TEXT	10	Project related client Id referenced to client table
projectId	TEXT	10	Design related project Id referenced to project table
designName	TEXT	50	Name of the design
description	TEXT	100	Description of the design
designFile	TEXT	100	Design file
designedDate	DATE	-	Design file designed date
review	TEXT	255	Review for the design file

Table 7 : Database design 07

Table Number: 08

Table Name: Client

Primary Key: clientId

Description: Client related data are saved here

Field Name	Data Type	Data Size	Description
clientId	TEXT	10	Unique client ID
clientName	TEXT	50	Name of the client
clientPhoneNo	NUMBER	-	Phone number of the client
clientAddress	TEXT	100	Address of the client

Table 8 : Database design 08

Table Number: 09

Table Name: project

Primary Key: projectId

Foreign Key: clientId, orderId, designId, installationId, SalesId

Description: Project related data are saved here

Field Name	Data Type	Data Size	Description
projectId	TEXT	10	Unique project ID
clientId	TEXT	10	Project related client Id referenced to client table
orderId	TEXT	10	Project related order Id referenced to order table
designId	TEXT	10	Project related design Id referenced to design table
installationId	TEXT	10	Project related installation Id referenced to installation table
SalesId	TEXT	10	Project related sales Id referenced to sales table
projectName	TEXT	100	Name of the project
projectSubmissionDate	DATE	-	Submission date of project
projectLabourCost	NUMBER	-	Labour cost for the project
projectMaterialCost	NUMBER	-	Material cost for the project
projectTotalCost	NUMBER	-	Total estimated project cost

Table 9 : Database design 09

Table Number: 10

Table Name: Sales

Primary Key: salesId

Foreign Key: salesId, clientId, orderId, clientPaymentId

Description: Sales related data are saved here

Field Name	Data Type	Data Size	Description
salesId	TEXT	10	Unique sales ID
clientId	TEXT	10	Sales related client Id referenced to client table
orderId	TEXT	10	sales related order Id referenced to order table
clientPaymentId	TEXT	10	sales related client payment Id referenced to clientPayment table
salesAmount	NUMBER	-	Amount of the sales
salesDate	DATE	-	Date of sales added
salesStatus	TEXT	50	Status of the sales

Table 10 : Database design 10

Table Number: 11

Table Name: Meeting

Primary Key: meetingId

Foreign Key: employeeId

Description: Meeting related data are saved here

Field Name	Data Type	Data Size	Description
meetingId	TEXT	10	Unique meeting id
employeeId	TEXT	10	participant related employee Id referenced to employee table
meetingTitle	TEXT	100	Title of the meeting
meetingDate	DATE	-	Date of the meeting
meetingParticipants	TEXT	100	Participants of the meeting
meetingSummary	TEXT	250	Summary of the meeting

Table 11 : Database design 11

Table Number: 12

Table Name: Order

Primary Key: orderId

Foreign Key: clientId

Description: Order related data are saved here

Field Name	Data Type	Data Size	Description
orderId	TEXT	10	Unique order id
clientId	TEXT	10	Order related client Id referenced to client table
orderType	TEXT	50	Type of the order
orderDate	DATE	-	Date of the order
orderStatus	TEXT	50	Status of the order

Table 12 : Database design 12

Table Number: 13

Table Name: Tools

Primary Key: toolId

Foreign Key: ItemId, orderId

Description: Tool related data are saved here

Field Name	Data Type	Data Size	Description
toolId	TEXT	10	Unique tool id
orderId	TEXT	10	tool related order Id referenced to order table
ItemId	TEXT	10	tool related item Id referenced to item table
toolName	TEXT	50	Name of the tool
quantityNeeded	NUMBER	-	Needed quantity of tool
toolStatus	NUMBER	-	Status of the tool
lastMaintenanceDate	DATE	-	Last maintenance date of the tool

Table 13 : Database design 13

Table Number: 14

Table Name: Installation

Primary Key: installationId

Foreign Key: projectId, orderId, employeeId

Description: Installation related data are saved here

Field Name	Data Type	Data Size	Description
installationId	TEXT	10	Unique installation id
projectId	TEXT	10	installation related project Id referenced to project table
orderId	TEXT	10	installation related order Id referenced to order table
employeeId	TEXT	10	Team members related employee Id referenced to employee table
InstallationAddress	TEXT	100	Address of installation location
installationDate	DATE	-	Installation date
installationTeam	TEXT	100	Installation team members
installationStatus	TEXT	50	Status of installation

Table 14 : Database design 14

Table Number: 15

Table Name: Rawmaterials

Primary Key: rawmaterialId

Foreign Key: ItemId, orderId

Description: Raw material related data are saved here

Field Name	Data Type	Data Size	Description
rawmaterialId	TEXT	10	Unique raw material id
orderId	TEXT	10	Raw material related order Id referenced to order table
ItemId	TEXT	10	Raw material related item Id referenced to item table
rawmaterialName	TEXT	50	Name of the raw material
qunatityNeeded	NUMBER	-	Number of quantity needed
untiPrice	NUMBER	-	Unit price of the raw material

Table 15 : Database design 15

Table Number: 16

Table Name: Items

Primary Key: ItemId

Foreign Key: orderId, inventoryId, clientId, projectId

Description: Item related data are saved here

Field Name	Data Type	Data Size	Description
ItemId	TEXT	10	Unique item id
projectId	TEXT	10	Item related project Id referenced to project table
orderId	TEXT	10	Item related order Id referenced to order table
clientId	TEXT	10	Item related client Id referenced to client table
inventoryId	TEXT	10	Item related inventory Id referenced to inventory table
itemName	TEXT	50	Name of the item
NUMBER	NUMBER	-	Price of the item
itemQuantity	NUMBER	-	Quantity of items needed
totalPrice	NUMBER	-	Total price of the items
description	TEXT	100	Description of the item

Table 16 : Database design 16

Table Number: 17

Table Name: OrganizationalPayment

Primary Key: orgPaymentId

Description: Organizational Payment related data are saved here

Field Name	Data Type	Data Size	Description
orgPaymentId	TEXT	10	Unique organizational payment id
orgType	TEXT	50	Type of the organizational payment type
typeCost	NUMBER	-	Cost of the relevant organizational payment type
orgPaymentDate	DATE	-	Day of payment
orgBillPaymentStatus	TEXT	50	Status of organizational payment

Table 17 : Database design 17

Table Number: 18

Table Name: ClientPayments

Primary Key: clientPaymentId

Foreign Key: clientId, orderId

Description: Client Payment related data are saved here

Field Name	Data Type	Data Size	Description
clientPaymentId	TEXT	10	Unique client payment Id
clientId	TEXT	10	Client payment related client Id referenced to client table
orderId	TEXT	10	Client payment related order Id referenced to order table
projectCost	NUMBER	-	Cost for project
additionalCost	NUMBER	-	Additional cost
finalCost	TEXT	-	Final cost
clientPaymentDate	DATE	-	Day of client payment
clientPaymentStatus	TEXT	50	Payment status

Table 18 : Database design 18

Table Number: 19

Table Name: salaryPayments

Primary Key: salaryId

Foreign Key: employeeId

Description: Salary Payment related data are saved here

Field Name	Data Type	Data Size	Description
salaryId	TEXT	10	Unique salary Id
employeeId	TEXT	10	salary payment related employee Id referenced to employee table
basicSalary	NUMBER	-	Basic salary of employee
availableLeaveCount	NUMBER	-	Left leave count
bonus	NUMBER	-	Bonus amount
deduction	NUMBER	-	Salary deduction amount
finalAmount	NUMBER	-	Final salary amount
salaryPaymentStatus	TEXT	50	Status of salary payment

Table 19 : Database design 19

Table Number: 20

Table Name: CEO

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for CEO are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	CEO related employee Id referenced to employee table
educationalqualifications	TEXT	255	Qualification in education of CEO
revenueTarget	NUMBER	-	Revenue target of company

Table 20 : Database design 20

Table Number: 21

Table Name: Storekeeper

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for storekeeper are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Storekeeper related employee Id referenced to employee table
experiencedYears	NUMBER	-	The number of experience years
bankDetails	TEXT	255	Bank account details of storekeeper

Table 21 : Database design 21

Table Number: 22

Table Name: FactoryManager

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Factory manager are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Factory Manager related employee Id referenced to employee table
experiencedYears	NUMBER	-	The number of experience years
softSkills	TEXT	255	List of soft skills of factory manager

Table 22 : Database design 22

Table Number: 23

Table Name: TechnicalOfficer

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Technical Officer are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Technical Officer related employee Id referenced to employee table
specialization	TEXT	255	The technical officer's specific area of expertise
techSkills	TEXT	255	List of tech skills of technical officer

Table 23 : Database design 23

Table Number: 24

Table Name: Designer

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Designer are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Designer related employee Id referenced to employee table
earlierProjectLinks	TEXT	255	Reference to projects the design worked
softwareUsed	TEXT	30	Software tool used to design

Table 24 : Database design 24

Table Number: 25

Table Name: COO

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for COO are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	COO related employee Id referenced to employee table
communcationChannels	TEXT	100	Communication methods used by COO
vision	TEXT	255	The vison or goal of COO

Table 25 : Database design 25

Table Number: 26

Table Name: SalesExecutive

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Sales Executive are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Sales Executive related employee Id referenced to employee table
preferredLanguage	TEXT	100	Preferred language for communication
experiencedYears	NUMBER	-	Professional experience years of Sales Executive

Table 26 : Database design 27

Table Number: 27

Table Name: Secretary

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Secretary are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Secretary related employee Id referenced to employee table
typingSpeed	NUMBER	-	Typing speed of employee
knownLanguages	TEXT	255	The languages known by secretary

Table 27 : Database design 27

Table Number: 28

Table Name: TeamLeader

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Team Leader are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Team Leader related employee Id referenced to employee table
softSkills	TEXT	255	Team Leader's Interpersonal skills
educationalQualifications	TEXT	255	Academic qualifications of Team Leader

Table 28 : Database design 28

Table Number: 29

Table Name: QuantitySurveyor

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Quantity Surveyor are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Quantity Surveyor related employee Id referenced to employee table
softSkills	TEXT	255	Quantity Surveyor's Interpersonal skills
bankDetails	TEXT	255	Bank account details of Quantity Surveyor

Table 29 : Database design 29

Table Number: 30

Table Name: Accountant

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Accountant are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Accountant related employee Id referenced to employee table
earlyJobTitles	TEXT	255	Previous job titles of Accountant
bankDetails	TEXT	255	Bank account details of Accountant

Table 30 : Database design 30

Table Number: 31

Table Name: AssistantAccountant

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Assistant Accountant are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Assistant Accountant related employee Id referenced to employee table
earlyJobTitles	TEXT	255	Previous job titles of Assistant Accountant
bankDetails	TEXT	255	Bank account details of Assistant Accountant

Table 31 : Database design 31

Table Number: 32

Table Name: ProductionManager

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Production manager are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Production Manager related employee Id referenced to employee table
earlyJobTitles	TEXT	255	Previous job titles of Production Manager
vision	TEXT	255	The vision or goal of Production Manager

Table 32 : Database design 32

Table Number: 33

Table Name: Administration

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Administration are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Administration related employee Id referenced to employee table
earlyJobTitles	TEXT	255	Previous job titles of Administration
softSkills	TEXT	255	Quantity Surveyor's Interpersonal skills

Table 33 : Database design 33

Table Number: 34

Table Name: CustomerRelation

Primary Key: employeeId

Foreign Key: employeeId

Description: Unique data for Customer Relations are saved here

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Customer Relation related employee Id referenced to employee table
preferredLanguage	TEXT	100	Preferred language for communication
softSkills	TEXT	255	Quantity Surveyor's Interpersonal skills

Table 34 : Database design 34

Table Number: 35

Table Name: shortage

Primary Key:

Foreign Key:

Description:

Field Name	Data Type	Data Size	Description
employeeId	TEXT	10	Customer Relation related employee Id referenced to employee table
preferredLanguage	TEXT	100	Preferred language for communication
softSkills	TEXT	255	Quantity Surveyor's Interpersonal skills

Table 35 : Database design 35

4.4 Report Layout Design

Report Layout Number: 01

Report Layout Name: Financial Report

Description: Daily, monthly, weekly reports are created



Report No : 05

Report Name : Monthly Financial Report (11/01/2024 - 11/31/2024)

Date : 11/14/2024

Organizational Payments				
Payment ID	Payment Type	Cost	Payment Date	Payment Status
OP01	Electricity Bill	90000	11/14/2024	Completed
Total		90000		

Client Payments							
Payment ID	Client ID	Order ID	Project Cost	Additional Cost	Final Cost	Payment Date	Payment Status
CP01	C002	0001	148000	0	148000	11/10/2024	Completed
Total					148000		



Address
No 126 Park Rd, Colombo 05



Email
info@kandb.lk



Website
www.kandb.lk

Figure 298 : Report 1.1



Report No : 05

Report Name : Monthly Financial Report (11/01/2024 - 11/31/2024)

Date : Report 11/14/2024

Salary Payments								
Payment ID	Employee ID	Basic Salary	Available Leave	Bonus	Deduction	Final Amount	Payment Date	Payment Status
SP01	EMP003	25000	05	5000	0	30000	11/10/2024	Completed
Total						30000		



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Website
www.kandb.lk

Figure 299 : Report 1.2



Report No : 05
Report Name : Monthly Financial Report (11/01/2024 - 11/31/2024)
Date : Report 11/14/2024

Summary

Total Client Payments	148000
Total Salary Payments	30000
Total Organizational Payments	90000
Profit / Loss	28000

Sincerely,

.....
Dr.Naufal Noordeen
Cheif Operation Officer
Kitchen and Bedroom (Pvt) Ltd



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info@kandb.lk



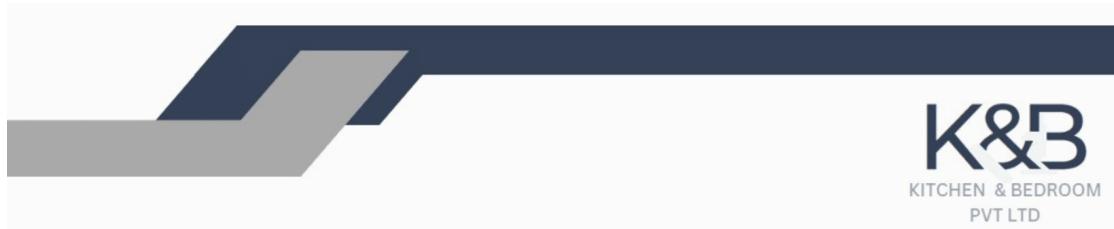
Website
www.kandb.lk

Figure 300 : Report 1.3

Report Layout Number: 02

Report Layout Name: Inventory Report

Description: Daily, monthly, weekly reports are created



Report No : 04

Report Name : Monthly Inventory Report (11/01/2024 - 11/31/2024)

Date : 11/31/2024

Inventory ID	Supplier ID	Inventory Type	Product Name	Product Added Date	Available Qty
INV001	S001	Raw Materials	Solid Wood	11/03/2024	100
INV002	S001	Tools	Power Drill	11/15/2024	11
INV003	S002	Raw Materials	Water Resistant Paint	11/21/2024	50

Sincerely,

.....
Dr.Naufal Noordeen
Cheif Operation Officer
Kitchen and Bedroom (Pvt) Ltd

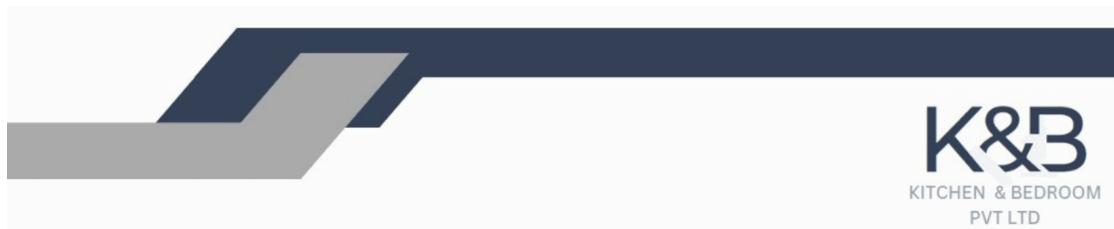


Figure 301 : Report 2

Report Layout Number: 03

Report Layout Name: Sales Report

Description: Daily, monthly, weekly reports are created



Report No : 03

Report Name : Monthly Sales Report (11/01/2024 - 11/31/2024)

Date : 11/13/2024

Sales ID	Client ID	Order ID	Payment ID	Sales Amount	Sales Date	Sales Status
SL001	C001	0001	CP01	148000	11/15/2024	In Warranty
SL002	C002	0002	CP02	200000	11/09/2024	In Warranty
SL003	C003	0003	CP03	165000	11/05/2024	In Warranty

Sincerely,

.....
Dr.Naufal Noordeen
Cheif Operation Officer
Kitchen and Bedroom (Pvt) Ltd



Figure 302 : Report 3

Report Layout Number: 04

Report Layout Name: Meeting Report

Description: Report for relevant meeting is generated



Report No : 02

Report Name : Meeting Report

Date : 11/14/2024

Meeting Id	Title	Date	Participants	Summary
M001	Project Progress Review	11/14/2024	Naufel Noordeen Zavinya Dain Aflah Mubarak	Reviewed progress and outlined next steps

Sincerely,

.....
Dr.Naufal Noordeen
Cheif Operation Officer
Kitchen and Bedroom (Pvt) Ltd



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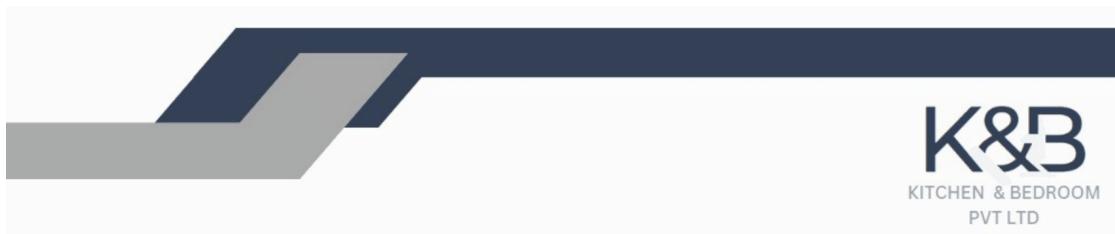
Website
www.kandb.lk

Figure 303 : Report 4

Report Layout Number: 05

Report Layout Name: Project Report

Description: Report for relevant project is generated



Report No : 01

Report Name : Project Report

Date : 11/13/2024

Project Id	P001
Project Name	Pantry Cupboard for Asian Apartments
Client Id	C003
Order Id	O002
Project Submission Date	11/07/2024
Project Labour Cost	28000
Project Material Cost	120000
Project Total Cost	148000

Sincerely,

.....
Dr.Naufal Noordeen
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Figure 304 : Report 5

4.5 Chapter Summary

As The chapter explains the implementation process by user interfaces, table design and report layouts, the basic idea of the system appearance and how it works is clearly mentioned. The collection of these subcategories emphasizes the step by step reference to implemented process.

Conclusion

According to the proposed project, one can say that the proposed system enhances the overall functionality of the business by addressing the most common problems faced by the organization. As the time management and traditional manual management process drained the profit of the business, the business management system reduces the loss compared to traditional system. Efficient way of data storage in a database, easy access, secured method are some of the major advantages gained with desktop application.

Even though the system has multiple advantages it also has some weaknesses too. Limited accessibility, hardware dependency, challenges in maintenance, implementation cost, data backup and recovery options, and security risks are some of them.

As future improvements for this the desktop application has planned to implement by addressing above weaknesses and limitations with the aid of Artificial Intelligence for a better user experience.

References (APA latest)

(Mobile App Development Using Agile and Kanban Methodologies – Dimitris Souris LinkedIn) <https://www.linkedin.com/pulse/mobile-app-development-using-agilekanban-dimitris-souris-rg1tf/>

(Javatpoint.com) <https://www.javatpoint.com/software-testing-tutorial>

(geeksforgeeks) <https://www.geeksforgeeks.org/requirements-gathering-introductionprocesses-benefits-and-tools/#requirement-gathering-techniques>

Appendices

Company approval letter

KITCHEN & BEDROOM (PRIVATE) LIMITED
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Director,
School of Computing & Engineering,
National Institute of Business Management,
Colombo 07.
13th of September 2024.

Dear Sir,
Approval to Develop a System for Our Company

I am delighted to inform you that we have formally approved the initiative for the students from the National Institute of Business Management (NIBM) to develop a customized system for our company. We greatly value their enthusiasm and the opportunity to collaborate with them on this project.

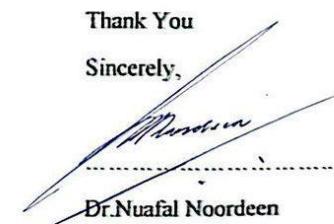
The students will be working on developing a system tailored to our specific business needs what we provide them, and we agree to provide relevant documents and data to carry out their project successfully. Below are the details of the students who will be participating in this project:

1. Mr. M.A. Azward
2. Ms. M.H.E. Ilma

We look forward to a productive collaboration and are eager to see the outcomes of their work. If have any queries regarding this project, please feel free to contact us at info@kandb.lk or 0711909090 for any kind of inquiries

Thank You

Sincerely,


Dr.Nuafal Noordeen

Chief Operation Officer

Kitchen And Bedroom (Pvt) Ltd

Meeting minutes – 01

Date – 03 rd September 2024	Time – 10.00 AM - 12.30 PM
Purpose of the Meeting	Identifying the organizational Structure and functionalities
Location	“Kitchen & Bedroom (Private) Limited” Company premises

Attendees	
Students	Azwad M A (Codse233f-075) Ilma M H F (Codse233f-177)
Organization Members	Mr. Aflah Mubarak (Secretary) Mrs. Zaviniya Dain (Administration) Mr. Felix Priyantha Wickraman (Production Manager)

Agenda	
Time	
10.00 AM - 11.20 AM	Gather information on current process
11.20 AM - 12.30 PM	Identifying and explaining the functionality of each acting roles

Gathered Information/ Key points discussed
<p>Company evolution and introduction was given</p> <p>Current process operation of the organization is explained</p> <p>Acting roles are identified (CEO, COO, accountant, designer, technical Manager, team leader, storekeeper, production manager, customer, customer relations, sales executive, quantity surveyor, factory manager, assistant accountant, administrator, secretary, supplier)</p> <p>Functionality of each acting roles are described</p>

Action items assigned/ Decisions made

Functional and non-functional requirements of the proposed system is identified

Next meeting Date - 12th September 2024

Meeting minutes – 02

Date – 12 th September 2024	Time – 03.00 PM - 04.00 PM
Purpose of the Meeting	Identifying the process of internal operations the organization
Location	Online (Zoom meeting)

Attendees	
Students	Azwad M A (Codse233f-075) Ilma M H F (Codse233f-177)
Organization Members	Mr. Aflah Mubarak (Secretary) Mrs. Zaviniya Dain (Administration)

Agenda	
Time	
03.00 PM - 04.00 PM	Gather information on internal management process

Gathered Information/ Key points discussed
<p>Gathered information about current operations in,</p> <ul style="list-style-type: none"> • Staff management • Client management • Project management • Inventory management • Production and factory management • Financial and sales report management • Supplier management system • Human resource management system

Action items assigned/ Decisions made

Decided to automate the operations through a system

Next meeting Date - 14th September 2024

Meeting minutes – 03

Date – 14 th September 2024	Time – 02.00 PM - 04.00 PM
Purpose of the Meeting	Identifying the current problems faced by the organization
Location	Online (Zoom meeting)

Attendees	
Students	Azwad M A (Codse233f-075) Ilma M H F (Codse233f-177)
Organization Members	Mr. Aflah Mubarak (Secretary)

Agenda	
Time	
02.00 PM - 03.00 PM	The current problems regarding the internal operations
03.00 PM - 04.00 PM	The current problems regarding the operations externally done to company premises

Gathered Information/ Key points discussed

Issues in service delays - Improper communication and management causes

Issues in staff management - Manual operations take more time

Scalability issues - Handling large number of clients in a short period of time

Security concerns

Documentation management issues

Calculation issues

Inventory issues

Action items assigned/ Decisions made

Implementing following system to the proposed “Business management System”

- Staff management system
- Client management system
- Project management system
- Inventory management system
- Production and factory management system
- Financial and sales report management system
- Supplier management system
- Human resource management system
- Feedback control system

Next meeting Date - 20th September 2024

Meeting minutes – 04

Date – 20 th September 2024	Time – 10.00 AM - 11.30 AM
Purpose of the Meeting	Finalizing requirement gathering and get the feedback for the project plan
Location	“Kitchen & Bedroom (Private) Limited” Company premises

Attendees	
Students	Azwad M A (Codse233f-075)
Organization Members	Mr. Aflah Mubarak (Secretary) Mrs. Zaviniya Dain (Administration)

Agenda	
Time	
10.00 AM - 10.45 AM	Gather information on unclear operations and company requested additional features
10.45 AM - 11.30 AM	Explaining the project plan

Gathered Information/ Key points discussed
<p>The Company needed to generate reports on selected gathered information.</p> <p>Positive feedback received for the project plan and asked for certain adjustments</p>

Action items assigned/ Decisions made

“Creating and viewing report” functionality is added to the system

Agile methodology is decided to use when implementing the system
according to client requirements

Next meeting Date - 02nd November 2024

Meeting minutes – 05

Date – 02 nd November 2024	Time – 11.30 AM - 02.00 PM
Purpose of the Meeting	Show the UML diagrams and get a clear idea of major changes what organization expect in the system
Location	“Kitchen & Bedroom (Private) Limited” Company premises

Attendees	
Students	Azwad M A (Codse233f-075) Ilma M H F (Codse233f-177)
Organization Members	Mr. Aflah Mubarak (Secretary) Mrs. Zaviniya Dain (Administration)

Agenda	
Time	
11.30 AM - 01.20 PM	Explain UML diagrams
01.20 PM - 02.00 PM	Get relevant comments on UML diagrams

Gathered Information/ Key points discussed
<p>Planned to change the ordering and inventory functionality based on their requirement</p> <p>Added few tasks for selected acting roles</p>

Action items assigned/ Decisions made

Editing the UML with further changes

Next meeting Date - 09th November 2024

Meeting minutes – 06

Date – 09th November 2024	Time – 12.30 PM - 02.00 PM
Purpose of the Meeting	Show case the User interfaces
Location	Online (Zoom meeting)

Attendees	
Students	Azwad M A (Codse233f-075) Ilma M H F (Codse233f-177)
Organization Members	Mr. Aflah Mubarak (Secretary)

Agenda	
Time	
12.30 PM – 02.00 PM	Showing the user interfaces

Gathered Information/ Key points discussed
Enhancements based on the client preference and further modifications as they added few functionalities are discussed

Action items assigned/ Decisions made

Planned to change selected tab controls of the interface for the ease of use

Next meeting Date - (not decided)