



SECJ2203: Software Engineering System Documentation (SD)

Koperasi Kakitangan KADA (KKK) Online System

Version 2.0

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Faculty of Computing

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Revision Page

a. Overview

The current version of the KKK Online System is to improve cooperative procedures such as member registration, loan application management, administrative tasks, approval tracking and financial reporting. By digitising manual processes and enabling online registration, loan applications and approval tracking, it improves accessibility and efficiency. Board members look over and approve applications, while administrators manage data and policies.

b. Target Audience

The System Documentation is designed for system developers, administrators and technical support teams that are responsible for implementing, maintaining and troubleshooting the KKK online system. It is also created for board members and other stakeholders who require a high-level understanding of the system's operations and procedures in order for management and decision-making.

c. Project Team Members

Member Name	Role	Task	Status
Tan Yi Ya	Project manager	<ul style="list-style-type: none">Specify design constraintsDefine performance and other requirements	Complete
Chua Jia Lin	System analyst	<ul style="list-style-type: none">Create user story for KKK adminDraw sequence diagramDraw activity diagram	Complete
Goe Jie Ying	System designer	<ul style="list-style-type: none">Create user story for apply membershipDraw sequence diagramDraw activity diagram	Complete
Lam Yoke Yu	System developer	<ul style="list-style-type: none">Document launch phaseDraw state diagramDraw class diagramDraw use case diagram	Complete
Teh Ru Qian	System testing	<ul style="list-style-type: none">Create user story for apply loanDraw sequence diagramDraw activity diagram	Complete

d. Version Control History

Version	Primary Author	Description of Version	Date Completed
1.0	Chua Jia Lin Goe Jie Ying Lam Yoke Yu Tan Yi Ya	Completed all sections in the system documentation	8/2/2025

	Teh Ru Qian		
2.0	Chua Jia Lin Goe Jie Ying Lam Yoke Yu Tan Yi Ya Teh Ru Qian	Updated all sections in the system documentation	13/2/2025

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1. Introduction

1.1 Purpose

The purpose of this System Document is to describe the KKK Online System. This document describes and defines the user interface, functions, performance, security and quality requirements for developing the system.

This document is intended for the development team, including but not limited to designers, developers, project managers, end-user, test and managers.

1.2 Scope

The software product to be produced is KKK Online System. The system functions as an online medium to handle various actions such as member registration, service tracking, administrative management and data reporting. The KKK Online System includes functionality of:

1. New Member Registration

The new member can apply for cooperative membership using online application form, which reduces paperwork and enables remote access.

2. Loan Application Management

The loan application can be submitted through the online system, allowing applicants to track their application status online.

3. Administrator Controls

Administrators manage member data, prepare applications for board review, and update system policy.

4. Approval Process

The system allows applications to be reviewed for board meetings, where directors review and make approval decisions that administrators then enter into the system.

5. Financial Reporting

The system generates monthly and annual reports from stored data, aiding the cooperative in evaluating its financial and operational performance from time to time.

The system does not include the following functionality:

1. Transaction into or out of user account
2. Generate monthly profit and loss report

The KKK Online System should ease the process of applying for membership, loan and other relevant processes by taking away the burden of travelling physically to carry out the action. By digitising previously manual processes, the system aims to enhance data security, improve efficiency and accessibility for all stakeholders, including new applicants, members, administrators, and board members. The system should have different functions based on user roles, and support multiple end devices such as desktop and mobile platforms, to allow accessibility across various devices.

1.3 Definitions, Acronyms and Abbreviation

This section provides the definitions of all terms, acronyms, and abbreviations required to interpret this System Documentation.

KADA	<i>Lembaga Kemajuan Pertanian Kemubu</i>
KKK	<i>Koperasi Kakitangan KADA Kelantan Berhad.</i>
SD	<i>System Documentation</i>
ISO/IEC	<i>International Organization for Standardization/International Electrotechnical Commission</i>
IEEE	<i>Institute of Electrical and Electronics Engineers</i>
TLS	<i>Transport Layer Security</i>
WPA	<i>Wi-Fi Protected Access</i>
UTC	<i>Coordinated Universal Time</i>

1.4 References

- [1] Sommerville, I. (2016). “Software Engineering”, 10th Edition, US: Pearson.
- [2] “Portal Lembaga Kemajuan Pertanian Kemubu | KADA KEMUBU.” <http://www.kada.gov.my/>
- [3] R. Wherry, “Waterfall Project Management: Comprehensive Guide For Success,” Brand, <https://www.clearpointstrategy.com/blog/waterfall-project-management>

1.5 Overview

The remainder of this SD includes the following:

- A description of Persona that specifies the characteristics and needs of the intended user of the KKK system in general.
- System features with supporting diagrams to push the understanding further, for example use case diagram, class diagram and state diagram.
- Product backlog that plans each sprint according to the use case diagram, assigning each team member.
- A detailed description of the user story for each use case, simulating different scenarios of user story, specifying the user needs further with supporting diagrams.
- Non-functional requirements that declare the characteristics or qualities of the system, to describe the behaviour and the operation norm of the system.
- Design constraints defined by the stakeholders.
- Architectural design that describes the architecture selected and the rationale of the choice.
- Architectural view of the system including use case view, development view, logical

view, process view and physical view.

- Data design that details the entities and attributes of the system.
- User interface design that shows the look of the system and how the expected goals can be achieved and information displayed for the user.
- Traceability that provided cross-reference that links user story to the package and sprints.
- Test case that details the input and expected outcomes designed to assess the functionality and behavior of the specific feature.
- Traceability matrix that extends from the traceability section by including cross reference to sequence diagram and test cases.

2. Specific Requirements

This section outlines the software requirements in detail in order to guide the process of design, development, and testing. By describing all required inputs, outputs, and functionality in specifics, it ensures that the system satisfies the needs of users and stakeholders.

2.1 User characteristics

There are two main users of the system, namely users or members and administrators. The members can be divided into two, which are the new users and the existing members.

2.1.1 User / Member

- The users who will use the software are expected to have basic computer skills, including familiarity with web applications.
- They may have varying levels of computer literacy, due to the wide range of user age.
- They will use the software to make member applications, loan applications and view their financial status.

2.1.2 Admin

- The admin who will use the software are expected to have basic computer skills, including familiarity with web applications.
- They may have varying levels of technical expertise, but will receive training on how to use the software.
- They will use the software to complete administrative tasks to update the member's financial status, application status, and maintain the website.

2.2 System Features

KKK Online System is a web-based software. The system provided a means for the KKK members and staff to better manage the member application and loan application. For KADA employees that intend to be a member of the cooperative, the system allows them to apply for membership. It also has other features such as updating user profile, viewing financial status, generating reports, recording transactions and updating policies and banners.

The system features are illustrated in Figure 2.1 below. The detailed description of each module and functions is tabulated in Table 2.1.

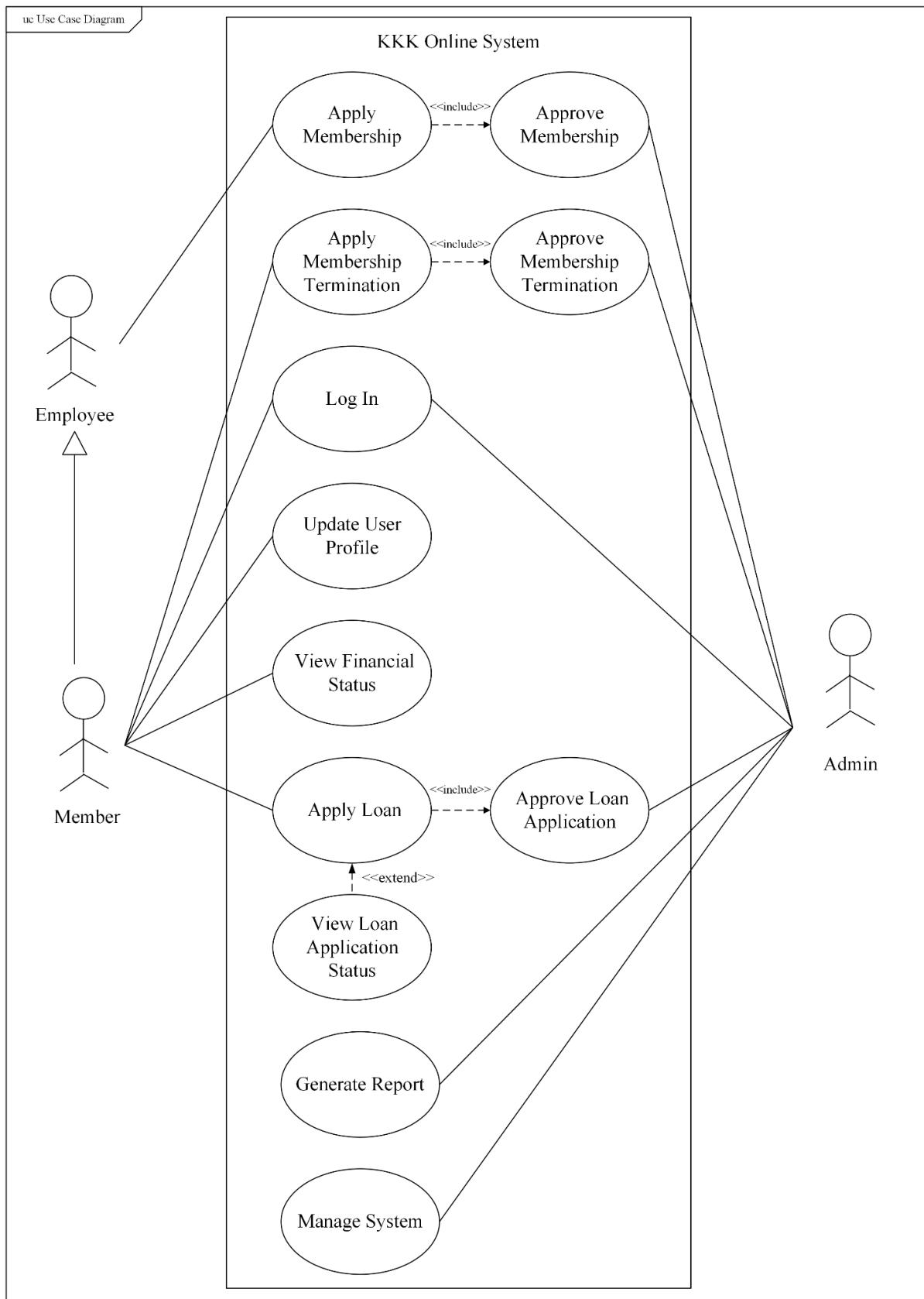


Figure 2.1 Use Case Diagram for KKK Online System

Table 2.1: Description of Module and Functions for KKK Online System

Use Case	Function	Description
UC01	Apply Membership	The employees in KADA can apply to be a member of the KKK cooperative by filling in the online form and upload any required documents.
UC02	Update User Profile	The cooperative members can update their user personal information, and the family and inheritor information.
UC03	Log In	The cooperative member and the administrator can log in the system by using the correct login credentials. The members will then be directed to the member's page and the administrator will be directed to the administrator's page.
UC04	View Financial Status	Upon log in to the system, the cooperative member would be able to view their financial status including the share information (Maklumat Saham Ahli) and the loan information (Maklumat Pinjaman Ahli).
UC05	Apply Loan	The cooperative members can apply for financing services from the cooperative by filling in the online form and upload any required documents.
UC06	View Loan Application Status	Upon the loan application submission, they would be able to see their application status through the system.
UC07	Apply Membership Termination	The cooperative members can apply for membership termination and after that the member will no longer be a cooperative member.
UC08	Approve Membership	The admin would be able to update the status of the membership application.
UC09	Approve Loan Application	The admin would be able to update the status of the loan application.
UC10	Generate Report	The admin can generate monthly and annual reports that summarise the financial and membership information.

UC11	Manage System	<p>The admin may be able to do other administrative tasks that are necessary to maintain the system.</p> <p>After a transaction settled between the stakeholders, the admin would update the transaction in the system to reflect the transaction in the member profile. This includes updating the amount of share capital, funds, contributions and loans.</p> <p>Besides, the administrator would be able to update policies such as the minimum membership, minimum share capital requirement for loan application, loan interest rate, maximum loan repayment duration and maximum financing amount.</p> <p>The administrator can also update the website banner. This ensures the sustainability of the system.</p>
UC12	Approve Membership Termination	<p>The admin would be able to update the status of the membership termination application.</p>

The domain model of the KKK Online System is illustrated in Figure 2.2 below and described in Table 2.2.

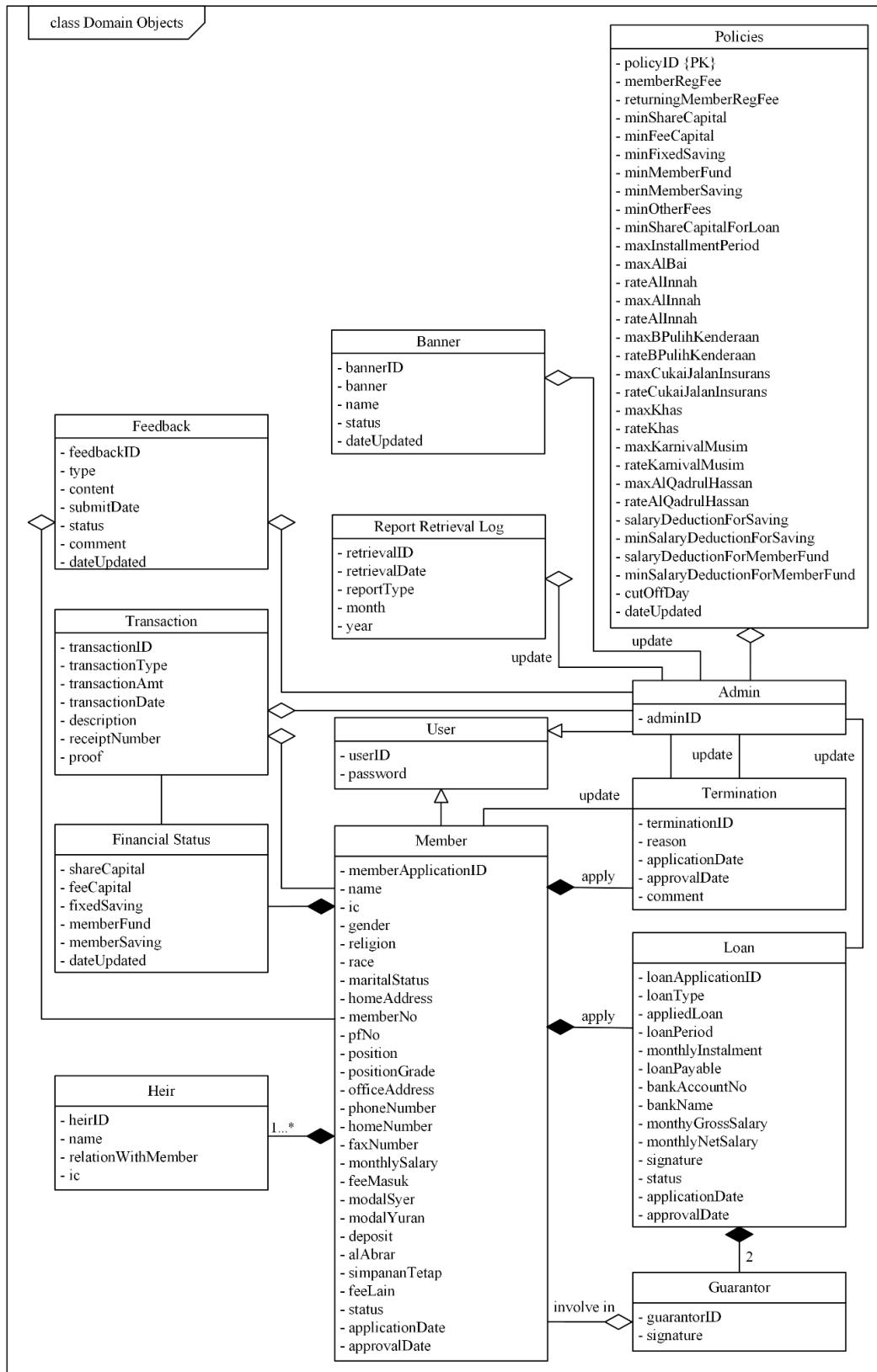


Figure 2.2: Domain Model for KKK Online System

Table 2.2: Description of Classes for KKK Online System

Class	Description
User Class	<p>Represents all users that use the system. The information in this class will act as login credentials to the system.</p> <ul style="list-style-type: none"> • userID: A unique identifier for user • password: Password to login to the system
Member Class	<p>Represents a person registered in the system as a member. As a user applies for a member, an object of the member is created.</p> <p>The <i>Member</i> class is inherited from the <i>User</i> class. A member whose status is accepted would be eligible to apply for a loan.</p> <ul style="list-style-type: none"> • memberApplicationID: A unique identifier for membership application. • name: Name of the member. • ic: Identity card (MyKad) number of the member. • gender: Gender of the member. This attribute is an enumeration with the values Male (Lelaki) and Female (Perempuan). • religion: Religion of the member. This attribute is an enumeration with the values Islam, Buddhism (Buddha), Hinduism (Hindu), Christianity (Kristian) and Others (Lain-lain). • race: Race of the members. This attribute is an enumeration with the values Malay (Melayu), Chinese (Cina), Indian (India) and Others (Lain-lain). • maritalStatus: Marital status of the member. • homeAddress: Address of the member. • memberNo: Member number of the member. The member number would be available as the application is approved. • pfNo: PF number of the member. • position: Position held by the member. • positionGrade: Position grade of the member. • officeAddress: Address of the member on duty. • phoneNumber: Phone number of the member. • homeNumber: Home number of the member. • monthlySalary: Monthly salary of the member with the currency of RM. • feeMasuk: The member application fee (Fee Masuk) in RM, that the member shall pay if the member application is approved. • modalSyer: The share capital (Modah Syer) in RM, that the member shall buy if the member application is approved. • modalYuran: The fee capital (Modal Yuran) in RM, that the member shall pay if the member application is approved. • deposit: The fixed saving or fixed deposit (Wang Deposit Anggota) in RM, that the member would like to deposit. • alAbrar: The member fund contribution (Sumbangan Tabung Kebajikan) in RM, that the member would like to contribute each month from their salary.

	<ul style="list-style-type: none"> • simpananTetap: The member saving (Simpanan Tetap) in RM, that the member would like to save each month from their salary. • feeLain: The other fee (Lain-lain) in RM, that the member shall pay if the member application is approved. • status: Application status of the member. This attribute is an enumeration with the values Processing (Sedang Diproses), Rejected (Ditolak), Accepted (Dilulus) and Pension (Pencen) and Terminated (Berhenti). • applicationDate: Date when the application is submitted. • approvalDate: Date when the application is approved.. • adminID: A unique identifier for the admin who updated the result of member application.
Heir Class	<p>Represents an heir (pewaris) for a member.</p> <p>The Heir class is a composition of the <i>Member</i> class. The relation is one to many relation, where a member can have one or more heirs.</p> <ul style="list-style-type: none"> • heirID: A unique identifier for the heir. • name: Name of the heir. • relationshipWithMember: Relationship of the heir with associated the member. • ic: Identity card (MyKad) number of the heir.
Financial Status Class	<p>Represents the financial status of the associated member.</p> <p>The <i>Financial Status</i> class is a composition of the <i>Member</i> class. The relationship is a one to one relationship.</p> <ul style="list-style-type: none"> • shareCapital: Share capital (Modah Syer) of the associated member with the currency of RM. • feeCapital: Fee Capital (Modal Yuran) of the associated member with the currency of RM. • fixedSaving: Fixes Saving or Fixed Deposit (Simpanan Tetap) of the associated member with the currency of RM. • memberFund: Member Fund (Tabung Anggota) of the associated member with the currency of RM. • memberSaving: Member Saving (Simpanan Anggota) of the associated member with the currency of RM. • dateUpdated: The last date of the financial status is updated. The update is made by the admin and detailed in the Transaction class.
Loan Class	<p>Represents the loan application applied by the associated member.</p> <p>A member of the cooperative fulfilling the minimum share capital would be able to apply for loans.</p> <ul style="list-style-type: none"> • loanApplicationID: A unique identifier for the loan application. • loanType: The type of loan applied by the member. This attribute is an enumeration with the values Al-Bai, Al-Innah, Baik Pulih Kenderaan, Road Tax and Insurance, Special Scheme (Khas),

	<p>Special Season Carnival (Karnival Musim Istimewa) and Al-Qadrul Hassan.</p> <ul style="list-style-type: none"> ● appliedLoan: The amount of loan applied by the member in RM. ● loanPeriod: The instalment period of the applied loan. ● monthlyInstalment: The monthly instalment amount of the applied loan in RM. ● loanPayable: The remaining loan in RM, that the member has to repay. The amount will be updated every month after salary deduction. ● bankAccountNo: The bank account number of the applicant. ● bankName: The bank associated with the bank account number provided. ● monthlyGrossSalary: The monthly gross salary of the applicant in RM. ● monthlyNetSalary: The monthly net salary of the applicant in RM. ● signature: The reference to the uploaded acknowledgement form with the signature of the applicant's employer. ● status: Application status of the member. This attribute is an enumeration with the values Processing (Sedang Diproses), Rejected (Ditolak), Accepted (Diterima) and Cleared (Dijelaskan). ● applicationDate: Date when the application is submitted. ● approvalDate: Date when the application is approved.. ● adminID: A unique identifier for the admin.
Guarantor Class	<p>Represents a guarantor for the loan application.</p> <p>The <i>Guarantor</i> class is a composition of the <i>Loan Application</i> class, where there must be two guarantors for each application. At the same time. The <i>Guarantor</i> class is associated with the <i>Member</i> class, where the guarantor has to be a member.</p> <ul style="list-style-type: none"> ● guarantorID: A unique identifier for the guarantor application. ● memberNo: The member number of the guarantor. ● signature: The reference to the uploaded acknowledgement form with the signature of the applicant's employer.
Termination Class	<p>Represents the record for member termination.</p> <p>A member of the cooperative who does not have debts with the cooperative would be able to apply for loans.</p> <ul style="list-style-type: none"> ● terminationID: A unique identifier for membership termination that was filled by the member. ● reason: A description of reason. ● applicationDate: Date when the application is submitted. ● approvalDate: Date when the application is approved. ● comment: Comment of the admin. ● adminID: A unique identifier for the admin.
Admin Class	Represents a person registered in the system as an admin.

	<p>The <i>Admin</i> class is inherited from the <i>User</i> class. The adminID would be the same as the userID. An admin would be able to update the status of the <i>Member</i> class, <i>Loan</i> class, <i>Policies</i> class, <i>Transaction</i> class and <i>Banner</i> class.</p> <ul style="list-style-type: none"> ● adminID: A unique identifier for the admin.
Report Retrieval Log Class	<p>The class records the details of report retrieval. This serves as a record for tracking and auditing purposes.</p> <p>This class is associated with the Admin class and Report class. The aggregation between the Admin class and the Report Retrieval Log class specifies the admin who retrieves the report. While the aggregation between the Report class specifies the report that is retrieved.</p> <ul style="list-style-type: none"> ● retrievalID: A unique identifier for the report. ● retrievalDate: Date when the report is retrieved. ● reportType: The type of report. This attribute is an enumeration with the values Monthly (Bulanan) and Annually (Tahunan). ● month: Month of the report. The value ranged from 0 to 12. If this is an annual report, it will be represented by 0. ● year: Year of the report.
Banner Class	<p>The class records the details of website banner updates. This serves as a record for tracking purposes.</p> <p>This class is associated with the Admin class. The aggregation between the Admin class and the Banner Update Log class specifies the admin who updated the banner.</p> <ul style="list-style-type: none"> ● bannerID: A unique identifier for the uploaded banner. ● banner: The path reference to the uploaded banner. ● name: The name of the banner uploaded. ● status: The status of the banner, either active or inactive. ● dateUpdated: Date when the banner is updated.
Policies Class	<p>Represents the policies that validates the input for the system.</p> <ul style="list-style-type: none"> ● policyID: A unique identifier for the policy. ● memberRegFee: The registration fee (Fee Masuk) in RM, that should be paid by the applicant once approved to be a member. ● returningMemberRegFee: The registration fee (Fee Masuk) in RM, that should be paid by the applicant, if the member has been a member previously, once approved to be a member. ● minShareCapital: Minimum share capital (Modah Syer Minimum) for a member in RM. ● minFeeCapital: Minimum fee capital (Modal Yuran Minimum) in RM. ● minFixedSaving: Minimum fixed saving or fixed deposit (Wang Deposit Anggota Minimum) in RM. ● minMemberFund: Minimum member fund contribution (Sumbangan Tabung Kebajikan Minimum) in RM.

- minMemberSaving: Minimum member savings (Simpanan Tetap Minimum) in RM.
- minOtherFees: Minimum amount of other fee (Lain-lain) in RM.
- minShareCapitalForLoan: Minimum share capital (Modah Syer Minimum) for a member in RM.
- maxInstalmentPeriod: Maximum loan instalment period (Tempoh Ansuran Maksima) in months.
- maxAlBai: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Al-Bai in RM.
- rateAlBai: Profit rate or interest rate (Kadar Keuntungan) for Al-Bai loan type in percentage.
- maxAlInnah: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Al-Innah in RM.
- rateAlInnah: Profit rate or interest rate (Kadar Keuntungan) for Al-Innah loan type in percentage.
- maxBPulihKenderaan: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Vehicle Overhaul in RM.
- rateBPulihKenderaan: Profit rate or interest rate (Kadar Keuntungan) for Vehicle Overhaul loan type in percentage.
- maxCukaiJalanInsurans: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Road Tax and Insurance in RM.
- rateCukaiJalanInsurans: Profit rate or interest rate (Kadar Keuntungan) for Road Tax and Insurance loan type in percentage.
- maxKhas: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Special Scheme in RM.
- rateKhas: Profit rate or interest rate (Kadar Keuntungan) for Special Scheme loan type in percentage.
- maxKarnivalMusim: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Special Season Carnival (Karnival Musim Istimewa) in RM.
- rateKarnivalMusim: Profit rate or interest rate (Kadar Keuntungan) for Special Season Carnival (Karnival Musim Istimewa) loan type in percentage.
- maxAlQadrulHassan: Maximum financing amount (Jumlah Pembiayaan Maksimum) for loan type Al-Qadrul Hassan in RM.
- rateAlQadrulHassan: Profit rate or interest rate (Kadar Keuntungan) for Al-Qadrul Hassan loan type in percentage.
- salaryDeductionForSaving: Monthly Salary Deduction Amount for Saving (Potongan Gaji Bulanan untuk Simpanan Tetap) in RM.
- minSalaryDeductionForSaving: Minimum monthly Salary Deduction Amount for Saving (Potongan Gaji Bulanan untuk Simpanan Tetap) that a member can set in RM.
- salaryDeductionForMemberFund: Monthly Salary Deduction Amount for Member Fund (Potongan Gaji Bulanan untuk Tabung Kebajikan) in RM.

	<ul style="list-style-type: none"> • minSalaryDeductionForMemberFund: Minimum Monthly Salary Deduction Amount for Member Fund (Potongan Gaji Bulanan untuk Tabung Kebajikan) in RM. • cutOffDay: The cut off day for salary to be deducted for member application and loan application. • dateUpdated: Date when the policy is updated.
Transaction Class	<p>Represent the transaction record. This class also serves as a record for tracking and auditing purposes.</p> <p>This class is associated with the Admin class and the Member class. The aggregation with the Admin class specifies the admin who updated the transaction. The aggregation with the Member class specifies the member whose financial status is being updated.</p> <ul style="list-style-type: none"> • transactionID: A unique identifier for the transaction record. • transactionType: The type of transaction made. This attribute is an enumeration with the values Share Capital (Modah Syer), Fee Capital (Modal Fee), Fixed Saving (Simpanan Tetap), memberFund (Tabung Anggota), memberSaving (Simpanan Anggota), Al-Bai, Al-Innah, Baik Pulih Kenderaan, Road Tax and Insurance, Special Scheme (Khas), Special Season Carnival (Karnival Musim Istimewa) and Al-Qadrul Hassan. • transactionAmt: The amount of the transaction in RM. • transactionDate: Date when the transaction is updated. • description: The description of the transaction. • receiptNumber: The receipt number of the transaction proof. • proof: The path reference to the uploaded proof.

The state diagram shows the states and transitions of an object throughout the system. The *Member* class and the *Loan* class would require a state diagram that shows the transition of application status.

Figure 2.3 shows the state diagram for the *Member* class. Once the user submits the application, the application will be in Processing state. After the meeting with the Board of Directors, the result of the application will be updated to either Approve state or Rejected state. As the application is approved, the applicant will be a member of the cooperative. If the member would like to quit the cooperative, the member can apply for membership termination. After approval, the member will be in the Terminated state. If the member retired, the member will be moved to Pension status. A member that is under the Pension status can also apply for termination or moved to termination status if the member passed away.

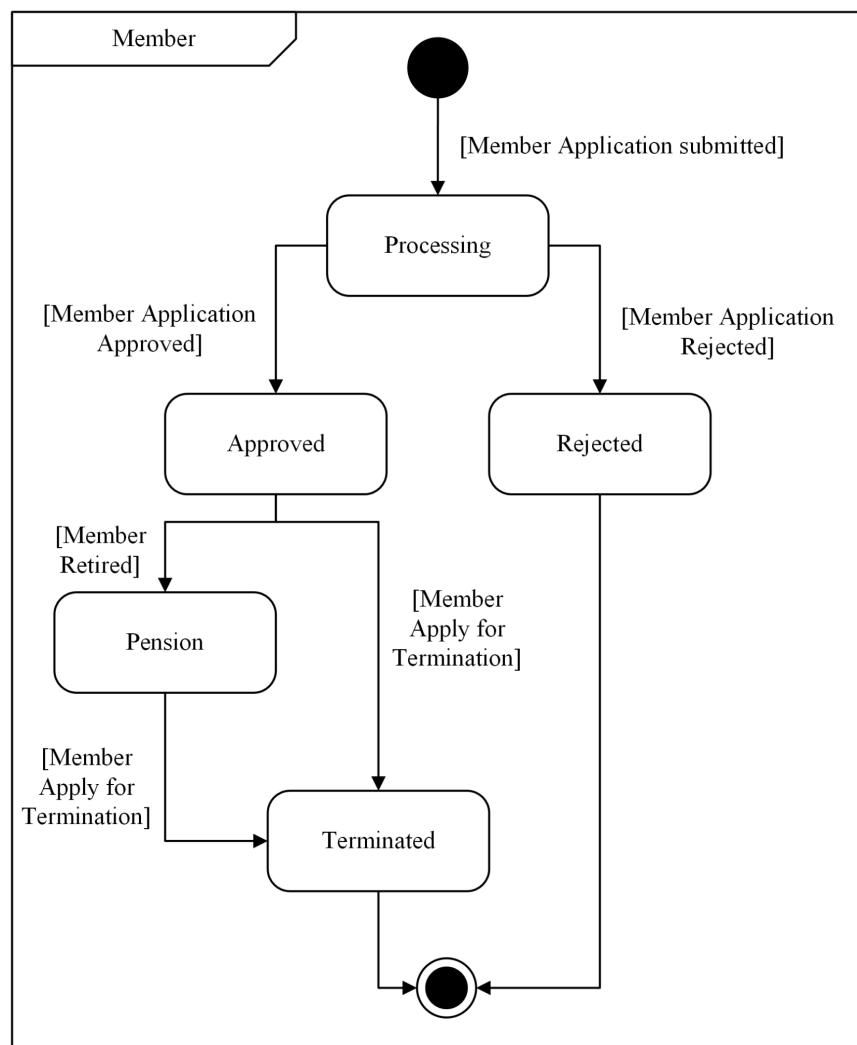


Figure 2.3: State Machine Diagram for Member Class

Figure 2.4 shows the state diagram for the Loan class. Once the user submits the application, the application will be in Processing state. After the meeting with the Board of Directors, the result of the application will be updated to either Approve state or Rejected state. If the loan is approved, the member shall repay the loan by monthly installments or pay directly to the cooperative until the debt is cleared.

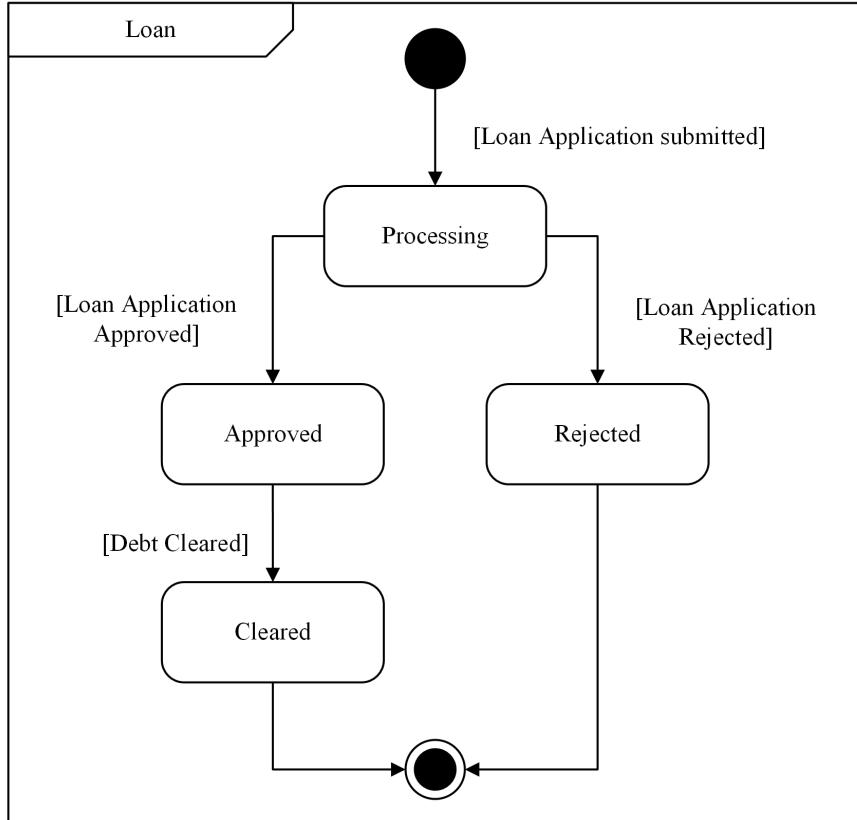


Figure 2.4: State Machine Diagram for Member Class

2.3 Launch Phase

The product backlog lists the parts and modules for the project according to the priorities. Table 1.2 shows the product backlog for the KKK Online System.

Table 1.2 Product Backlog for the KKK Online System

Sprint	Use Case Involved	Team Members Assigned
Sprint 1 User Module	UC01 Apply Membership (US01) UC03 Log In (US06)	Tan Yi Ya
	UC02 Update User Profile (US02)	Chua Jia Lin
Sprint 2 Member Module	UC04 View Financial Status (US03)	Chua Jia Lin
	UC05 Apply Loan (US04) UC06 View Loan Application Status (US05)	Teh Ru Qian

	UC07 Apply Membership Termination (US07)	Chua Jia Lin
Sprint 3 Admin Approve Module	UC08 Approve Membership (US08) UC09 Approve Loan Application (US09) UC12 Approve Membership Termination (US12)	Goe Jie Ying
Sprint 4 Admin Module	UC10 Generate Report (US10)	Teh Ru Qian
	UC11 Manage System (US11)	Lam Yoke Yu

2.4 User Story Details

This section outlines the user's goals and expectations for the system, focusing on the required actions. It defines the user story's scope, flow of events, sequence diagram, and activity diagram to ensure the system effectively meets the user's needs.

2.4.1 US01 User Story KADA Employee Apply Membership

Table 2.1 shows the user story description, followed by the sequence diagram in Figure 2.1 and the activity diagram in Figure 2.2.

Table 2.1: User Story Description for KADA Employee Apply Membership

User story:KADA Employee Apply Membership
ID: US01
User Story Description: As a KADA employee I want to register myself as a new member of the cooperative So that I can access the benefits provided by the cooperative
Flow of events: <ol style="list-style-type: none"> 1. The employee accesses the system through the website. 2. The employee chooses to register as a member. 3. The employee inputs all the required details. 4. The system presents the “Akuan Kebenaran” statement and the employee agrees by ticking the confirmation box. 5. The employee submits the application for review.
Alternative flow: <ol style="list-style-type: none"> 1. If incomplete details are provided, the system prompts the employee to fill in the missing fields before proceeding. 2. If the application is being rejected, the member cannot log into the system.

Acceptance Criteria:

Precondition:

1. The applicant must be a current employee of KADA.

Postcondition:

1. If the application is approved, the employee becomes a registered member of KKK and can access the benefits provided.
2. If the application is rejected, the employee will not be able to log into the system.
3. The system stores the accepted employee's data in the database

Exception flow:

If an error occurs while updating the information, the system prompts the employee to try again later.

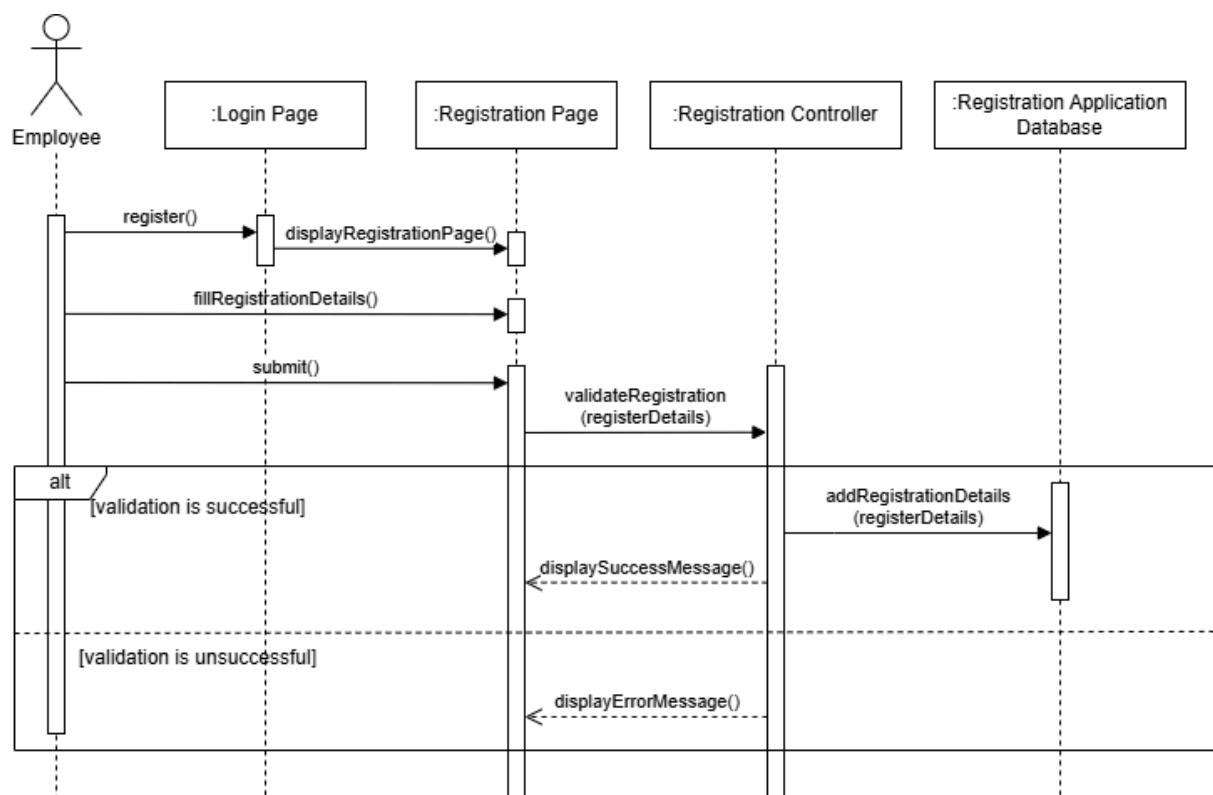


Figure 2.1: Sequence Diagram for KADA Employee Apply Membership

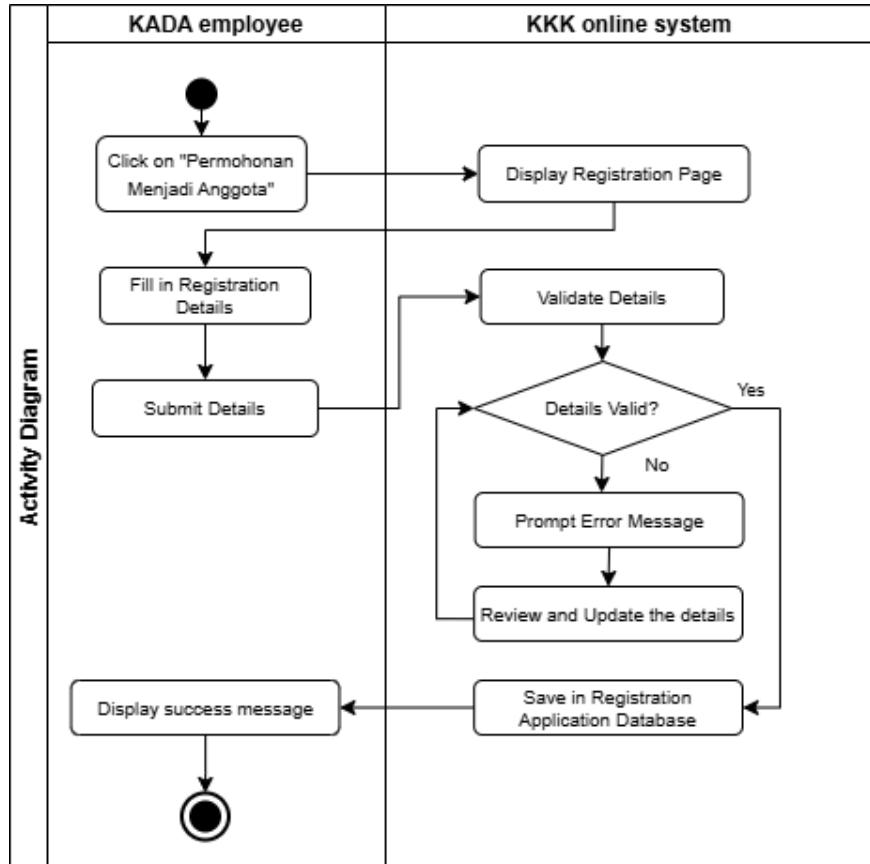


Figure 2.2: Activity Diagram for KADA Employee Apply Membership

2.4.2 US02 User Story Member Update User Profile

Table 2.2 shows the user story description, followed by the sequence diagram in Figure 2.3 and the activity diagram in Figure 2.4.

Table 2.2: User Story Description for Member Update User Profile

User story:Member Update User Profile
ID: US02
<p>User Story Description: As a registered KKK member I want to view and verify my personal details So that I can ensure my information is accurate</p>
<p>Flow of events:</p> <ol style="list-style-type: none"> 1. The employee logs into the KKK system. 2. The employee navigates to the "Profil" section. 3. The employee reviews the personal and family details for accuracy.
<p>Alternative flow: If there are errors in the information, the employee clicks "Kemaskini" to update the information and clicks "Simpan" to save the changes.</p>

Acceptance Criteria:

Precondition:

1. The employee is logged into the system.
2. The employee information is available in the system.

Postcondition:

1. The employee has verified or updated their personal details.

Exception flow:

If an error occurs while updating the information, the system prompts the employee to try again later.

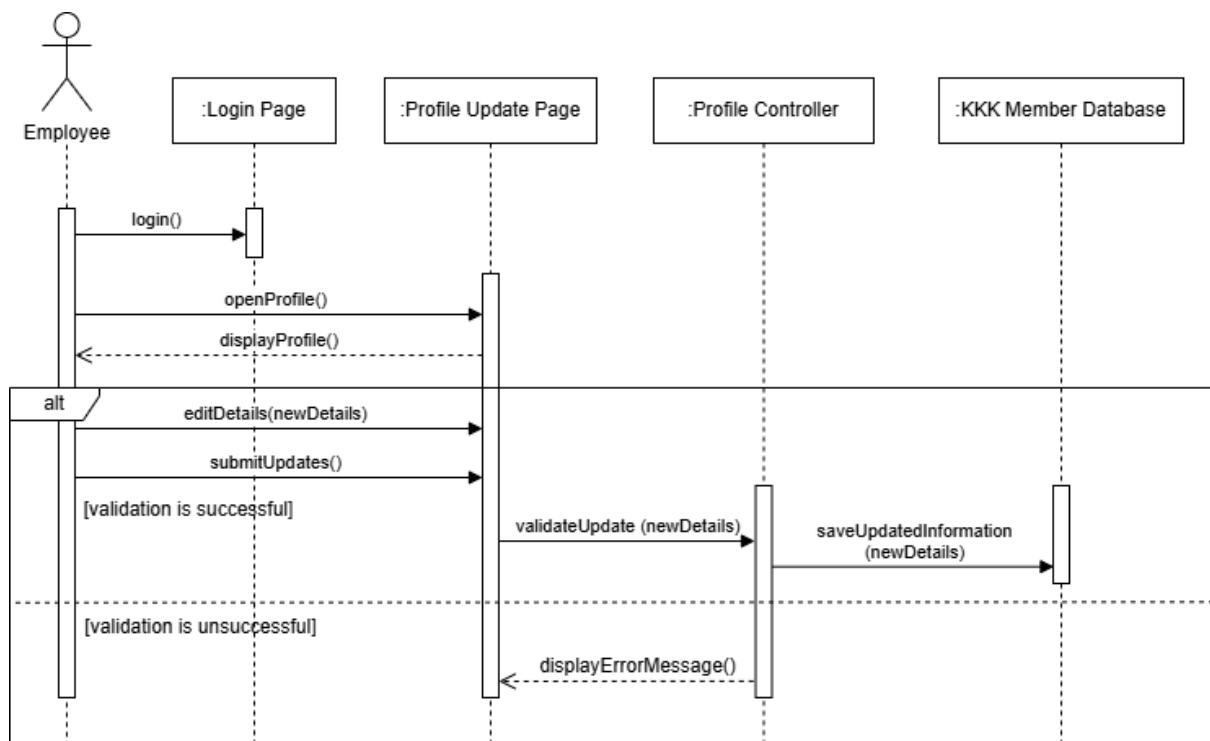


Figure 2.3: Sequence Diagram for Member Update User Profile

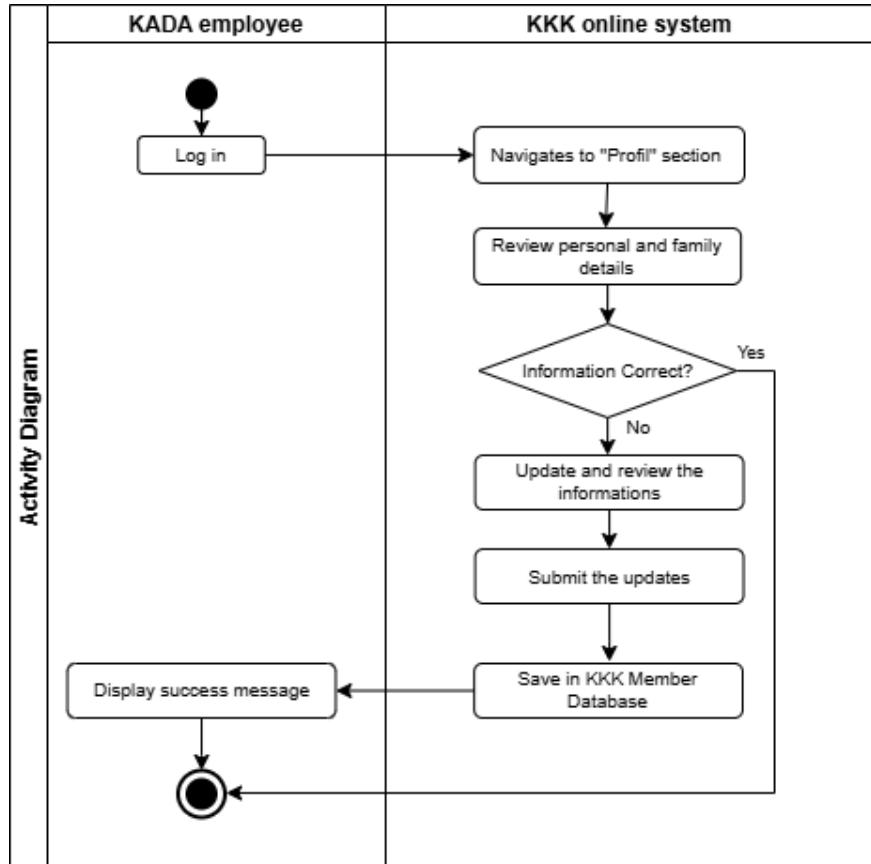


Figure 2.4: Activity Diagram for Member Update User Profile

2.4.3 US03 User Story Member View Financial Status

Table 2.3 shows the user story description, followed by the sequence diagram in Figure 2.5 and the activity diagram in Figure 2.6.

Table 2.3: User Story Description for Member View Financial Status

User story: Member View Financial Status
ID: US03
User Story Description: As a registered KKK member I want to view and verify my financial information So that I can know about my current financial status
Flow of events: 1. The employee logs into the KKK system. 2. The employee reviews the financial information displayed on the main page.
Alternative flow: -

Acceptance Criteria:

Precondition:

1. The employee is logged into the system.
2. The employee information is available in the system.

Postcondition:

1. The employee successfully views their current share information.

Exception flow:

The employee successfully views their current financial information.

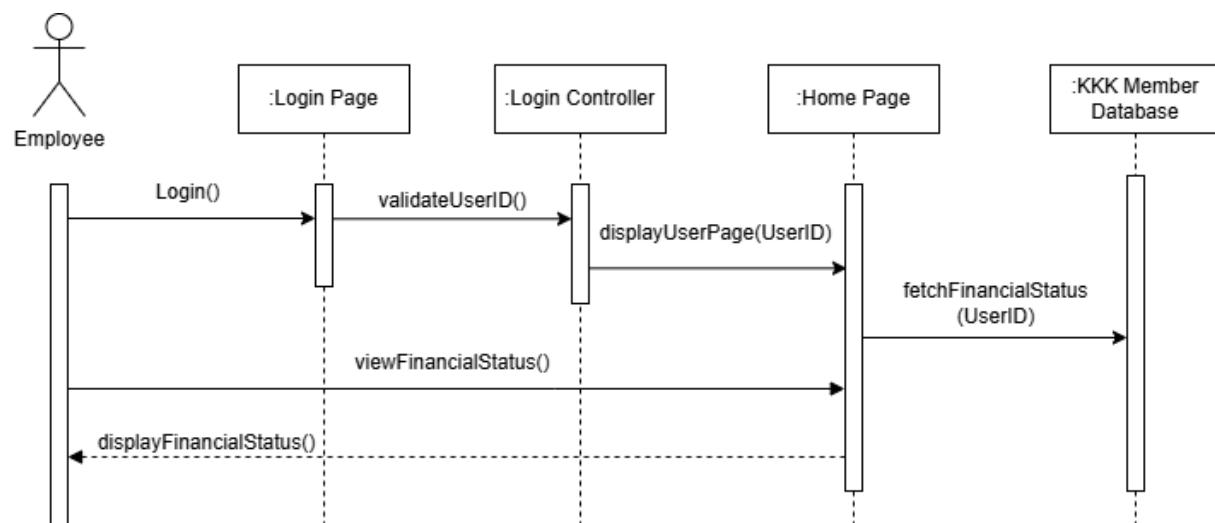


Figure 2.5: Sequence Diagram for Member View Financial Status

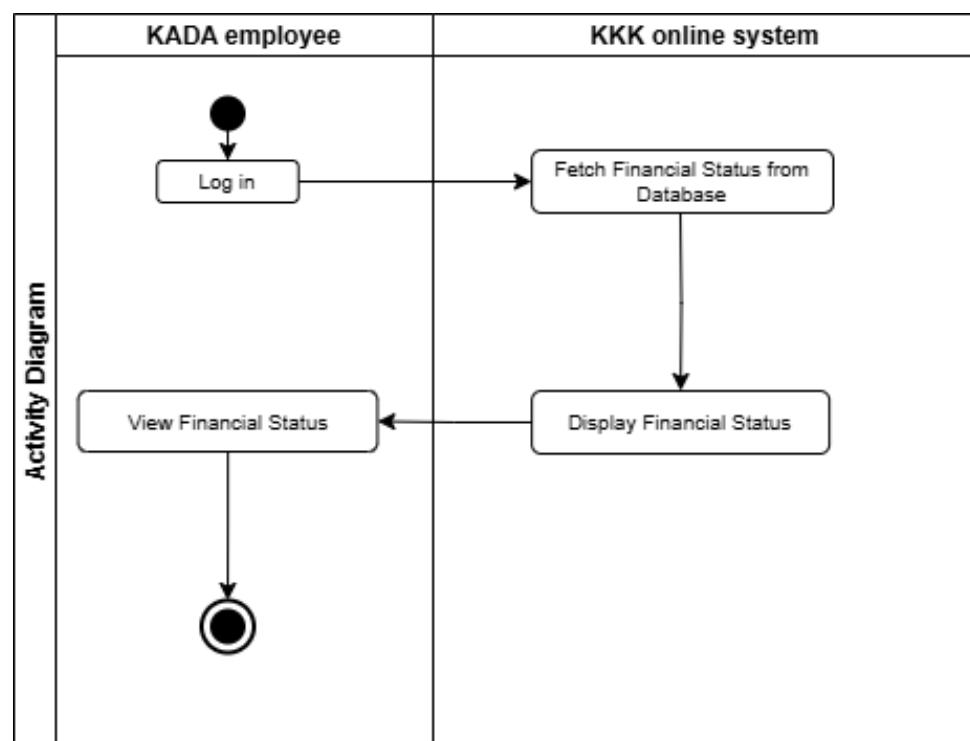


Figure 2.6: Activity Diagram for Member View Financial Status

2.4.4 US04 User Story Member Apply for a Loan

Table 2.4 shows the user story description, followed by the sequence diagram in Figure 2.7 and the activity diagram in Figure 2.8.

Table 2.4: User Story Description for Member Apply for a Loan

User story: Member Apply for a Loan
ID: US04
User Story Description: As a KKK Member I want to apply for a loan through the system So that I can get financial support
Flow of events: <ol style="list-style-type: none">1. The member logs into the system.2. Click "Pinjaman" on the navigation bar.3. Enter the loan amount.4. Fills in all personal details, including name, address and income information.5. Uploads the required documents such as "Butir-Butir Penjamin" and "Borang Pengesahan Majikan".6. Submits the loan application.7. The system confirms the application submission.
Alternative flow: <ol style="list-style-type: none">1. If eligibility requirements are not met, the system displays an error message.2. If incomplete details are provided, the system prompts the employee to complete it.
Acceptance Criteria: Precondition: <ol style="list-style-type: none">1. The member is logged into the system. Postcondition: <ol style="list-style-type: none">1. The loan application is saved and processed.
Exception flow: -

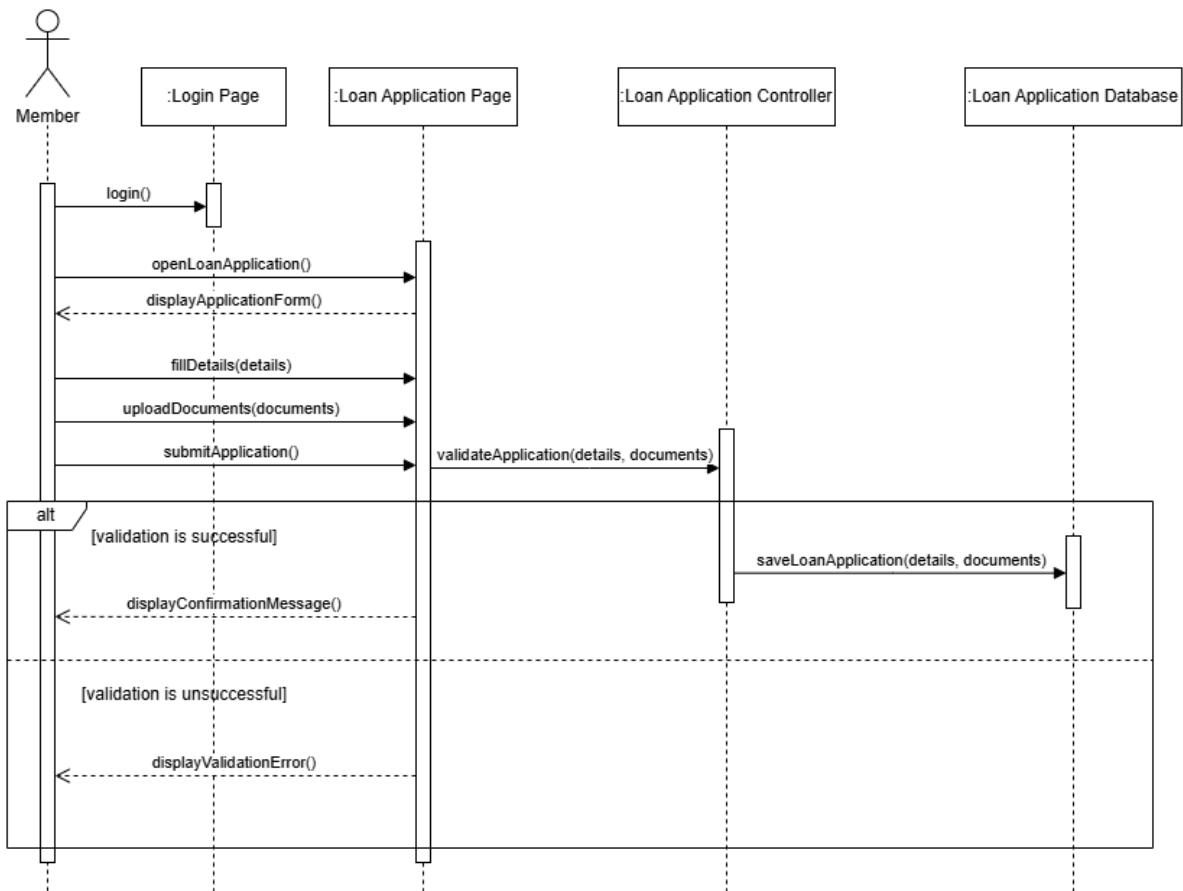


Figure 2.7: Sequence Diagram for Member Apply for a Loan

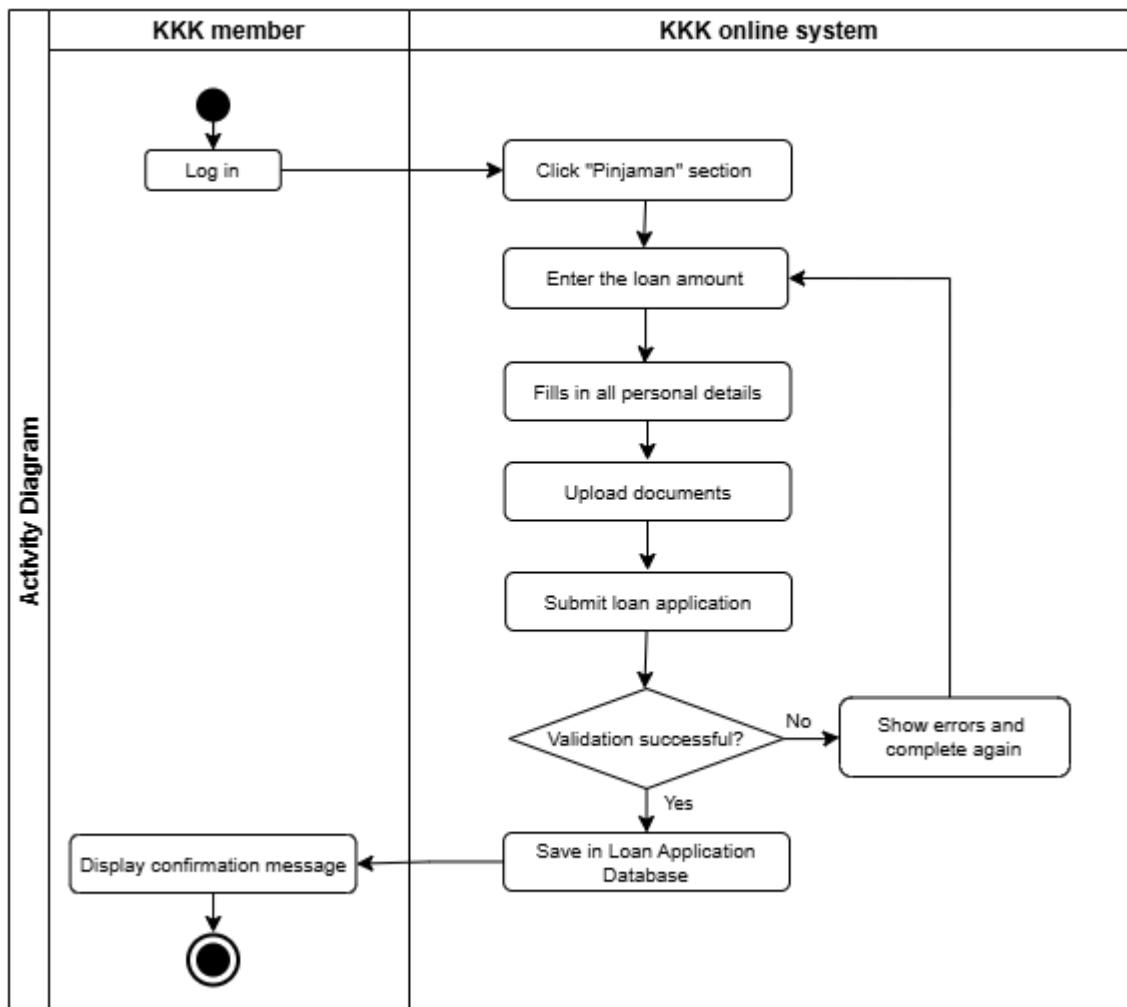


Figure 2.8: Activity Diagram for Member Apply for a loan

2.4.5 US05 User Story Member View Loan Application Status

Table 2.5 shows the user story description, followed by the sequence diagram in Figure 2.9 and the activity diagram in Figure 2.10.

Table 2.5: User Story Description for Member View Loan Application Status

User story: Member View Loan Application Status
ID: US05
User Story Description: As a KKK member I want to check the status of my loan application So that I know whether it is approved or rejected

Flow of events:

1. The system processes the loan application.
2. Click the “Pinjaman” section.
3. The system displays current loan status, such as “Sedang Diproses”, “Diterima” and “Ditolak”.
4. The system displays loan details, including total amount, repayment schedule and outstanding balance.

Alternative flow:

If no active loan exists, the system displays a message stating no current loans.

Acceptance Criteria:

Precondition:

1. The member has submitted a loan application.

Postcondition:

1. The member is able to view the current loan status and details in the system.

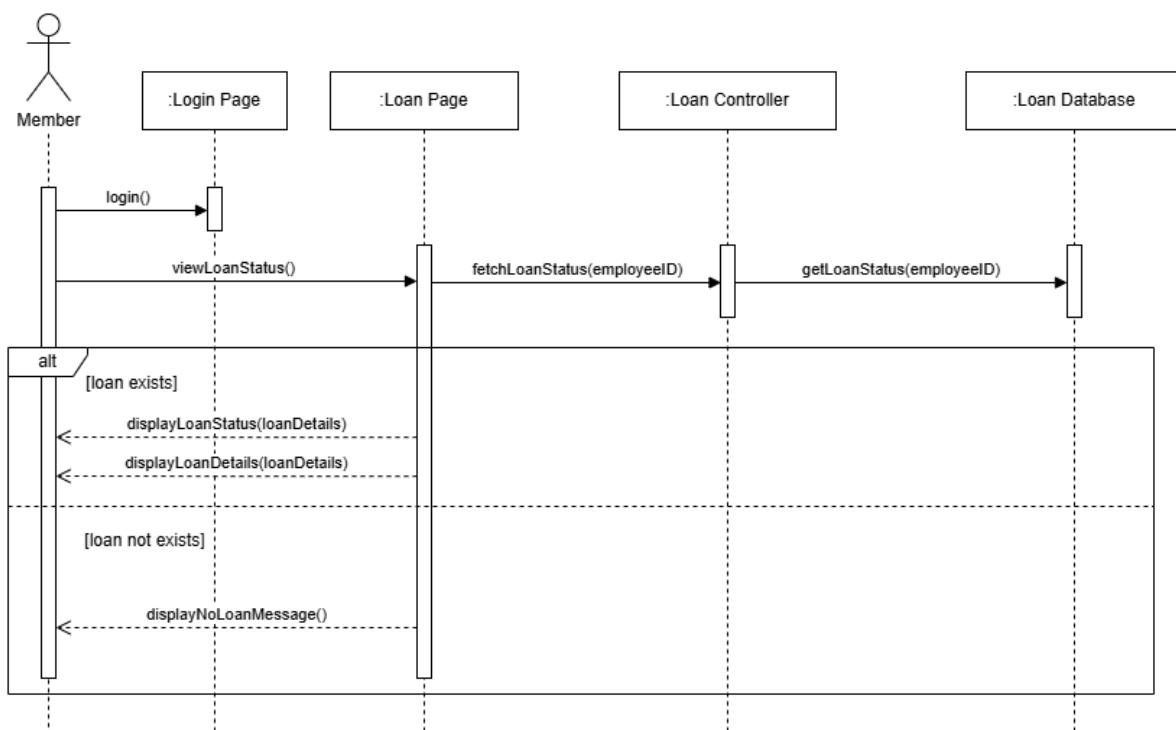
Exception flow: -

Figure 2.9: Sequence Diagram for Member View Loan Application Status

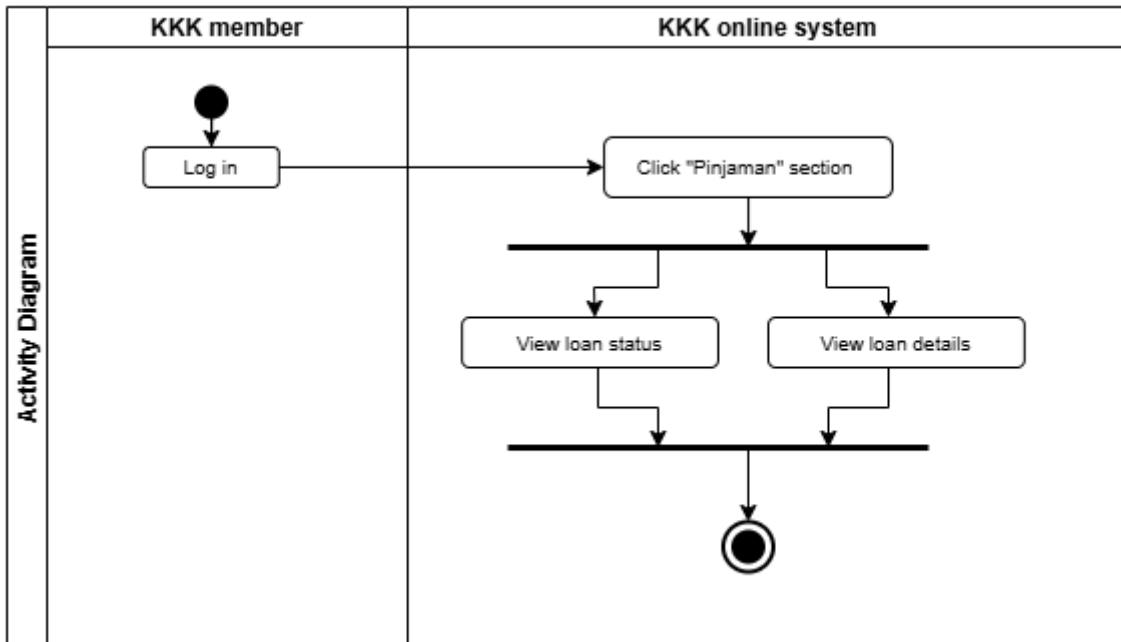


Figure 2.10: Activity Diagram for Member View Loan Application Status

2.4.6 US06 User Story KKK Admin Login to System

Table 2.6 shows the user story description, followed by the sequence diagram in Figure 2.11 and the activity diagram in Figure 2.12.

Table 2.6: User Story Description for KKK Admin Login to System

User story: KKK Admin Login to System	
ID: US06	
User Story Description: As a KKK admin I want to login to the system So that I can access the features of the system	
Flow of events: 1. Admin opens up the KKK web application and is directed to the login page. 2. Admin key in user ID and password in their respective column. 3. Admin clicks “Log masuk”. 4. System validate user ID and password.	
Alternative flow: If invalid user ID and password entered, the system prompts the user to re-enter user ID and password.	

Acceptance Criteria:

Precondition:

1. Admin has user ID and password.

Postcondition:

1. Admin redirected to the Admin main page.

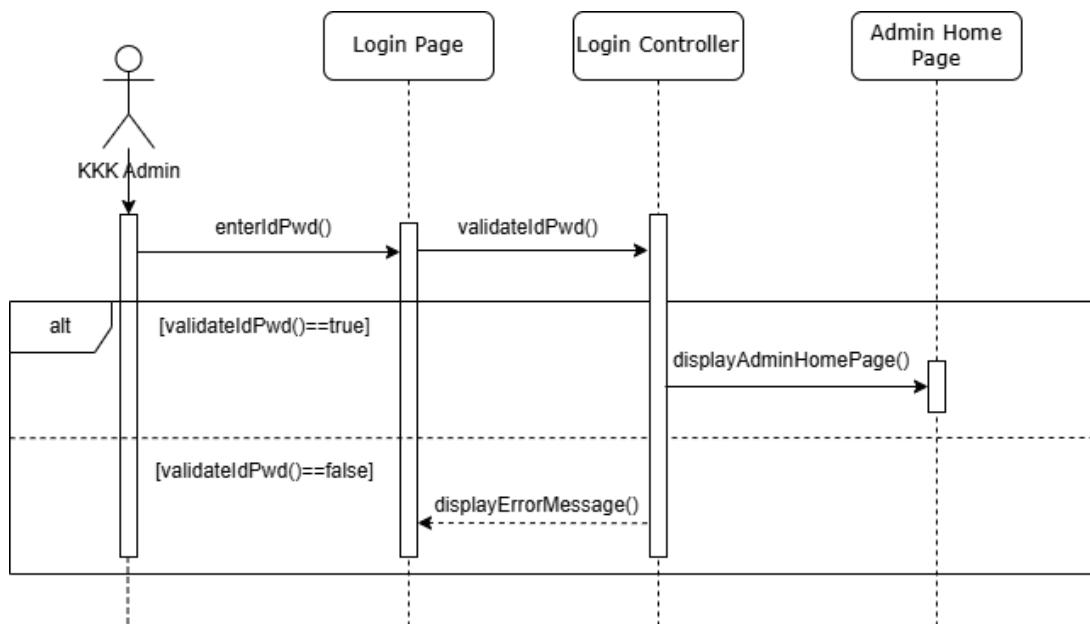
Exception flow: -

Figure 2.11: Sequence Diagram for KKK Admin Login to System

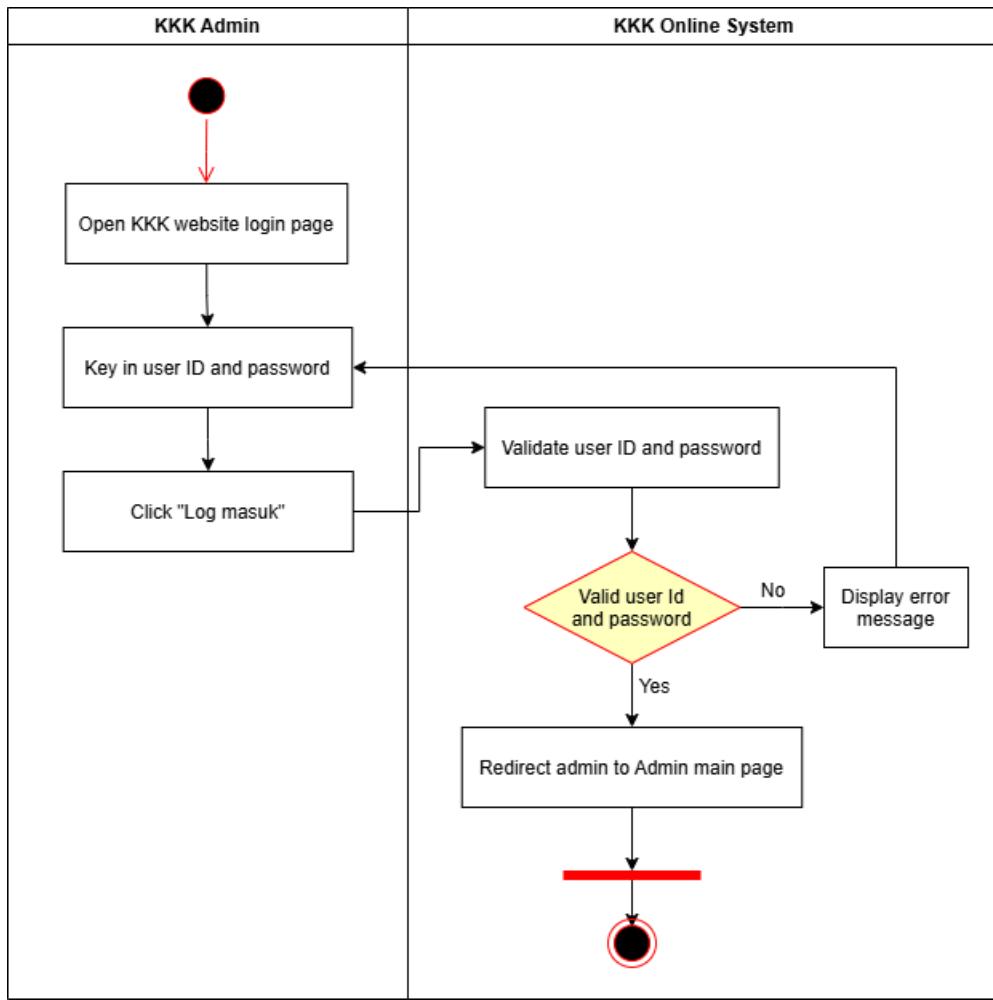


Figure 2.12: Activity Diagram for KKK Admin Login to System

2.4.7 US07 User Story KKK Member Apply Membership Termination

Table 2.9 shows the user story description, followed by the sequence diagram in Figure 2.17 and the activity diagram in Figure 2.18.

Table 2.9: Use Case Description for Apply Membership Termination

Use case: Apply Membership Termination	
ID:	UC07
Actor:	Member
Precondition:	<ul style="list-style-type: none"> The member logged in to the system.

Flow of events:

1. Click "Berhenti Sebagai Anggota" on the navigation bar.
2. Enter the reason.
3. Submit the application.

Alternative flow: If loans are not paid in full, the system displays an error message.

Postcondition: The membership termination application is saved and processed.

Exception flow: -

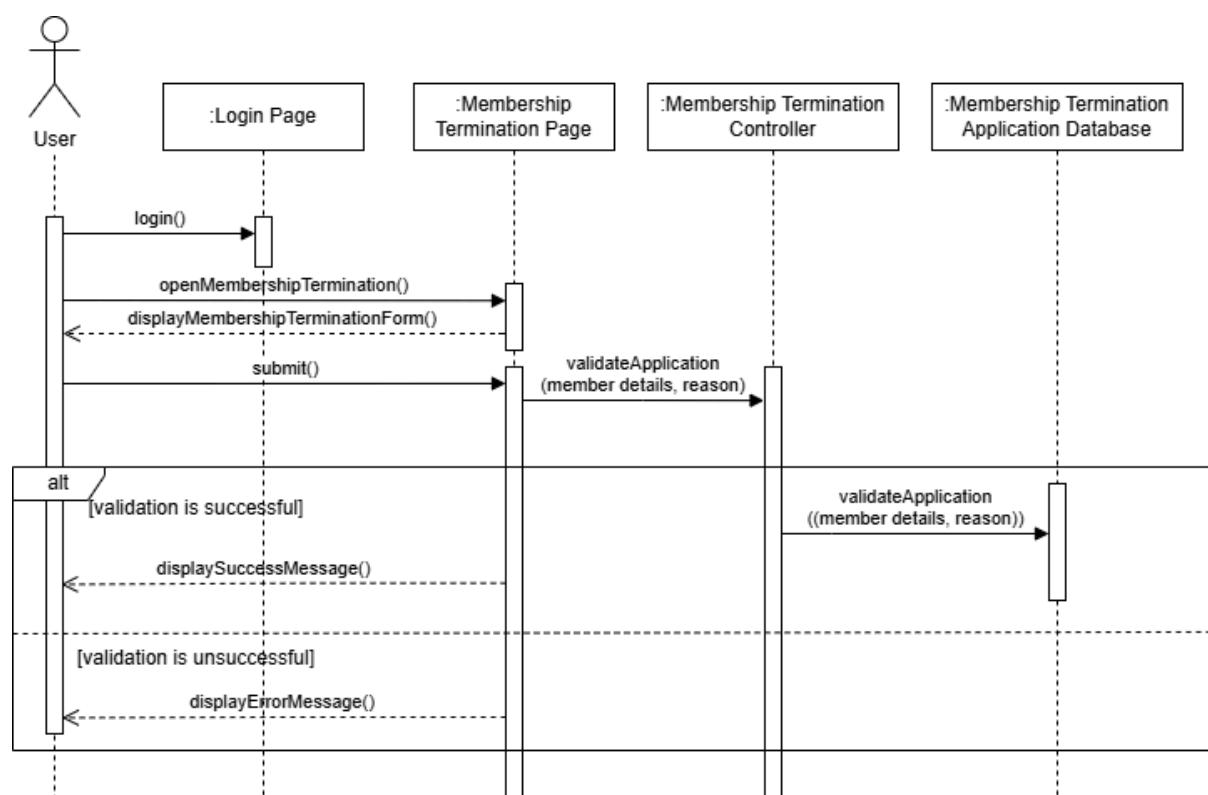


Figure 2.17: Sequence Diagram for Apply Membership Termination

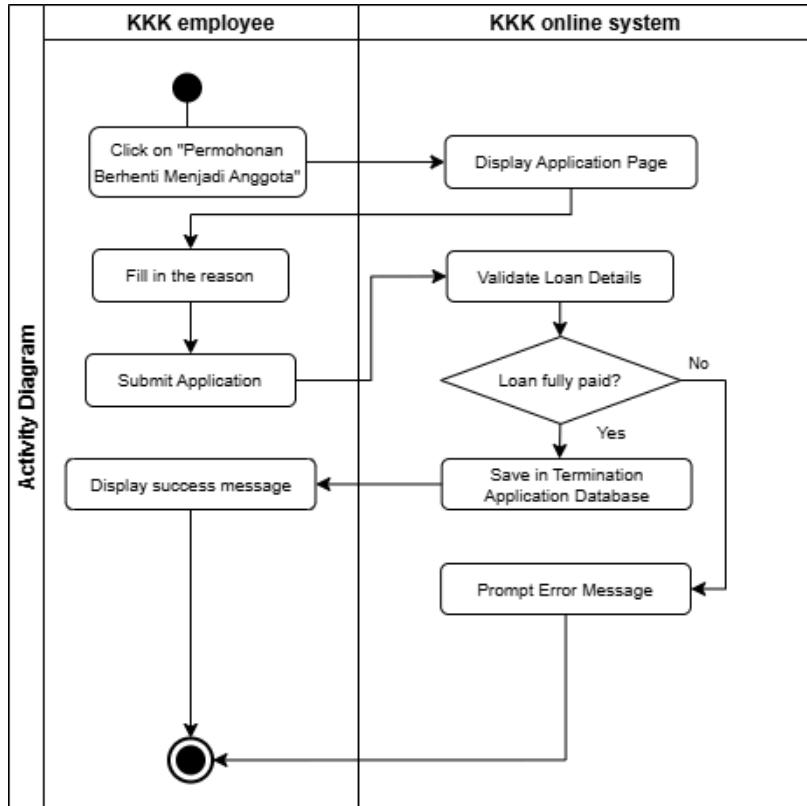


Figure 2.18: Activity Diagram for Apply Membership Termination

2.4.8 US08 User Story KKK Admin Approve New Member Application

Table 2.10 shows the user story description, followed by the sequence diagram in Figure 2.19 and the activity diagram in Figure 2.20.

Table 2.10: User Story Description for KKK Admin Approve New Member Application

User story: KKK Admin Approve New Member Application	
ID: US08	
User Story Description: As a KKK admin I want to approve new member applications So that I can check whether the applicant meets the requirements to become a member of the cooperative	
Flow of events: <ol style="list-style-type: none"> 1. Admin navigates to “Permohonan Anggota”. 2. Admin clicks “...” to view more about the applications. 3. Admin reviews the membership applications. 	

Alternative flow:

1. If approved, the system updates the application status to “Diterima.”
2. If rejected, the system updates the application status to “Ditolak.”

Acceptance Criteria:

Precondition:

1. Admin logged in to the system.

Postcondition:

1. When the membership applications’ status is updated to “Diterima” status, the applicant will be updated to “Senarai Anggota”.

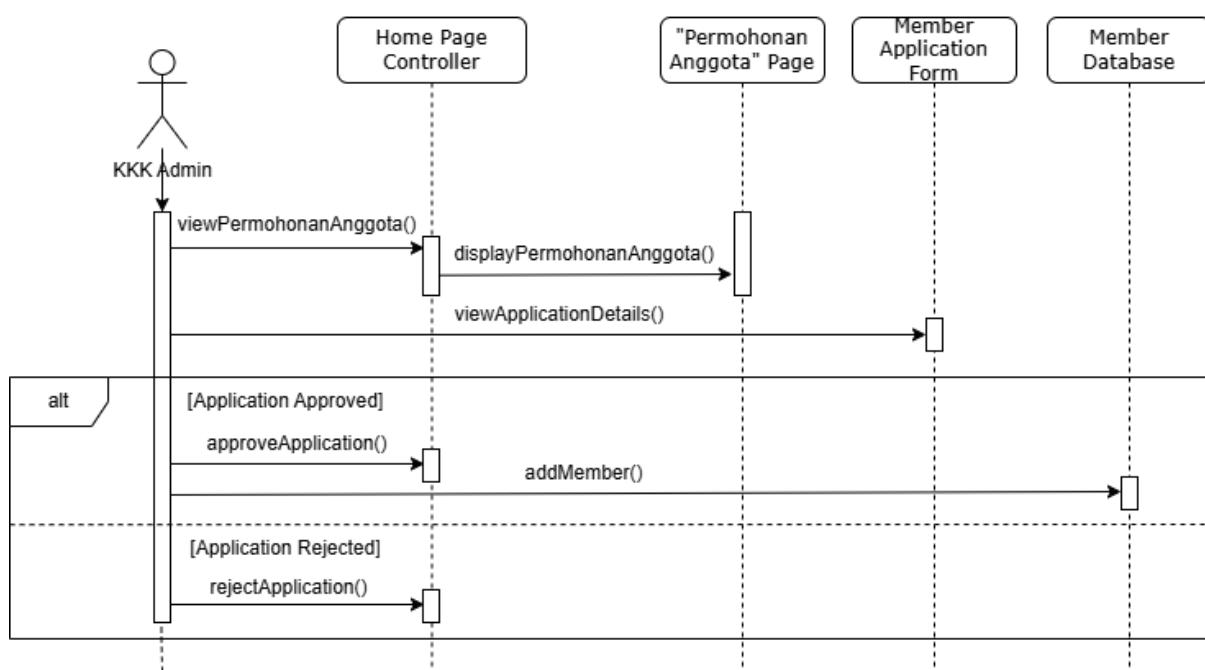
Exception flow: -

Figure 2.19: Sequence Diagram for KKK Admin Approve New Member Application

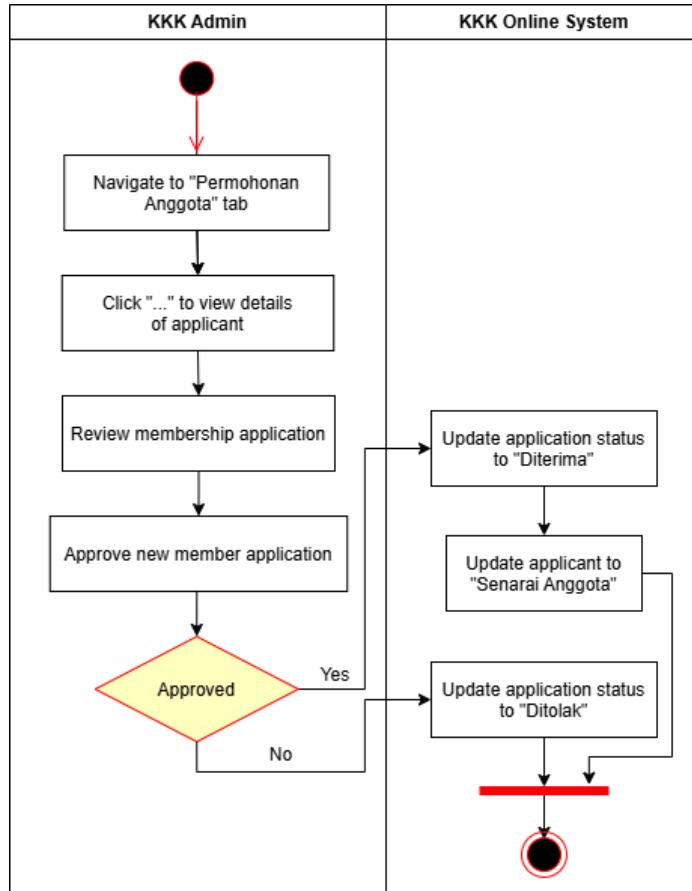


Figure 2.20: Activity Diagram for KKK Admin Approve New Member Application

2.4.9 US09 User Story KKK Admin Approve Loan Application

Table 2.11 shows the user story description, followed by the sequence diagram in Figure 2.21 and the activity diagram in Figure 2.22.

Table 2.11: User Story Description for KKK Admin Approve Loan Application

User story: KKK Admin Approve Loan Application
ID: US09
User Story Description: As a KKK admin I want to approve loan applications So that I can check whether the applicant meets the requirements to make a loan
Flow of events: <ol style="list-style-type: none"> 1. Admin navigates to “Permohonan Pinjaman”. 2. Admin clicks “...” to view more about the applications. 3. Admin reviews the loan applications.

Alternative flow:

1. If approved, the system updates the application status to “Diterima.”
2. If rejected, the system updates the application status to “Ditolak.”

Acceptance Criteria:

Precondition:

1. Admin logged in to the system.

Postcondition:

1. When the loan applications’ status is updated to “Diterima” status, the application will be updated to “Senarai Pinjaman”.

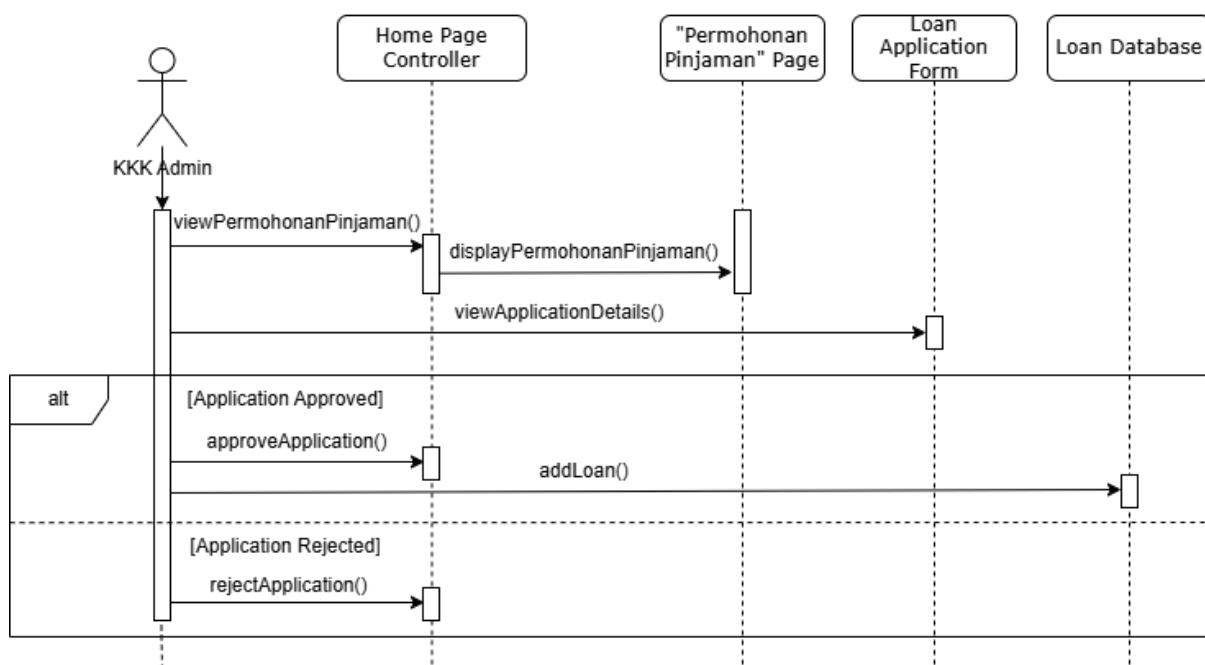
Exception flow: -

Figure 2.21: Sequence Diagram for KKK Admin Approve Loan Application

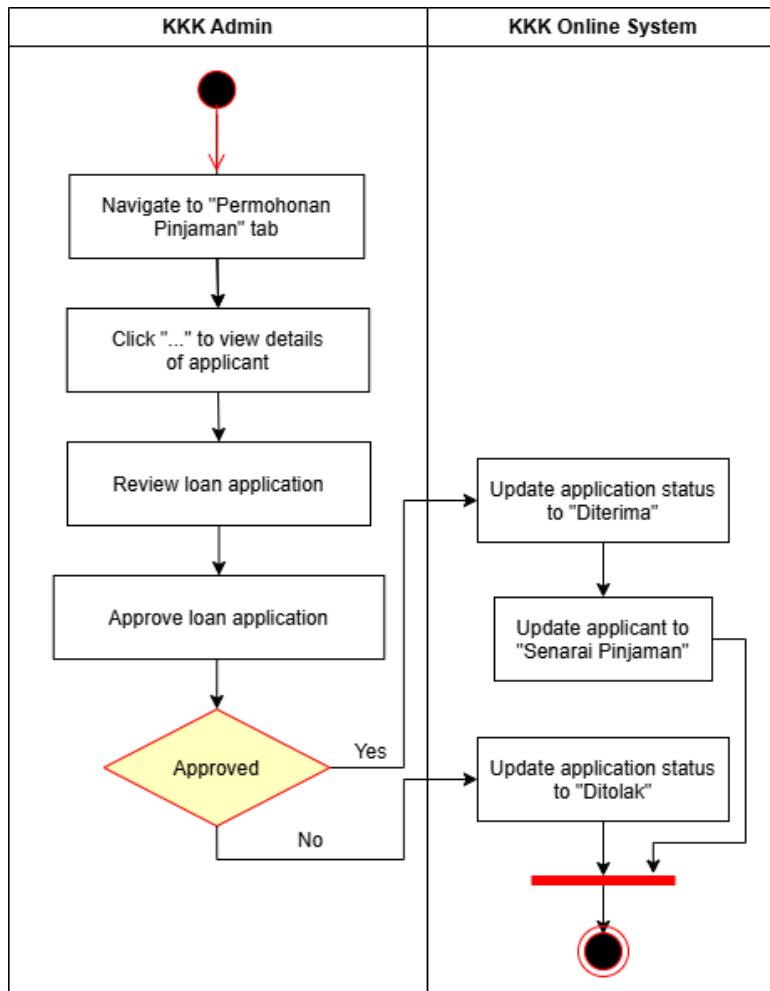


Figure 2.22: Activity Diagram for KKK Admin Approve Loan Application

2.4.10 US10 User Story KKK Admin Generate Reports

Table 2.12 shows the user story description, followed by the sequence diagram in Figure 2.23 and the activity diagram in Figure 2.24.

Table 2.12: User Story Description for KKK Admin Generate Reports

User story: KKK Admin Generate Reports
ID: US10
User Story Description: As a KKK admin I want to generate reports So that future decisions can be made for the cooperative

Flow of events:

1. Admin navigates to the “Laporan” tab.
2. Admin selects the report type, either monthly or annual and specifies the time frame.
3. System retrieves relevant data from the database, including new member applications, loan applications, fees claimed and contributions claimed.
4. System generates a financial summary and detailed breakdown of each category for the specified period.
5. System displays the report, providing options to view in detail, export or print the report.

Alternative flow:

If invalid time frame is selected, the system prompts the user to select the correct time frame.

Acceptance Criteria:

Precondition:

1. Admin logged in to the system.

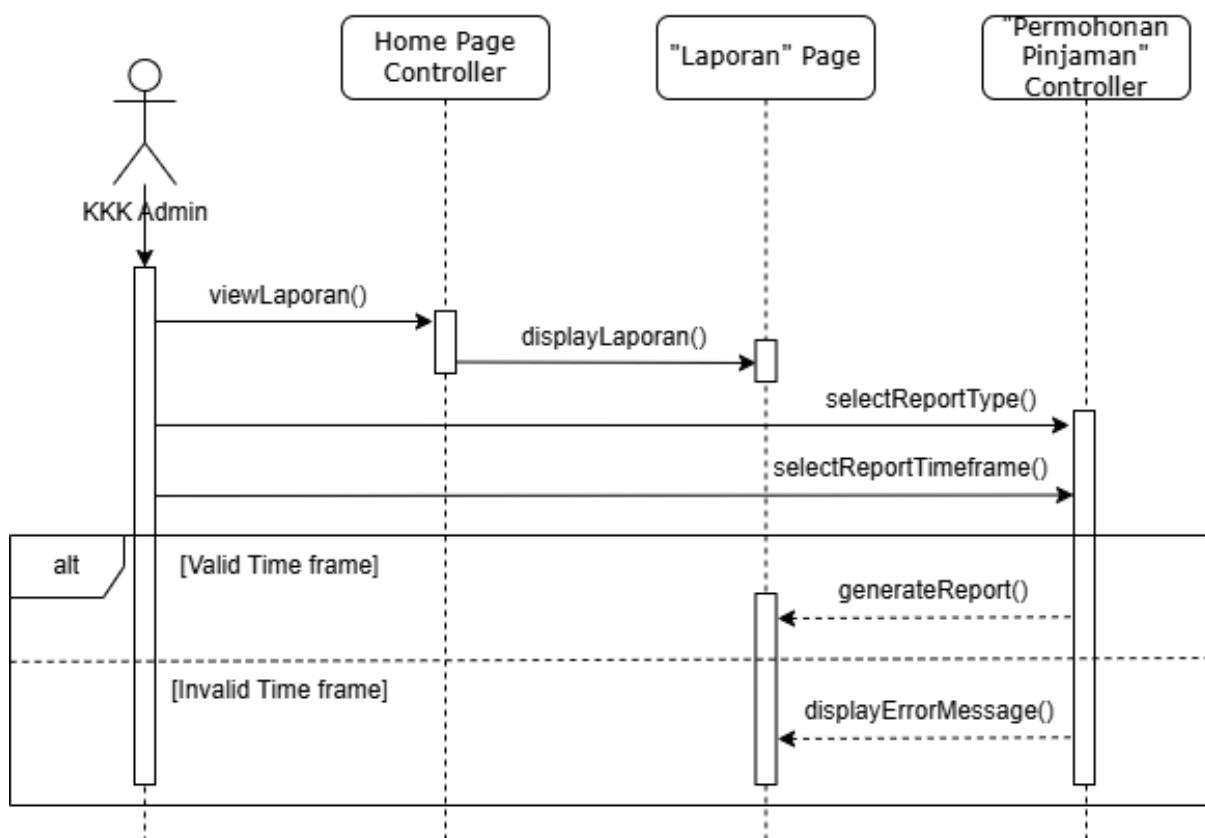
Exception flow: -

Figure 2.23: Sequence Diagram for KKK Admin Generate Reports

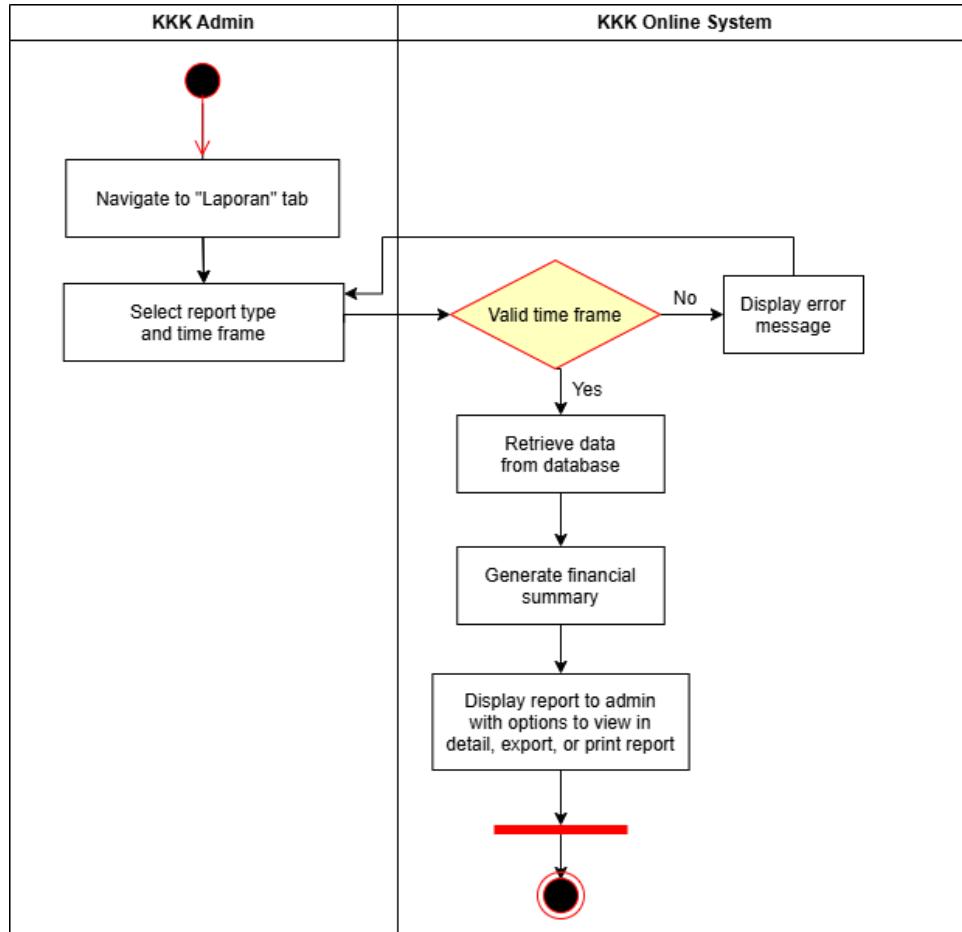


Figure 2.24: Activity Diagram for KKK Admin Generate Reports

2.4.11 US11 User Story KKK Admin Manage System

Table 2.13 shows the user story description, followed by the sequence diagram in Figure 2.25 and the activity diagram in Figure 2.26.

Table 2.13: User Story Description for KKK Admin Manage System

User story: KKK Admin Manage System
ID: US11
User Story Description: As a KKK admin I want to administer the system So that the information on the system can be updated.

Flow of events:

1. Record Transaction
 - 1.1 Admin navigates to the Record Transaction tab.
 - 1.2 The system displays the list of members.
 - 1.3 Admin searches and selects the member to be updated.
 - 1.4 The system displays the financial status of the member.
 - 1.5 Admin enters the amount to be added or subtracted.
 - 1.6 The system prompts a confirmation message
 - 1.7 Admin clicks “Ok”.
 - 1.8 The system updates the database and the transaction is recorded.
2. Update Policies
 - 2.1 Admin navigates to “Kemaskini Polisi”.
 - 2.2 System displays all policies.
 - 2.3 Admin clicks “Kemaskini” to update the relevant section.
 - 2.4 Admin updates the new values.
 - 2.5 Admin clicks “Simpan”.
 - 2.6 The system prompts a confirmation message.
 - 2.7 The admin clicks “Ok”.
 - 2.8 The system updates the database and the policies are updated.
3. Update Banners
 - 3.1 Admin navigates to “Kemaskini Iklan”.
 - 3.2 Admin uploads a new photo.
 - 3.3 Admin clicks “Kemaskini”.
 - 3.4 System prompts a confirmation message.
 - 3.5 The admin clicks “Ok”.
 - 3.6 The system updates the database and the banners are updated.

Alternative flow:

If “OK” is not selected, the system will not update the database.

Acceptance Criteria:

Precondition:

1. Admin logged in to the system.

Exception flow: -

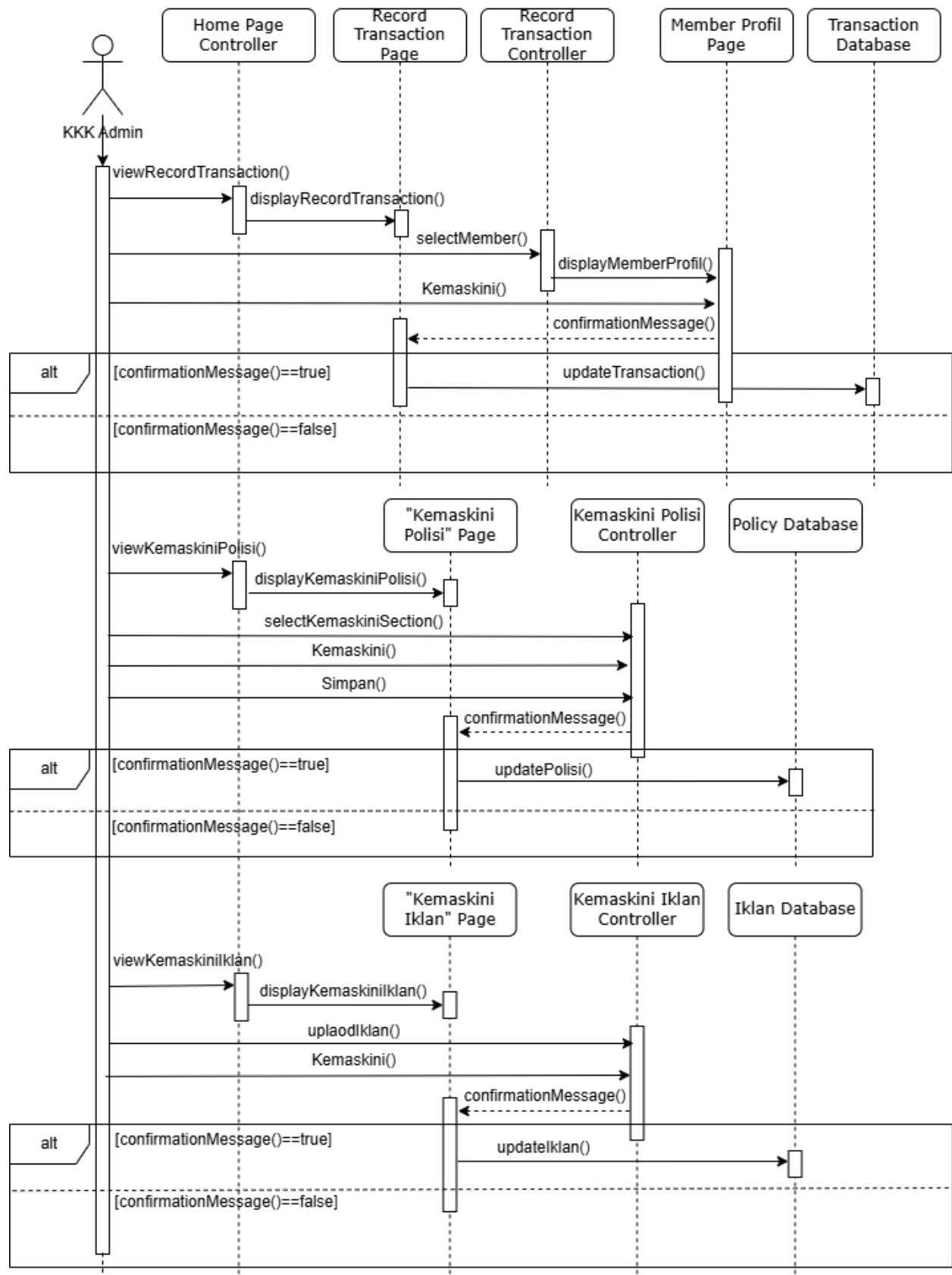


Figure 2.25: Sequence Diagram for KKK Admin Manage System

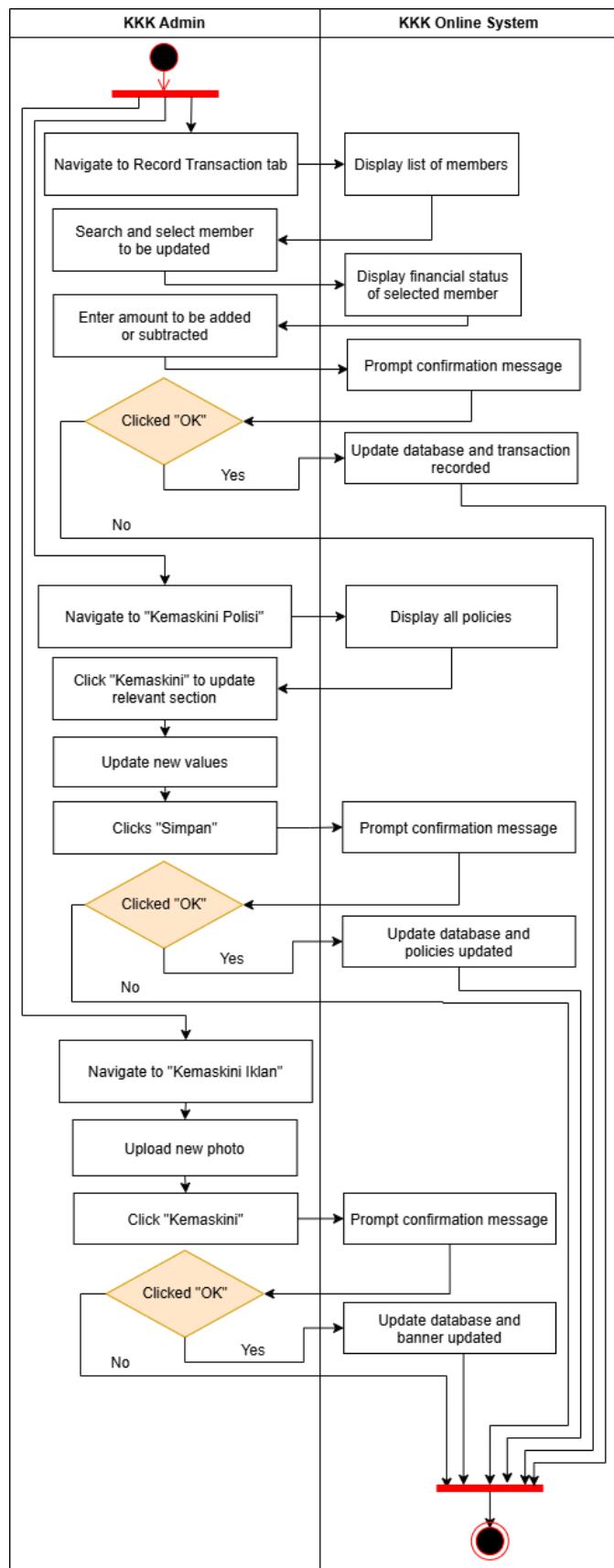


Figure 2.26: Activity Diagram for KKK Admin Manage System

2.4.12 US12 User Story KKK Admin Approve Membership Termination

Table 2.14 shows the user story description, followed by the sequence diagram in Figure 2.27 and the activity diagram in Figure 2.28

Table 2.14: Use Story Description for Approve Membership Termination

Use case: Approve Membership Termination
ID: UC12
Actor: Admin
Precondition: <ul style="list-style-type: none">● Admin logged in to the system.
Flow of events: <ol style="list-style-type: none">1. Admin navigates to “Permohonan Berhenti Menjadi Anggota”.2. Admin clicks “...” to view more about the applications.3. Admin reviews the membership termination applications.
Alternative flow: <ol style="list-style-type: none">1. If approved, the system updates the application status to “Diterima.”2. If rejected, the system updates the application status to “Ditolak.”
Postcondition: <ul style="list-style-type: none">● When the membership termination applications’ status is updated to “Diterima” status, the applicant will be updated to “Senarai Anggota Lepas” and the member status will be changed to “Berhenti”.
Exception flow: -

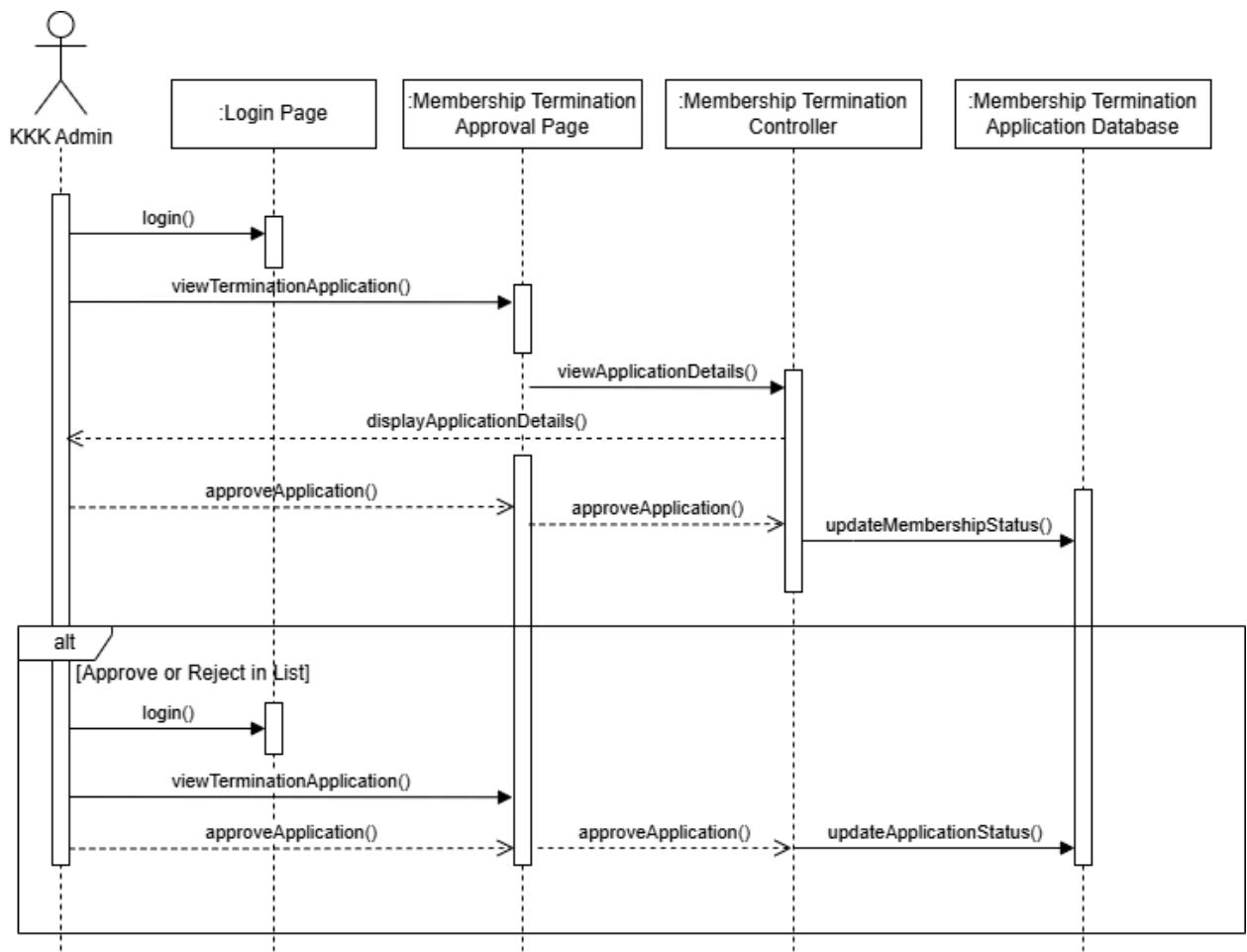


Figure 2.27: Sequence Diagram for Approve Member Termination

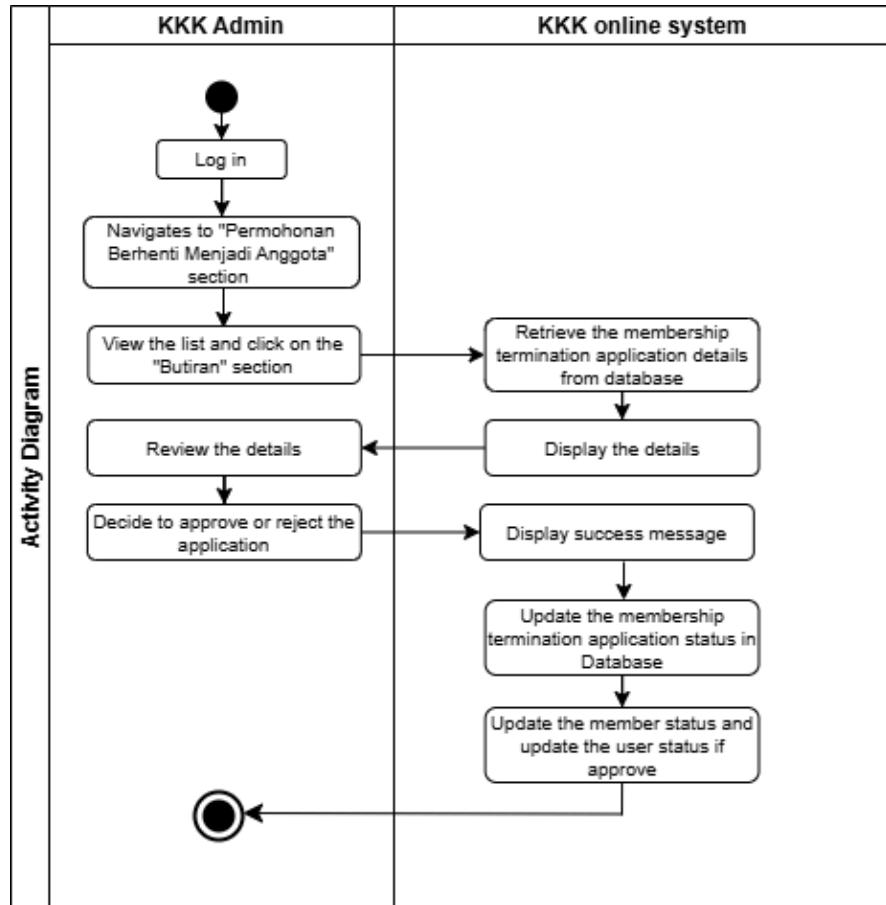


Figure 2.28 Activity Diagram for Approve Membership Termination

2.5 Performance and Other Requirements

This section defines the way systems behave or operate, separated from functional requirements. The characteristics and quality attributes are specified such as usability, reliability, performance, security, maintainability, and compatibility.

2.5.1 Software System Attributes

Software system attributes specify the overall qualities or characteristics that are expected to achieve in the system. These attributes are the foundation of the KKK Online System, as stated below:

1. Acceptability: System must be compatible with different operating systems such as Windows, macOS, Linux, and mobile devices like iOS and Android. System must be adaptable with all device types, including workstations, laptops, tablets and smartphones.
2. Correctness: The system must fully meet its requirements specifications, with any deviation from the requirements considered as incorrect.
3. Reliability: Systems should be reliable, failures should be minimised and issues that could lead to software failure should be addressed.
4. Usability: System should be easy to use, be learnable to beginners, convenient, and effective in handling errors.

2.5.2 Performance

This section defines the software system response time of user actions under a certain workload, throughput and resource usage.

1. System shall be able to maintain 99.9% uptime, making it always available for corporate users. Service interruption or temporal shut down such as maintenance or update should be minimised or communicated beforehand.
2. System response time should be at most 1 seconds under normal loads.
3. System should be able to support at least 100 active user sessions at the same time and multiple user sessions should not slow down response time.
4. The system must retrieve member data within 1 second of a search query under normal load with up to 50 concurrent queries.

2.5.3 Other Requirements

Localisation Requirements

- The system is used exclusively for the KKK, and the cooperative is in Malaysia.
- Languages supported: Malay only.
- Date formats: DD/MM/YYYY
- Time zone adjustment: UTC+8
- Currency: Ringgit Malaysia (RM)

2.6 Design Constraints

This section describes the design constraints of the system, which includes security constraints, safety constraints and the business rules that must be adhered to.

2.6.1 Security constraints

This section states the requirements regarding any security or privacy concerns surrounding use of the system and protection of the data used or collected. User identity authentication requirements are defined.

1. The system must have an automated data backup and recovery mechanism to prevent data lost. Regular backup should be scheduled and backup data are stored in a secure, offsite location.
2. Passwords of all users of the system must have a bit strength of at least 64 bit, that is at least 6 characters long and includes a mix of uppercase and lowercase letters, numbers, and special symbols.
3. Wireless communication throughout the system will be encrypted using TLS 1.3 at the application layer and WPA2-Enterprise at the data link layer.
4. The system shall provide two level of access:
 - An administrator level for unrestricted access to all system functionality.
 - A member layer for access to member functionality only.

2.6.2 Safety constraints

This section specifies the requirements that are concerned with possible loss, damage or harm that could result from the usage of the system.

1. System should ensure all personal and financial data collected during membership registration or loan applications is protected against unauthorized access by the General Data Protection Regulation (GDPR) and ISO/IEC 27001 standards.
2. All activities should be logged and able to retrace back, to provision recovery from system failure. All logs must be protected against unauthorised changes, and can only be accessed by authorised personnel for maintenance purposes.
3. The system must be capable of restoring itself to the nearest previous state if an error occurs, for example system crash or a connectivity loss.

2.6.3 Business Rule

This section defines the policies and constraints the system must adhere to, and functions specific to roles that aligns with the organisational practices.

1. Only the admin can modify loan repayment terms and policies.
2. Accessing member personal information is limited to admin authority. System should restrict access to member data by non admin role, except every member is able to view and modify their own personal data.

3. Architectural Rationale

This section describes the chosen architectural style for the KKK Online System, along with the justification for its selection. It also includes the component diagram to illustrate the system's structure.

3.1 Architecture Style and Rationale

Layered architecture has been selected as the KKK Online System's architectural style. The system is divided into separate sections by the layered architecture, including user interface, user interface management, core business logic and data access layer. Each layer can operate independently while communicating with the others through clearly defined interfaces.

The layered architecture ensures that tasks are clearly separated, with the Presentation layer handling the user interface, Business Logic controlling processes, Data Access handling data retrieval and the Database Layer organizing storage. The system is scalable, maintainable and reusable according to its architecture. In addition to supporting desktop, it improves security for sensitive processes such as loan applications and member data by separating the data access layer. Component diagram of this system shown as Figure 3.0.

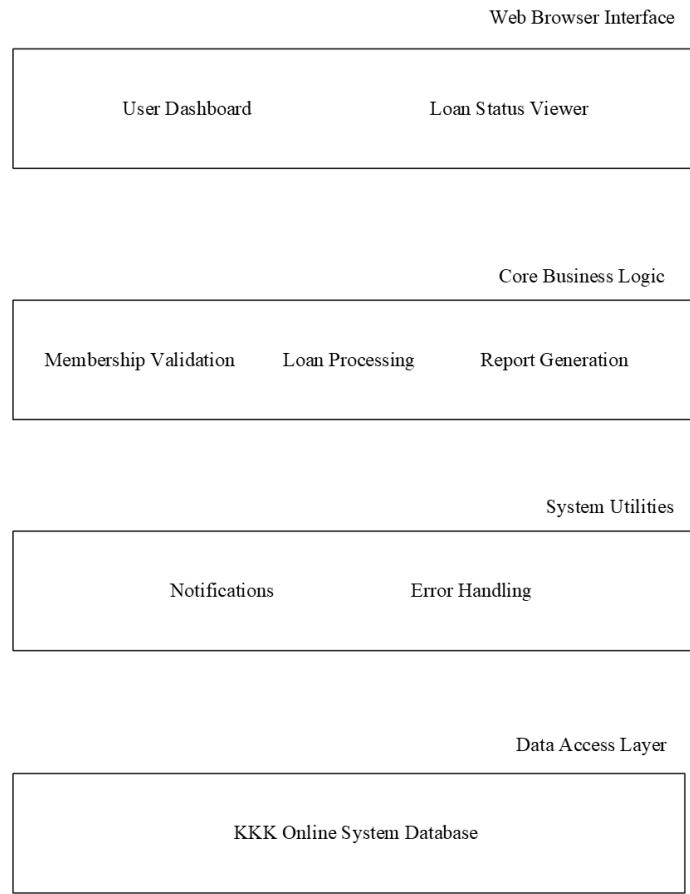


Figure 3.0: Architecture Diagram

4. Architectural Views

This section describes the architectural views of the system based on the 4+1 View Model of Architecture. The views consist of 4 views which are logical view, development view, process view, and physical view. Each view is represented by different diagrams.

Table 4.1 Architectural Views for KKK Online System

Architectural Views	Description	Diagrams used
Use Case View	Elements in four views are coordinated using scenarios in the use cases.	Use Case Diagram
Logical View	Logical View focuses on the system's structure from the developer's view. This view shows the main components of the system in object-oriented design using Class Diagrams.	Class Diagram
Process View	Process view highlights the dynamic aspects of the system, focusing on how the system's components collaborate with each other during runtime by illustrating how the system's processes communicate with each other.	Sequence Diagram
Development View	Development view shows the grouping of the system's software modules in its development environment. It focuses on how the system is broken down into several parts for implementation.	Architecture Diagram Package Diagram
Physical View	Physical View describes how the software system is deployed on the hardware infrastructure, representing its physical architecture. This diagram helps to visualize the relationship between hardware and software, ensuring proper deployment and performance optimization.	Deployment Diagram

4.1 Use Case View

This Use Case View connects with the other 3 views so that the Architecture View of the system is consistent and complete. This view shows the functional requirements of the system using the Use Case Diagram. Figure 4.2 shows the use case diagram of the system.

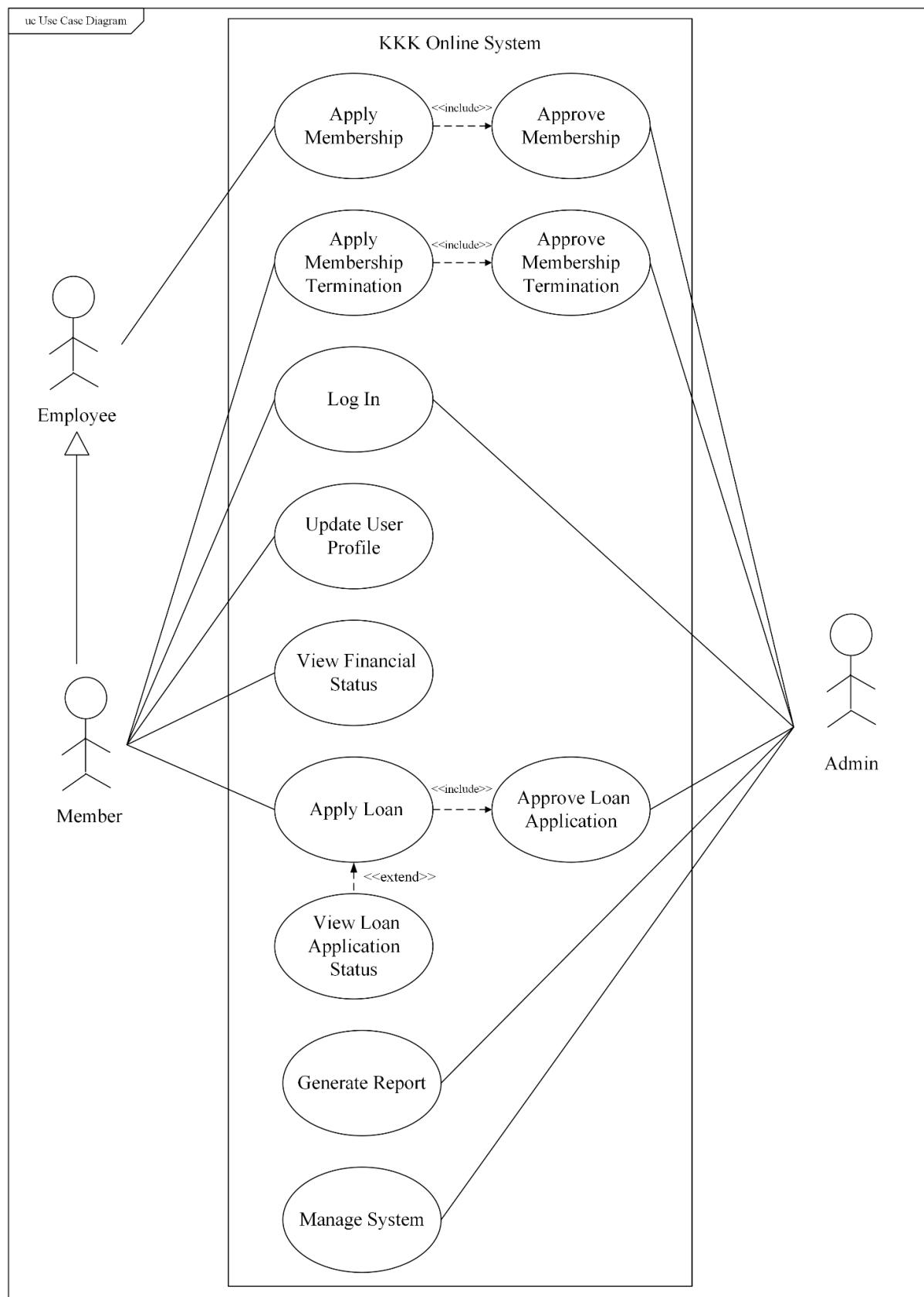


Figure 4.2 Use Case Diagram for KKK Online System

4.2 Development View

This Development View shows the grouping of the system's software modules in its development environment. It focuses on how the system is broken down into several components for implementation.

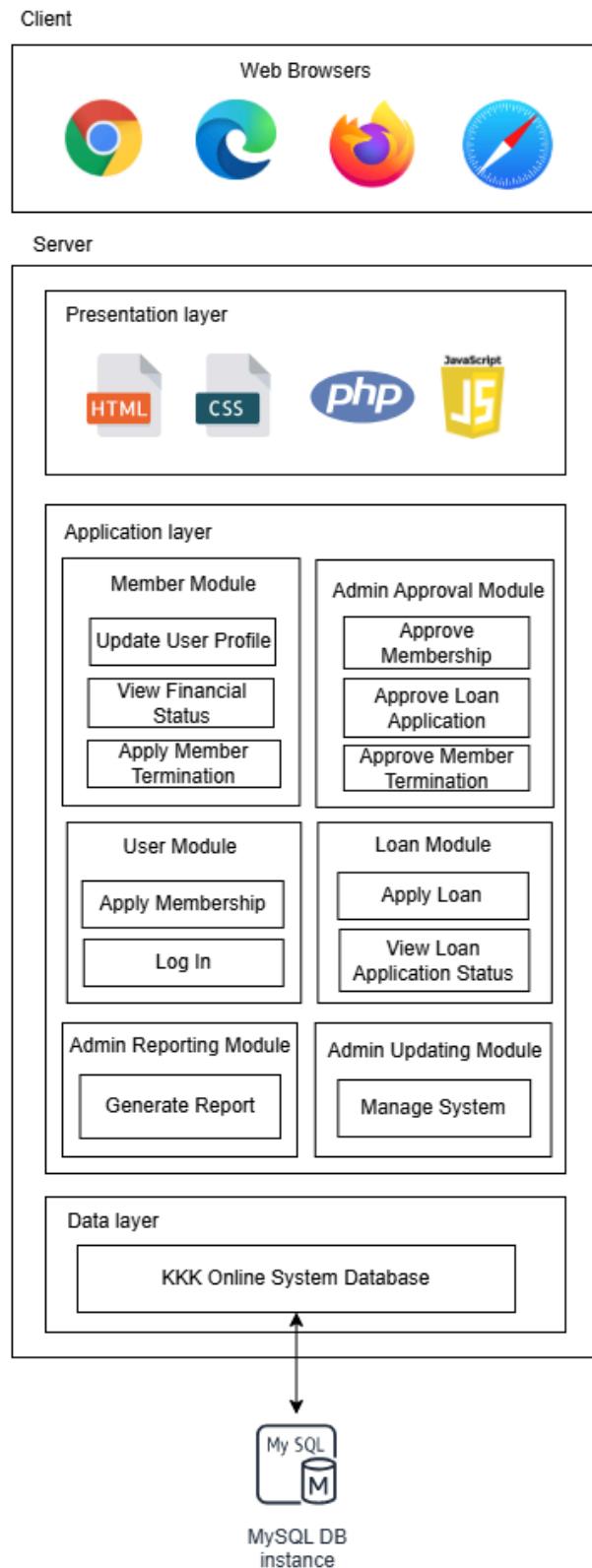


Figure 4.3 Architecture Diagram for KKK Online System

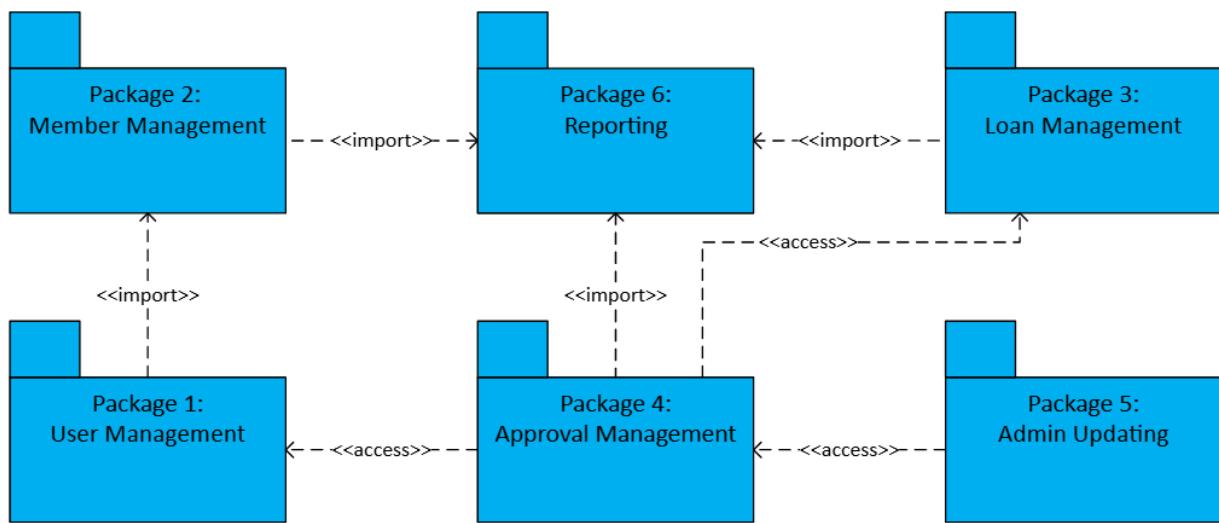


Figure 4.4 Package Diagram for KKK Online System

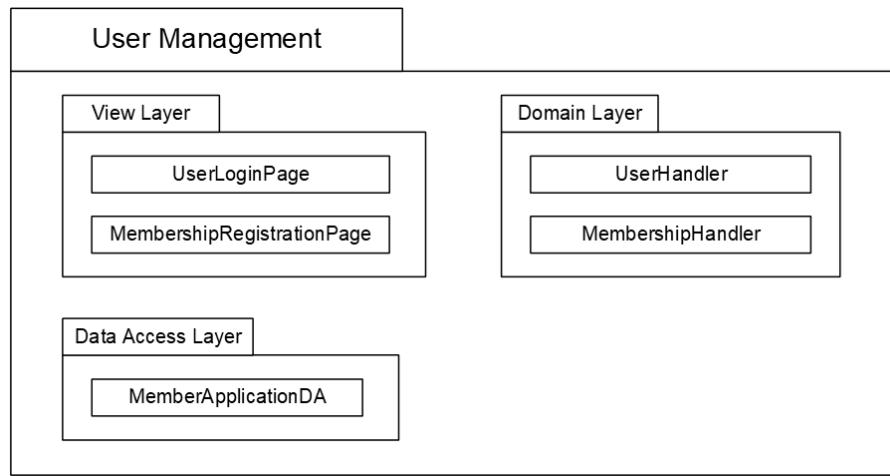


Figure 4.5 Package Diagram 1 for User Management Subsystem

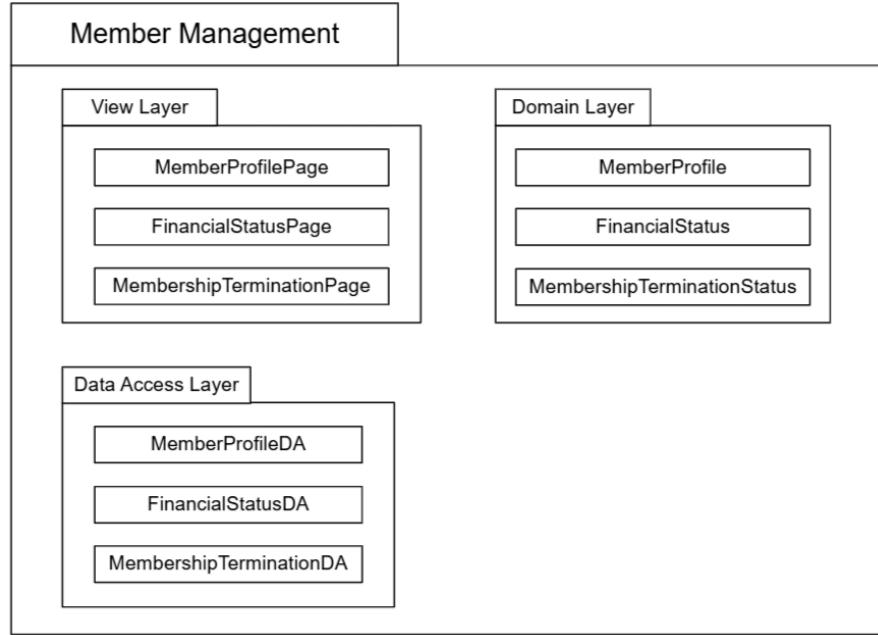


Figure 4.6 Package Diagram 2 for Member Management Subsystem

Figure 4.7 shows a loan management subsystem that consists of three main layers: view layer, domain layer and data access layer. The view layer includes the LoanApplicationPage and LoanStatusPage, which provide a user interface for submitting loan applications and tracking their status. The domain layer handles the core business logic, consisting of LoanApplicationHandler, LoanApplication and Transaction components that process loan requests and manage transactions. The data access layer includes LoanApplicationDA and TransactionDA, which facilitate data storage and retrieval from the database.

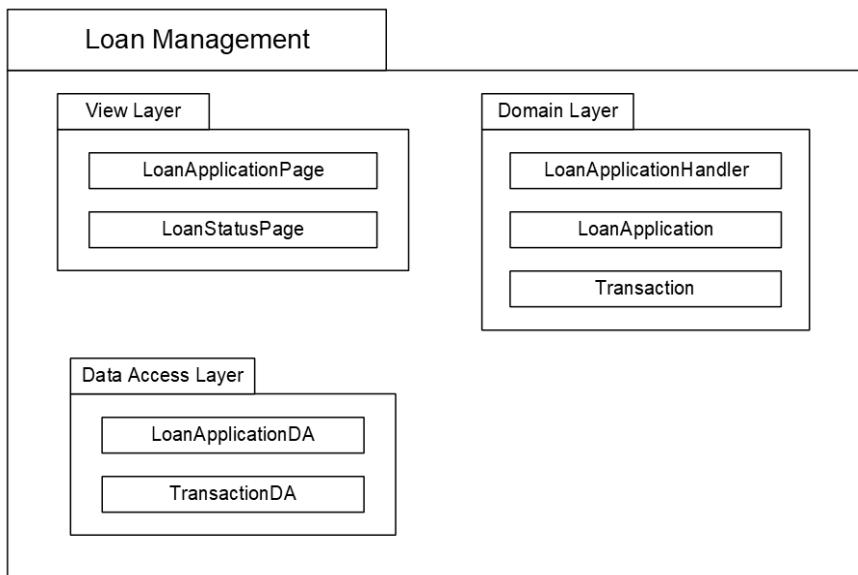


Figure 4.7 Package Diagram 3 for Loan Management Subsystem

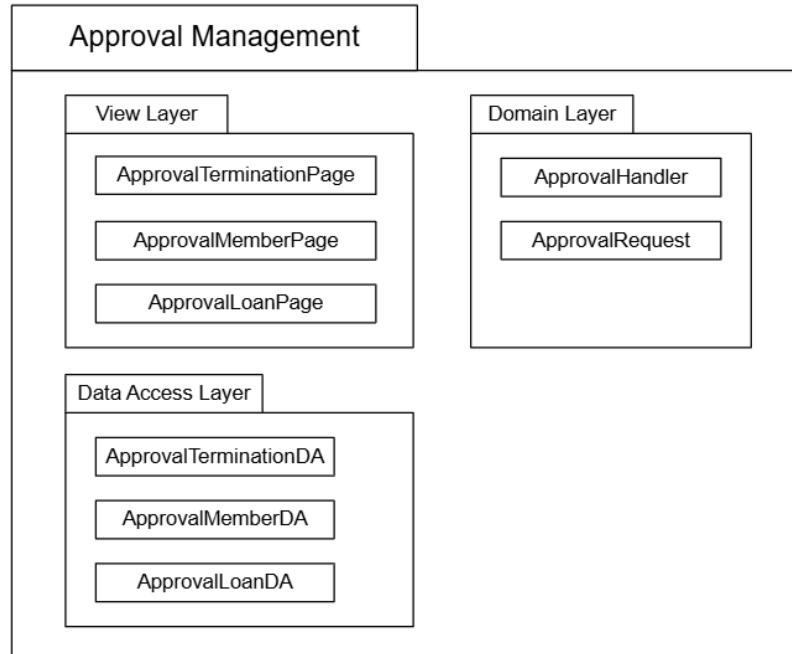


Figure 4.8 Package Diagram 4 for Approval Management Subsystem

Figure 4.9 shows the admin updating subsystem where the admin can view the dashboard, update the policies, banners and manage user financial statuses. The view layer includes the AdminDashboard, AdminBannerManagementPage, AdminPolicyManagementPage and AdminTransactionManagementPage, which provide a user interface for the actions aforementioned. The domain layer handles the core business logic, consisting of AdminHandler, BannerHandler, PolicyHandler and TransactionHandler components that process the operations. The data access layer include MemberDA, FinancialDA, LoanDA, PolicyDA and BannerDA which facilitate data storage and retrieval from the database.

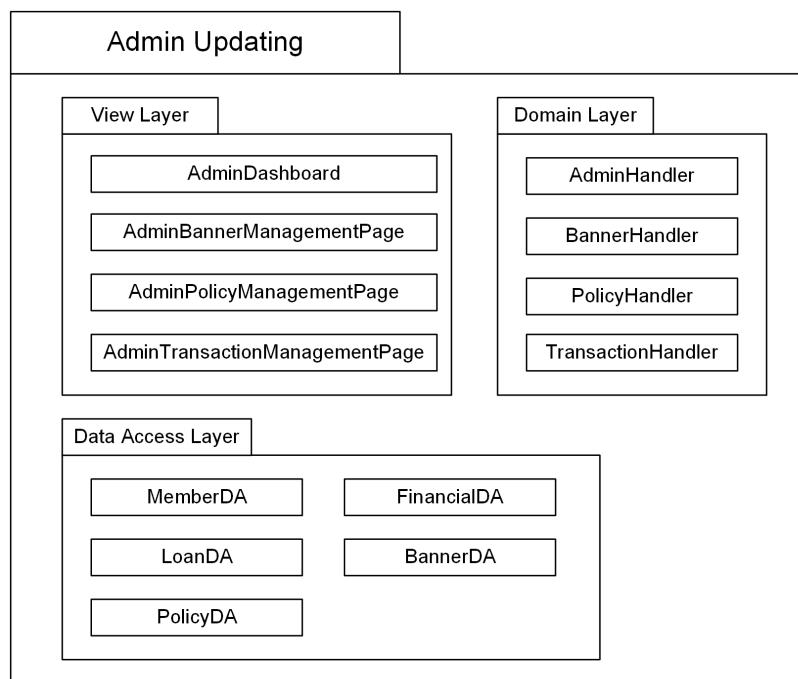


Figure 4.9 Package Diagram 5 for Admin Updating Subsystem

Figure 4.10 shows a reporting subsystem that consists of three layers: view layer, domain layer and data access layer. The view layer includes ReportGeneratorPage, ReportDetailsPage and ReportHistoryPage, which provide user interface for report. The domain layer handles the core business logic, consisting of ReportHandle, ReportGeneretor and Report components that process report requests. The data access layer includes ReportDA, ReportGeneratorDA, ReportHistoryDA, which facilitate data storage and retrieval from the database.

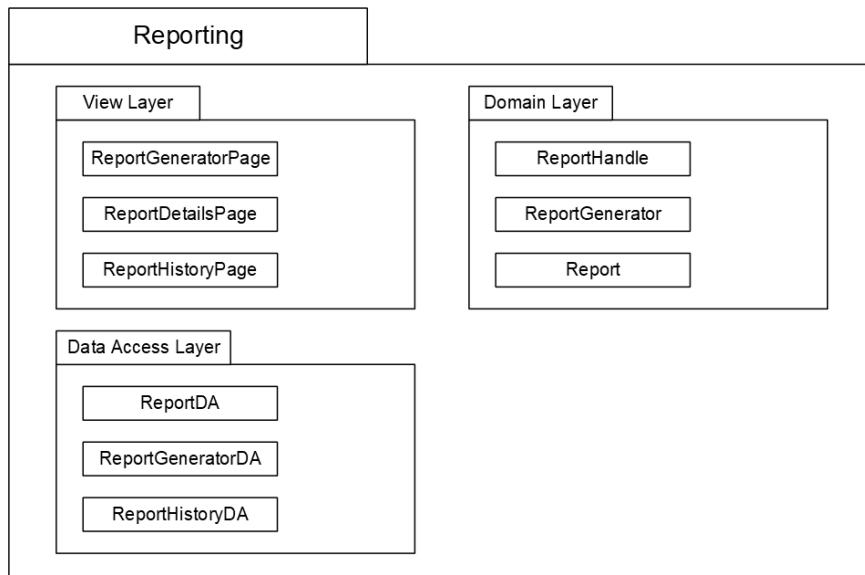


Figure 4.10 Package Diagram 6 for Reporting Subsystem

4.3 Logical View

This Logical View focuses on the system's structure from the developer's perspective. This view shows the key components of the system in object-oriented design using Class Diagrams.

The domain model of the KKK Online System is illustrated in Figure 4.11 below.

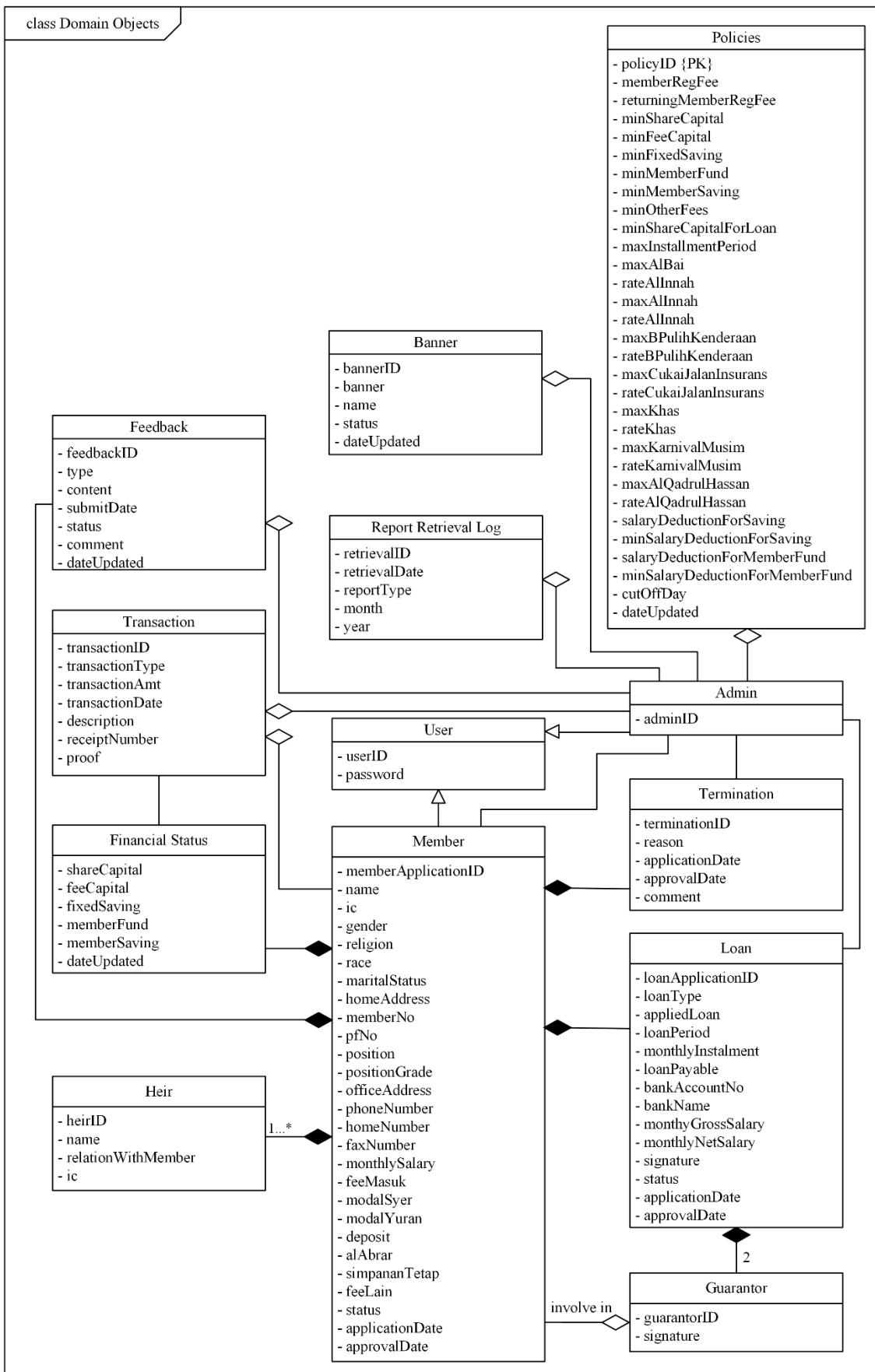


Figure 4.11 Class diagram for KKK Online System

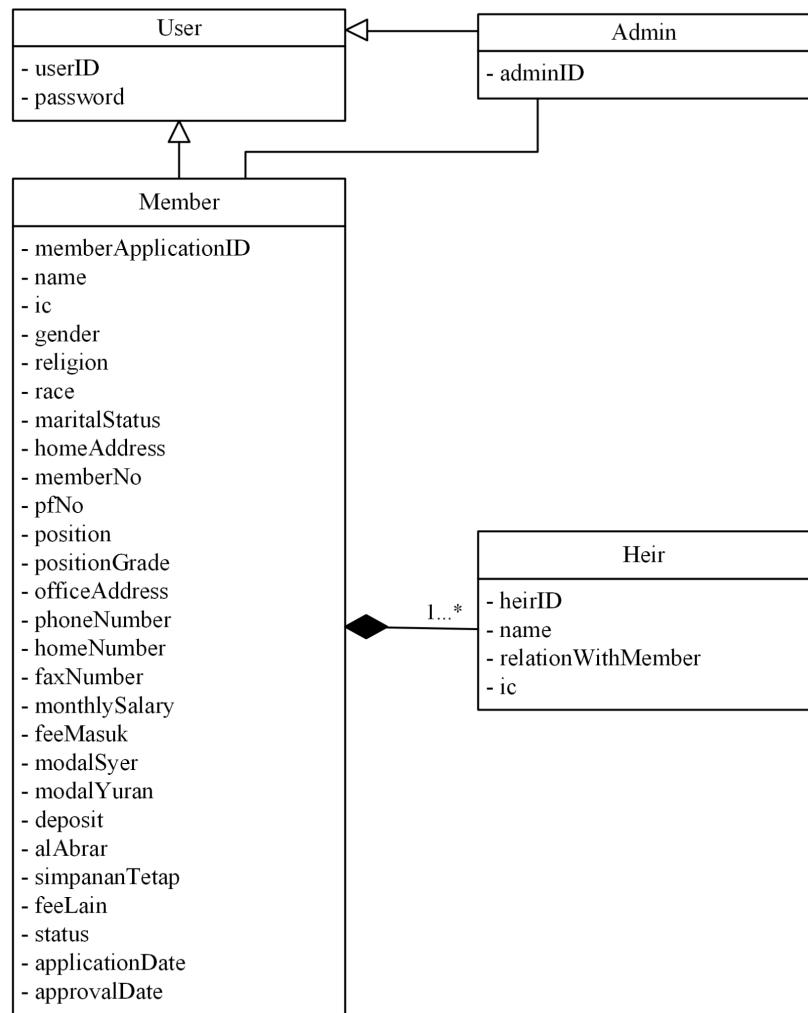


Figure 4.12 Class Diagram for User Module

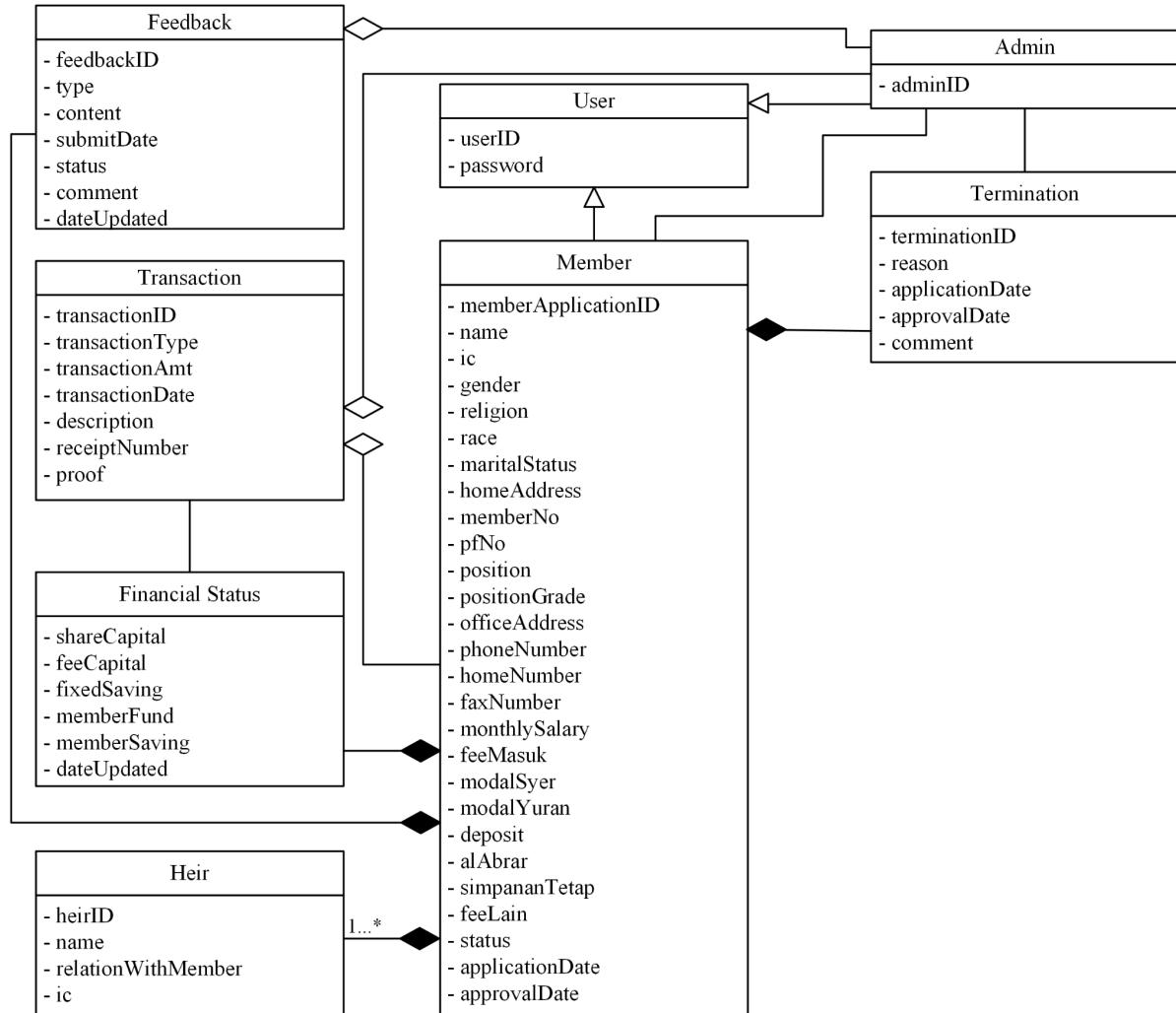


Figure 4.13 Class Diagram for Member Module

Figure 4.14 shows class diagram for loan module. The user class serves as a base for both member and admin, where members can apply for loans and admin can approve the loans. The member class contains personal attributes such as memberApplicationID, name, position, monthlySalary, applicationDate and more. The loan class stores loan-specific details, including loanApplicationID, loanType, loanPeriod, monthlyInstalment, status and more. Each loan application requires two guarantors, which includes guarantorID and signature.

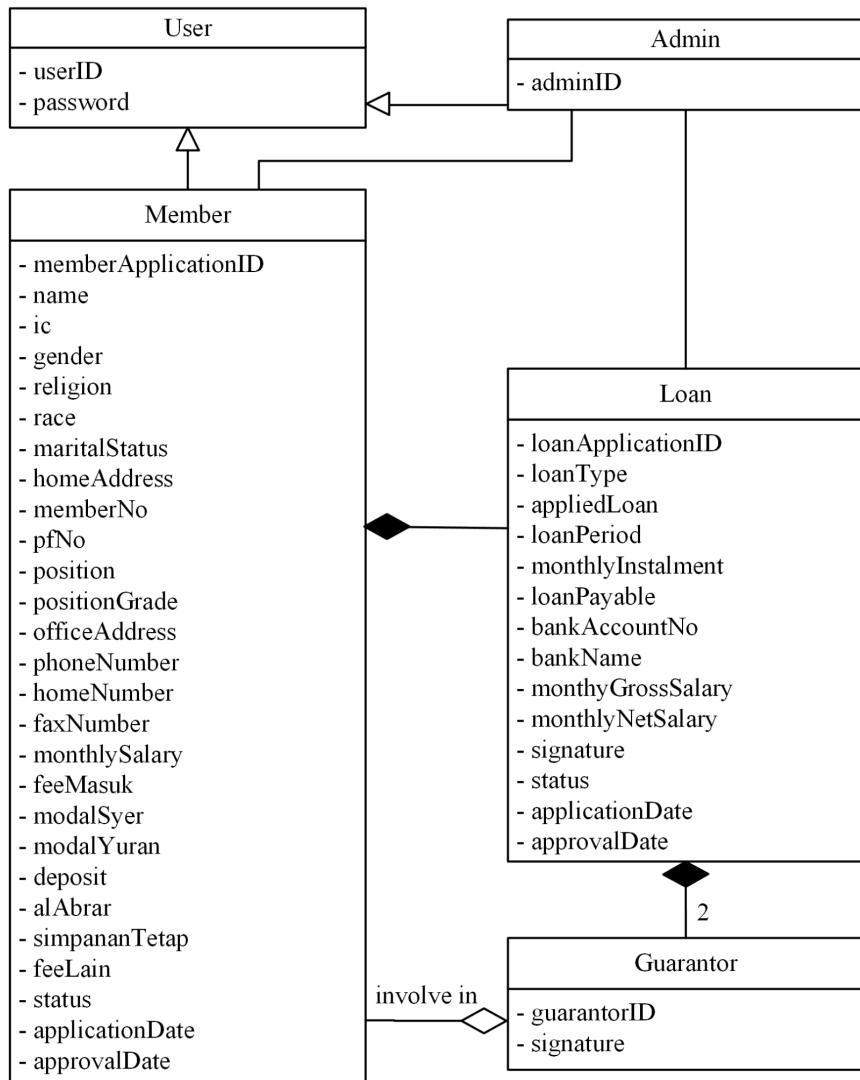


Figure 4.14 Class Diagram for Loan Module

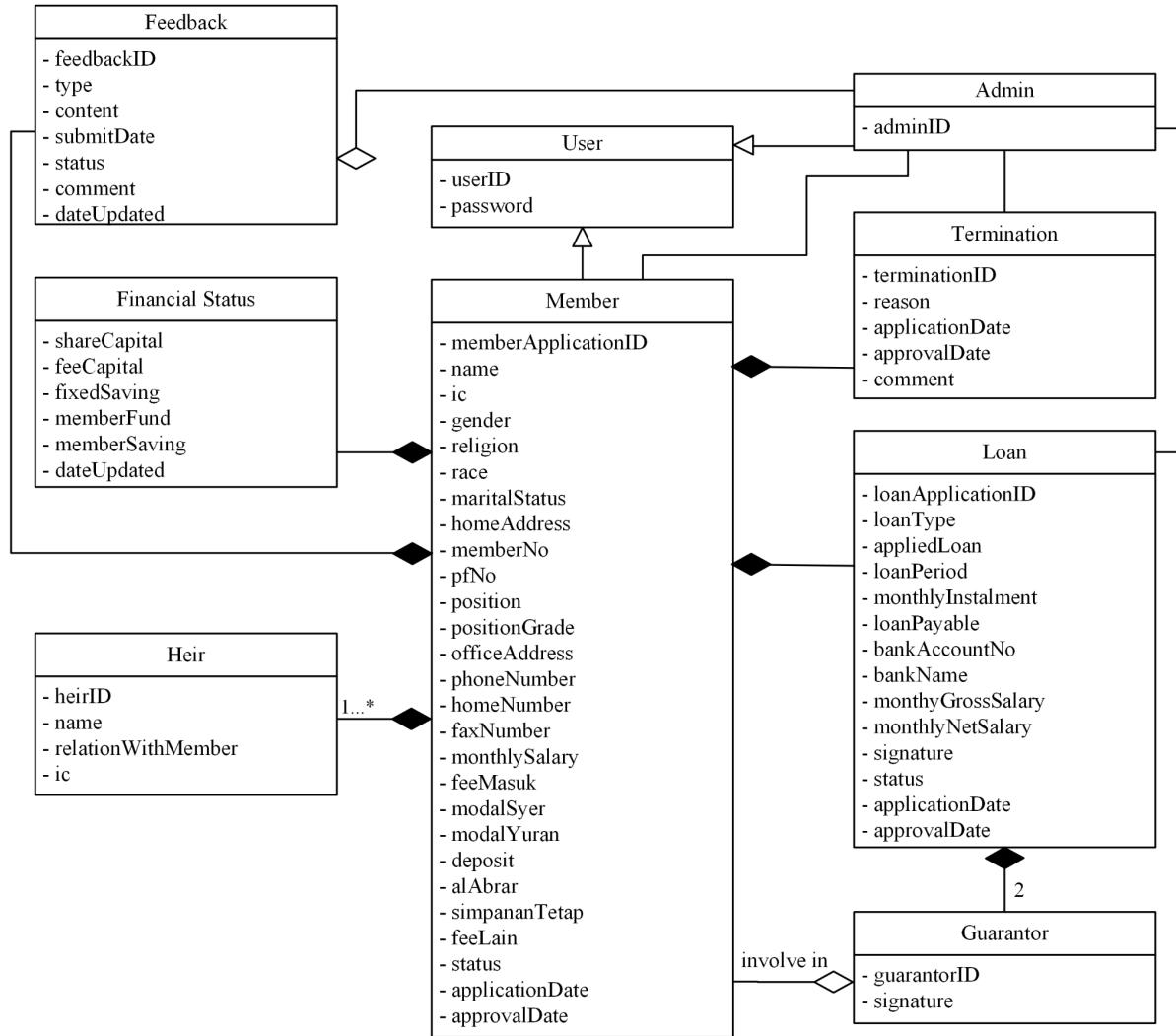


Figure 4.15 Class Diagram for Admin Approval Module

Figure 4.16 shows a class diagram for the admin updating module. The user class, inherited by admin and member, identifies the user and stores the member details. The loan class stores loan-related details, while the financial status and transaction classes manage member savings, funds and financial activities. The policies class defines many financial and loan-related rules. The banner class stores the banners.

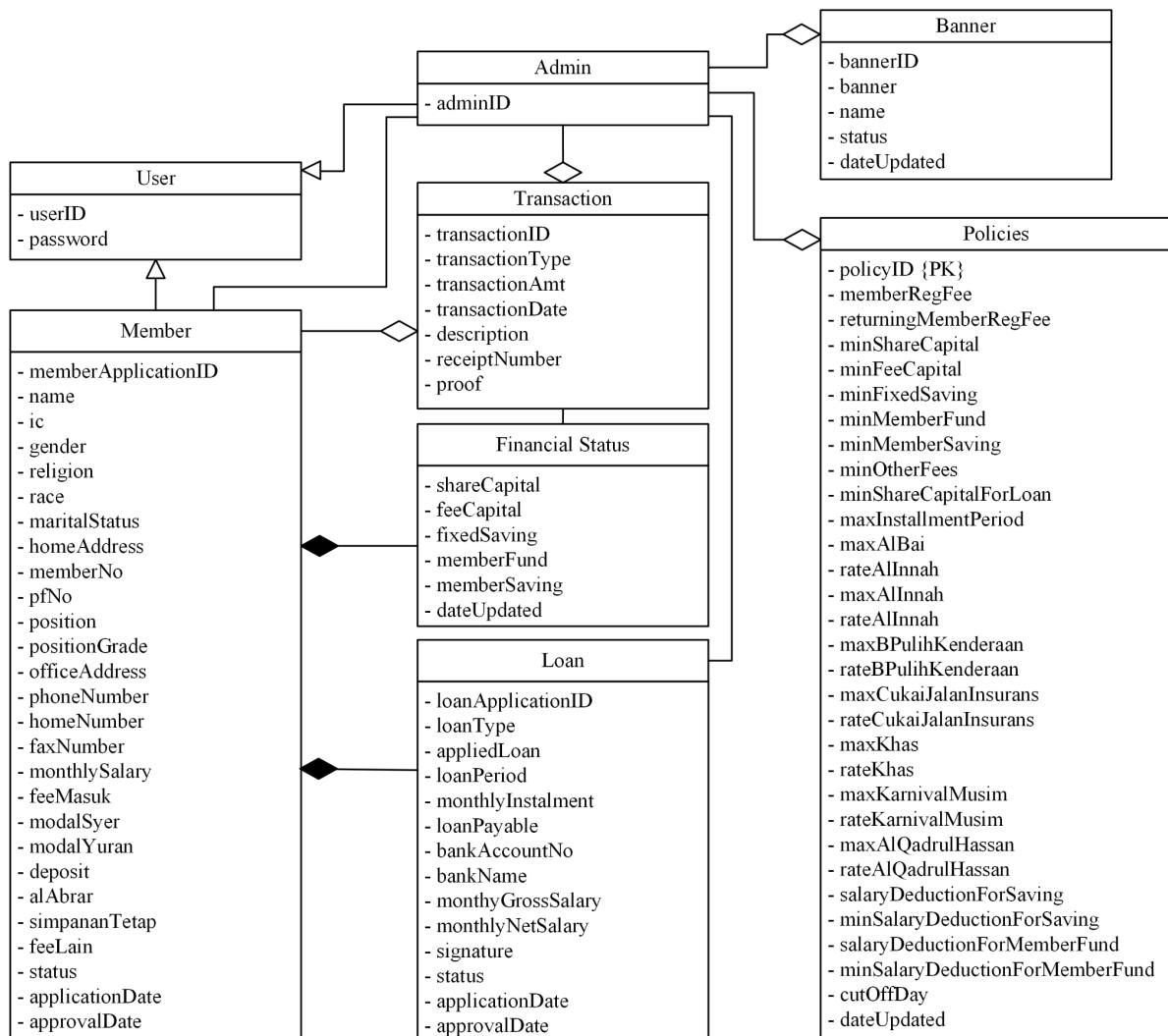


Figure 4.16 Class Diagram for Admin Updating Module

Figure 4.17 shows a class diagram for the admin reporting module. The user class, inherited by admin and member, ensures authentication and access control. The loan class stores loan-related details, while the financial status and transaction classes manage member savings, funds and financial activities. The policies class defines many financial and loan-related rules. The report retrieval log allows admins to generate reports based on different parameters, while the termination class handles member exit records.

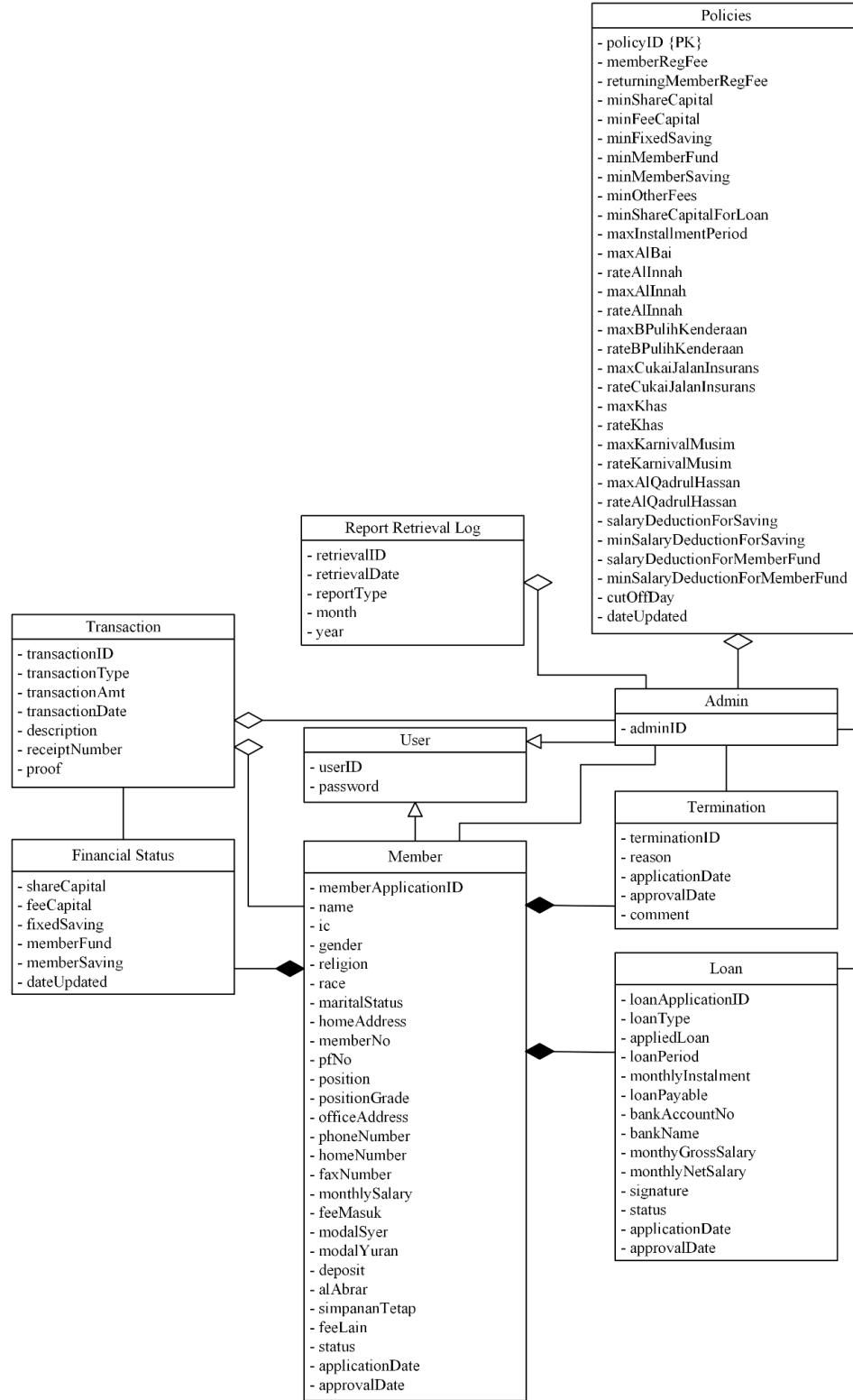


Figure 4.17 Class Diagram for Admin Reporting Module

4.4 Process View

This Process View shows the dynamic aspects of the system, focusing on how the system's components interact with each other at runtime. It illustrates how the system's processes communicate with each other.

User Module

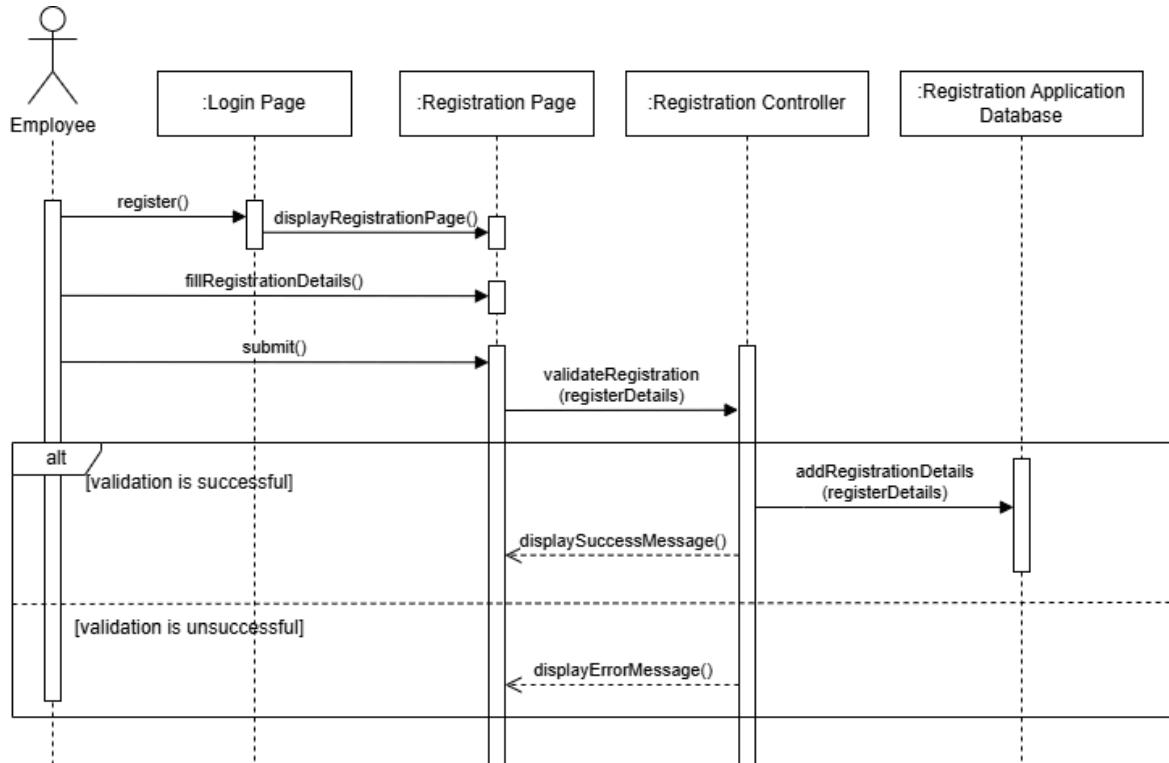


Figure 4.18: SD001 Sequence Diagram for Apply Membership

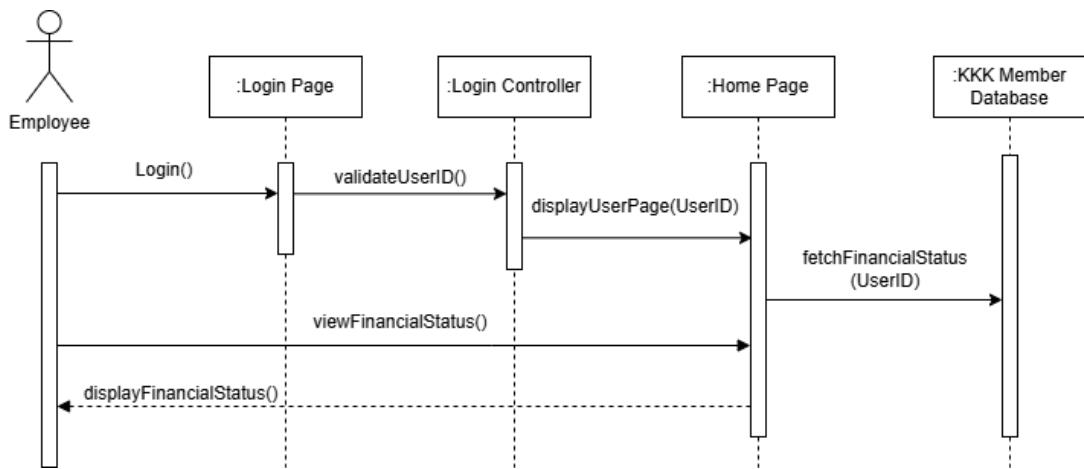


Figure 4.19: SD002 Sequence Diagram for Log In

Member Module

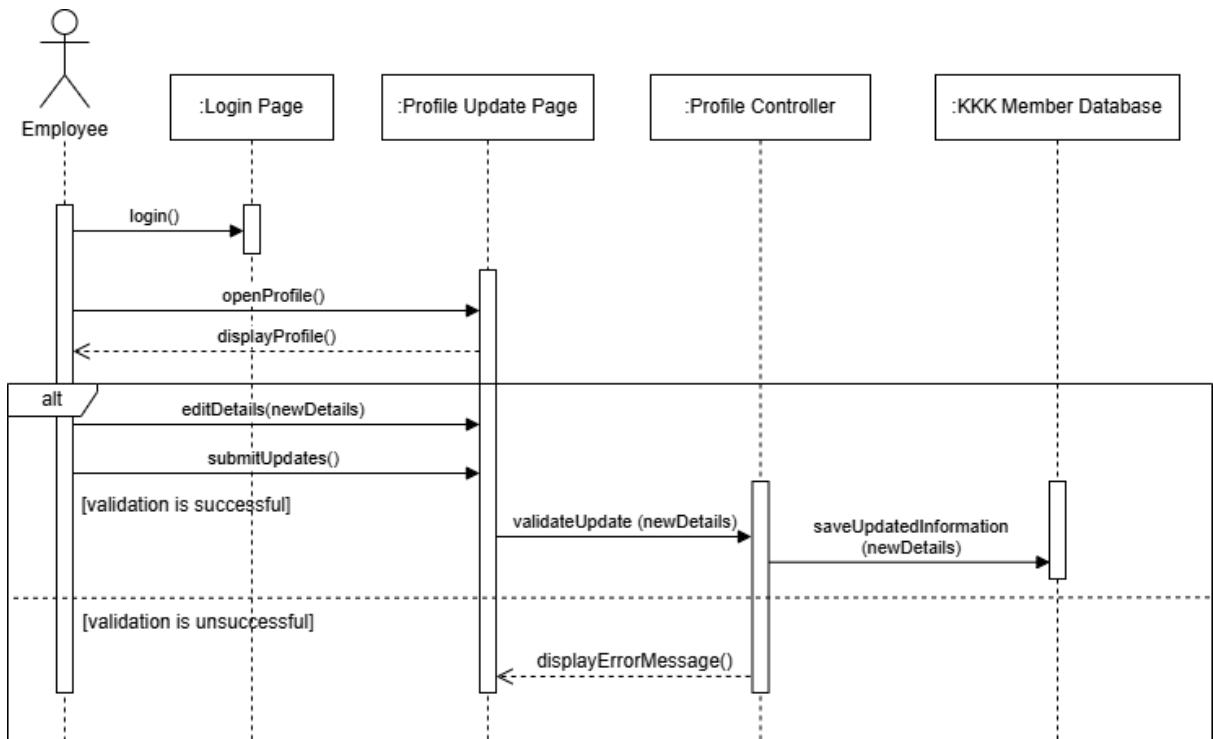


Figure 4.20: SD003 Sequence Diagram for Update User Profile

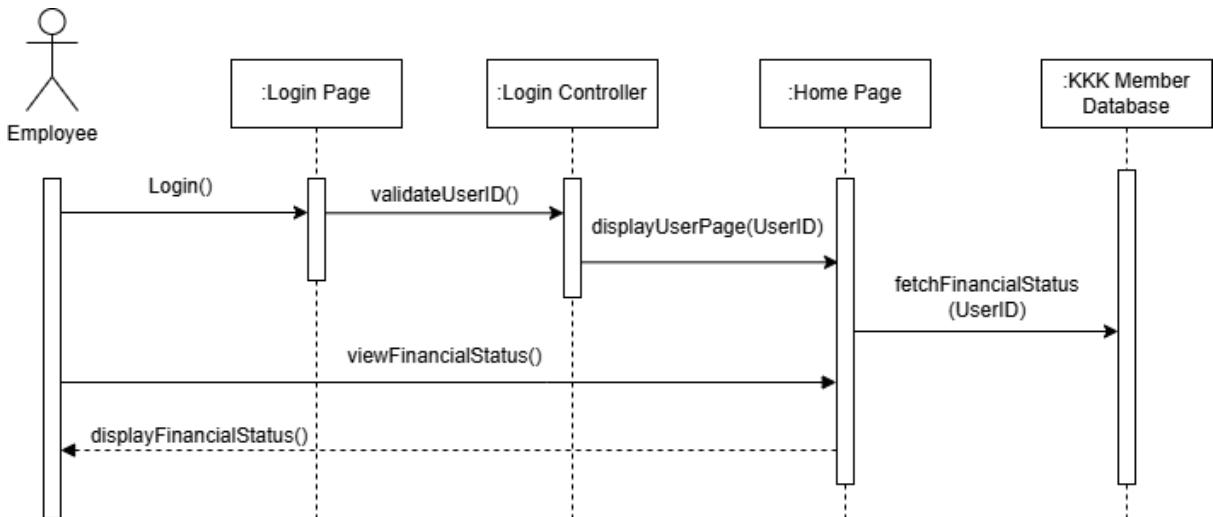


Figure 4.21: SD004 Sequence Diagram for View Financial Status

Loan Module

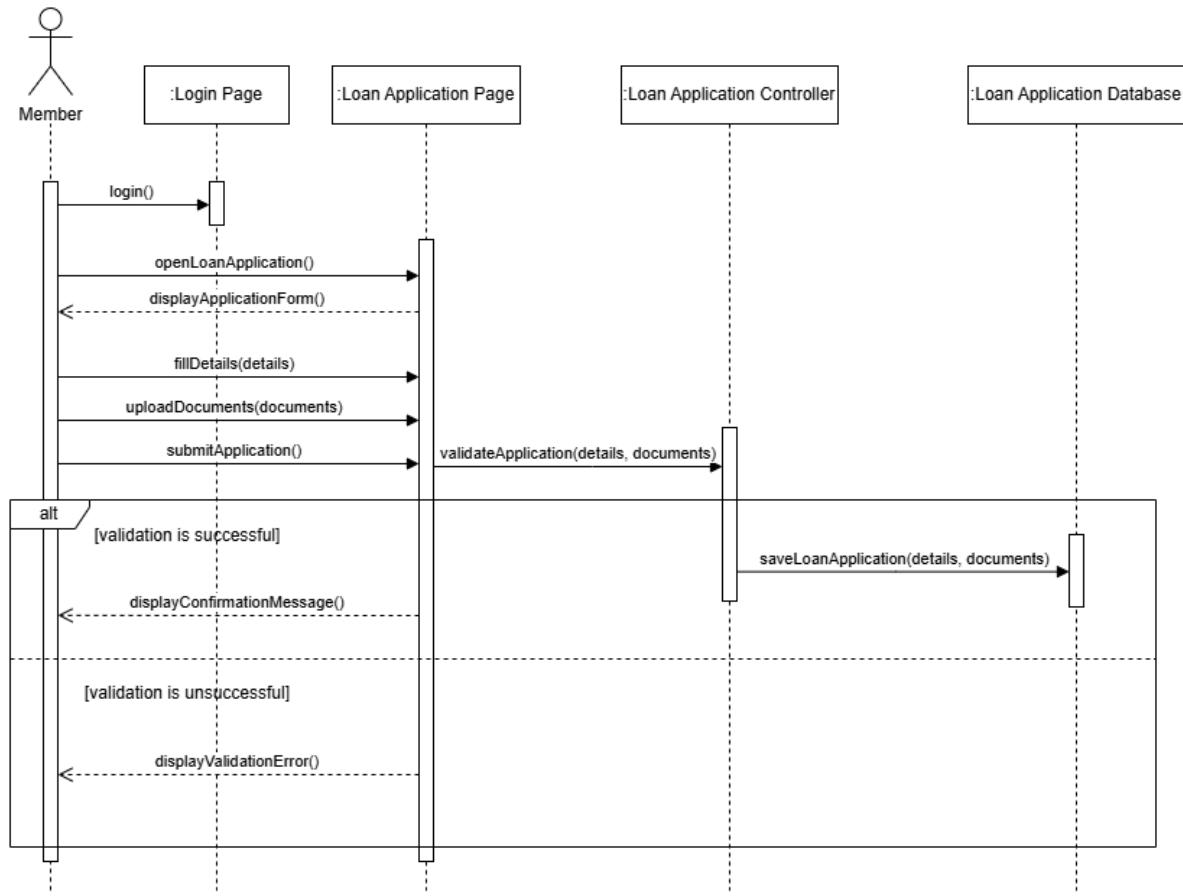


Figure 4.22: SD005 Sequence Diagram for Apply Loan

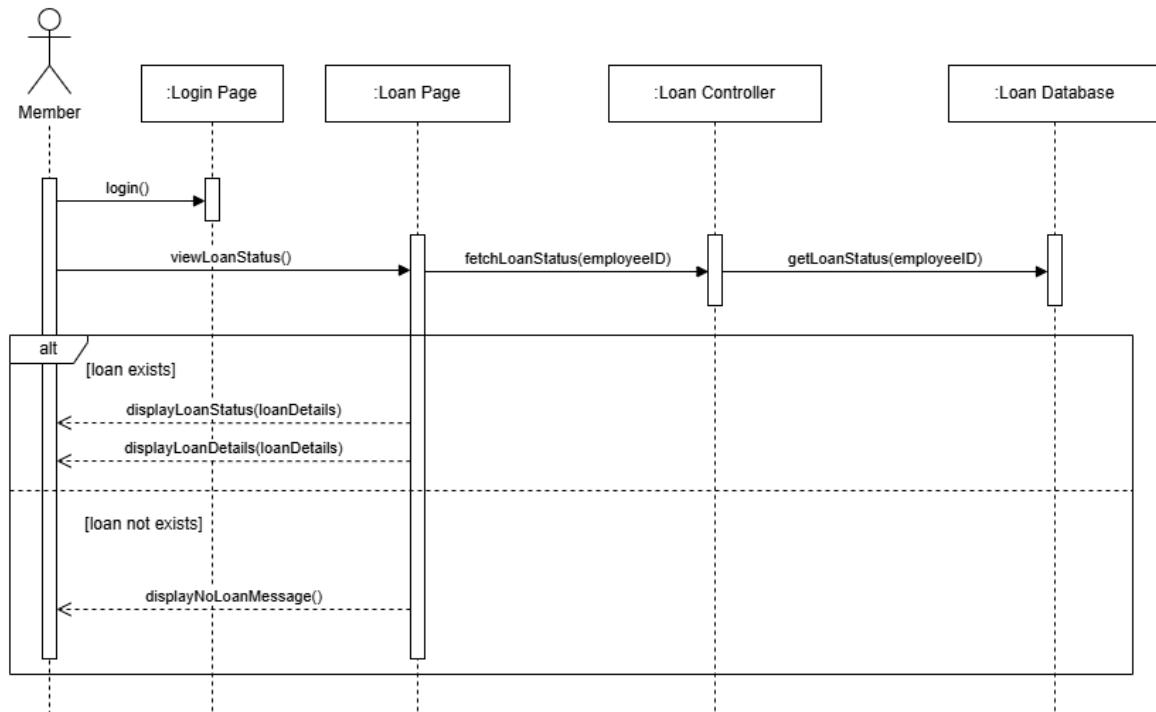


Figure 4.23: SD006 Sequence Diagram for View Loan Application Status

Admin Approval Module

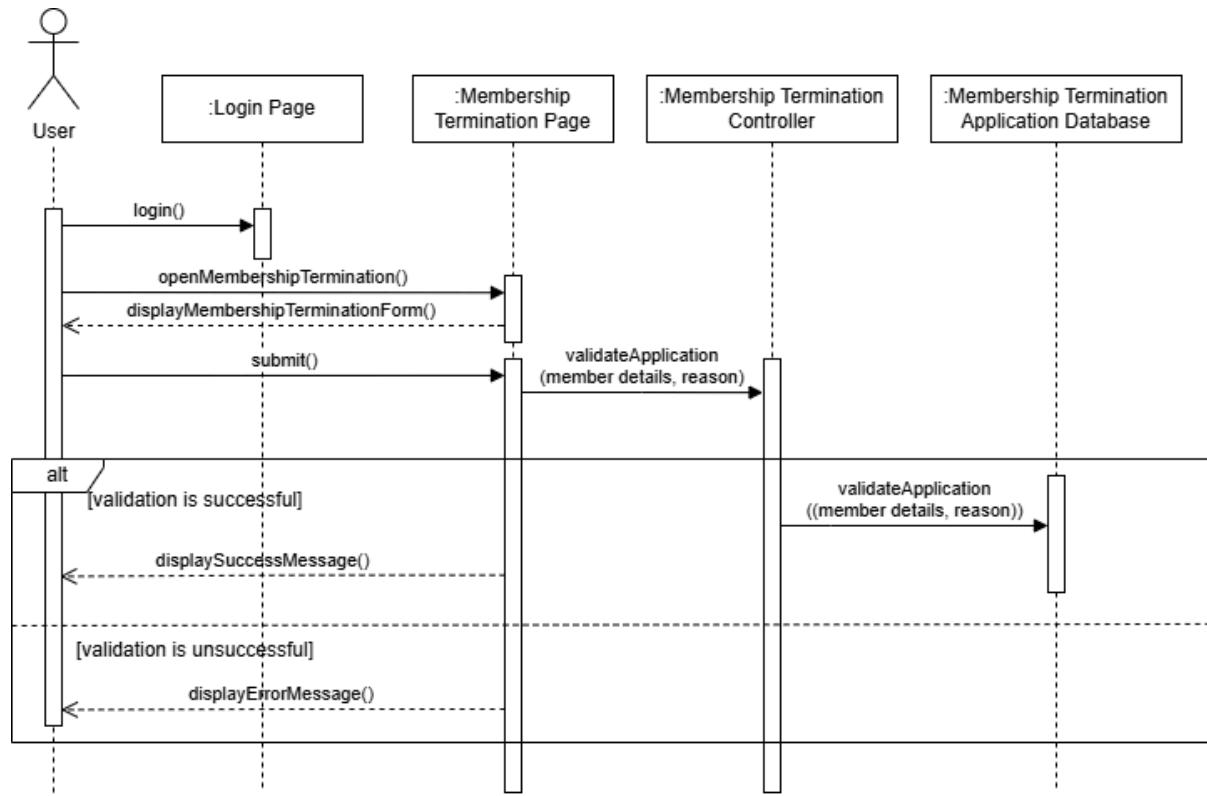


Figure 4.24: SD007 Sequence Diagram for Apply Membership Termination

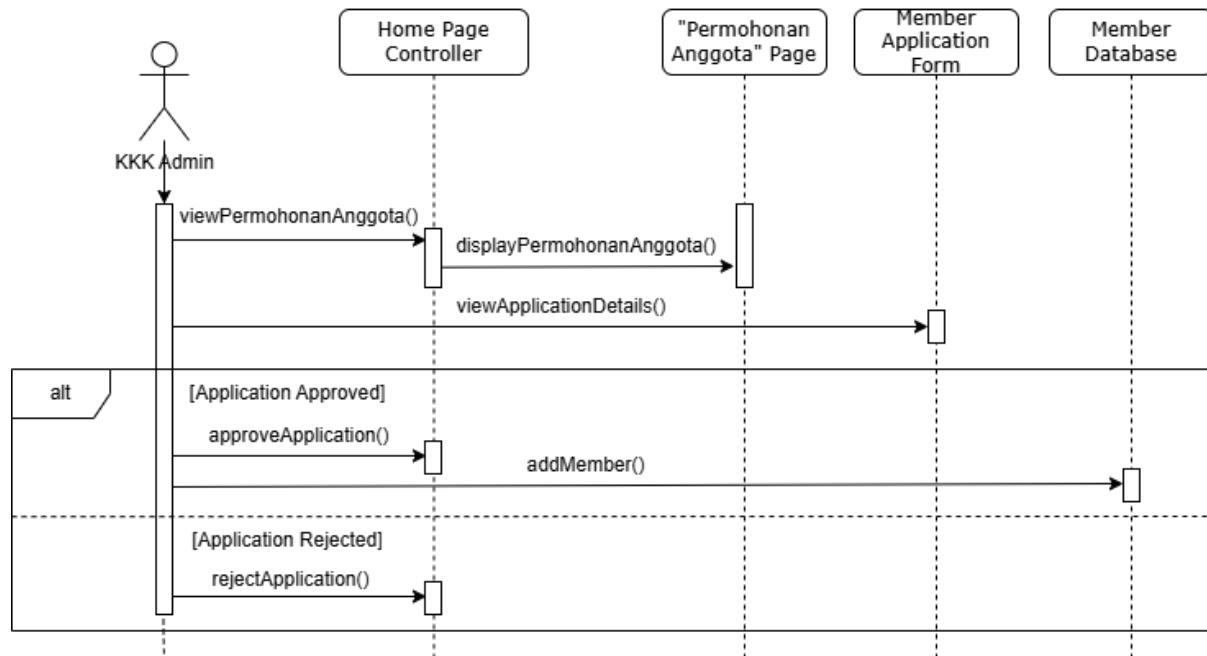


Figure 4.25: SD008 Sequence Diagram for Approve Membership

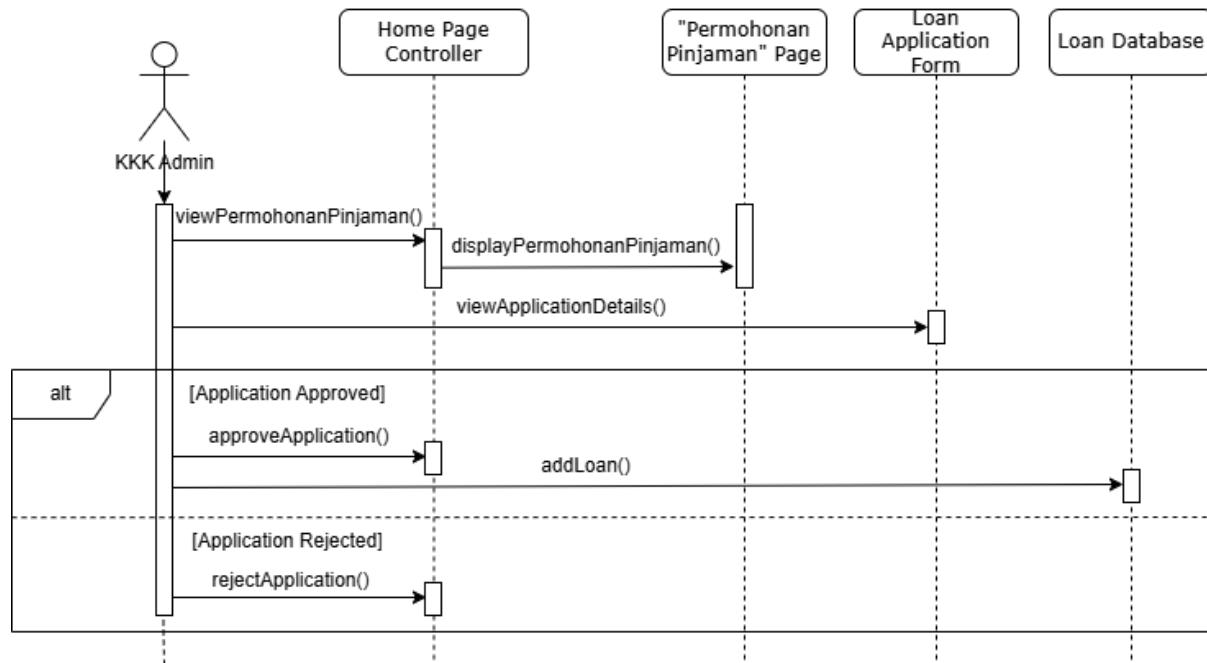


Figure 4.26: SD009 Sequence Diagram for Approve Loan Application

Admin Reporting Module

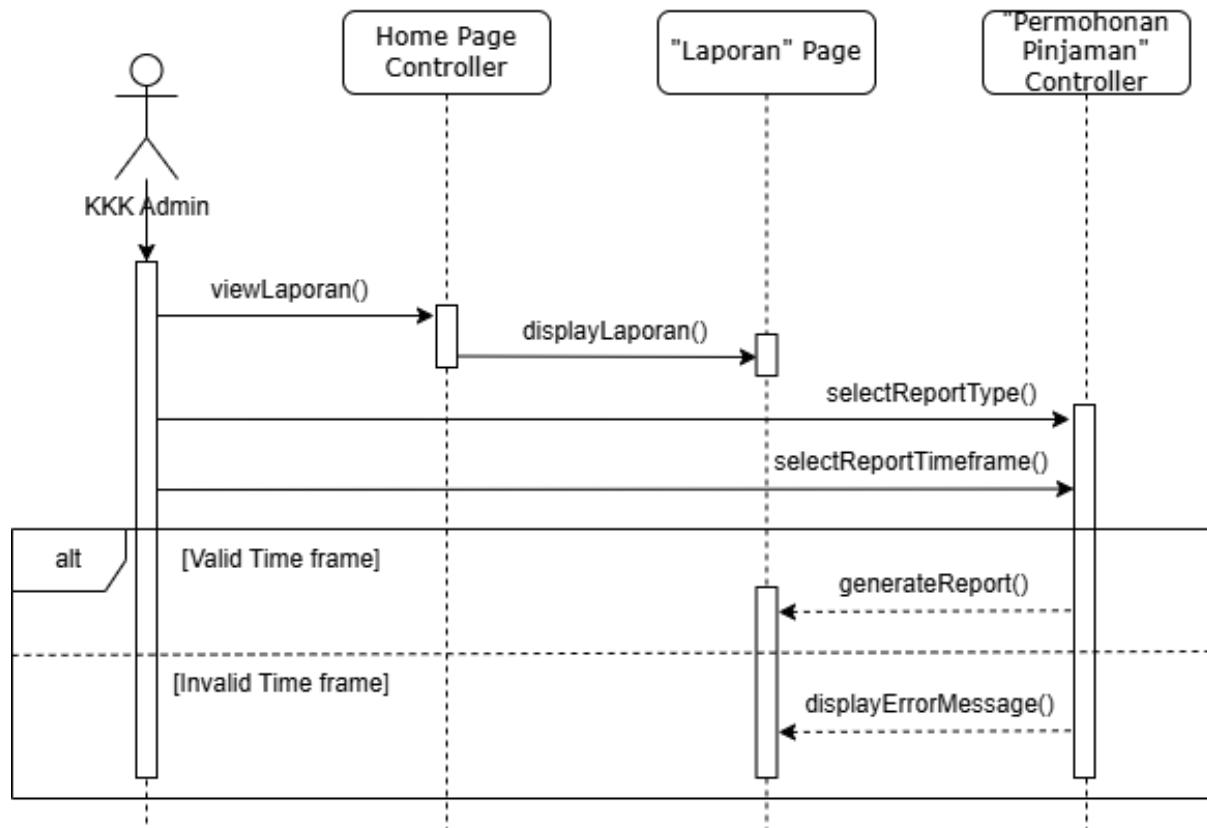


Figure 4.27: SD010 Sequence Diagram for Generate Report

Figure 4.28 shows the sequence diagram for manage system. The admin would be able to record transactions, update policies and update banners.

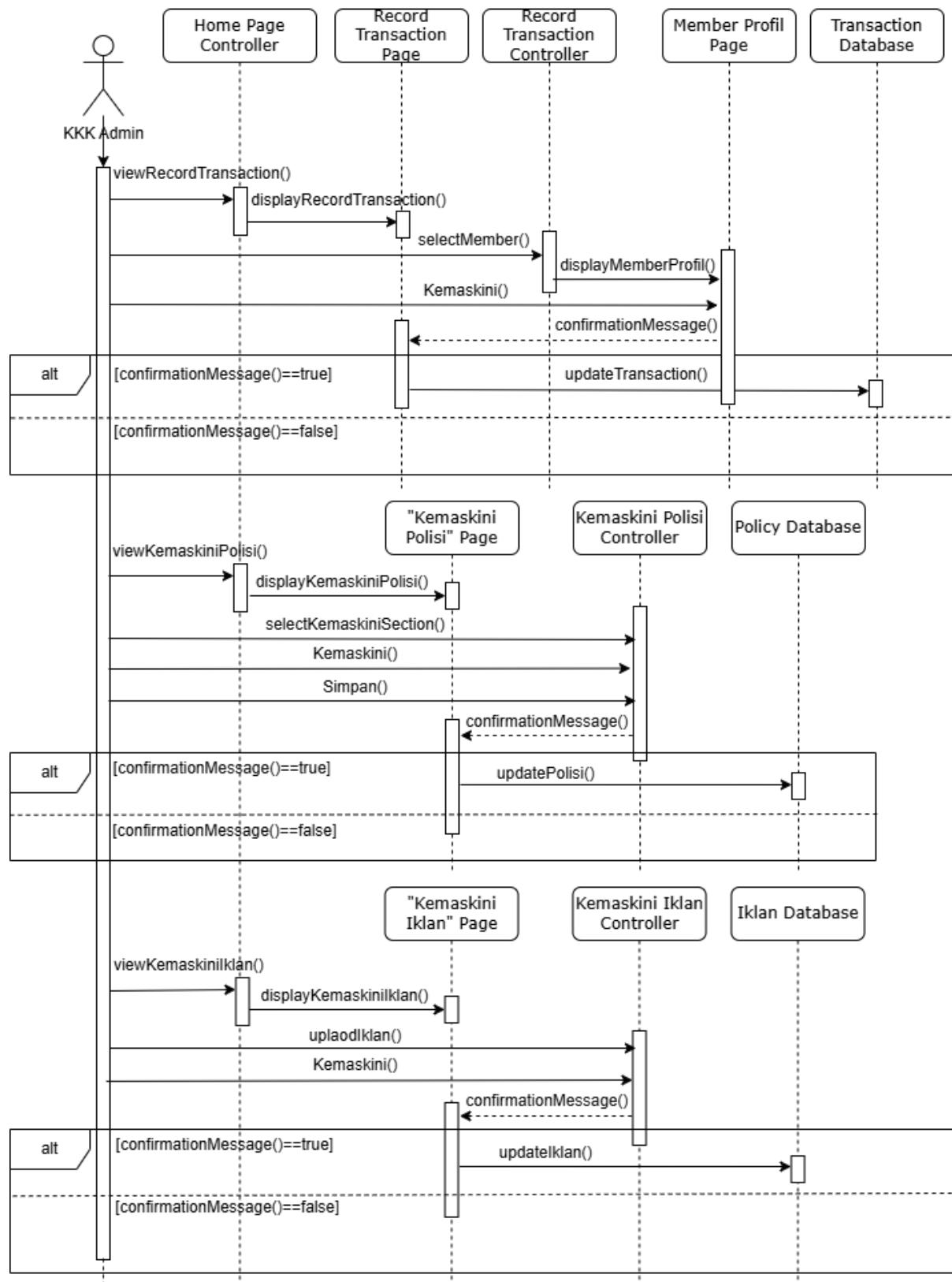


Figure 4.28: SD011 Sequence Diagram for Manage System

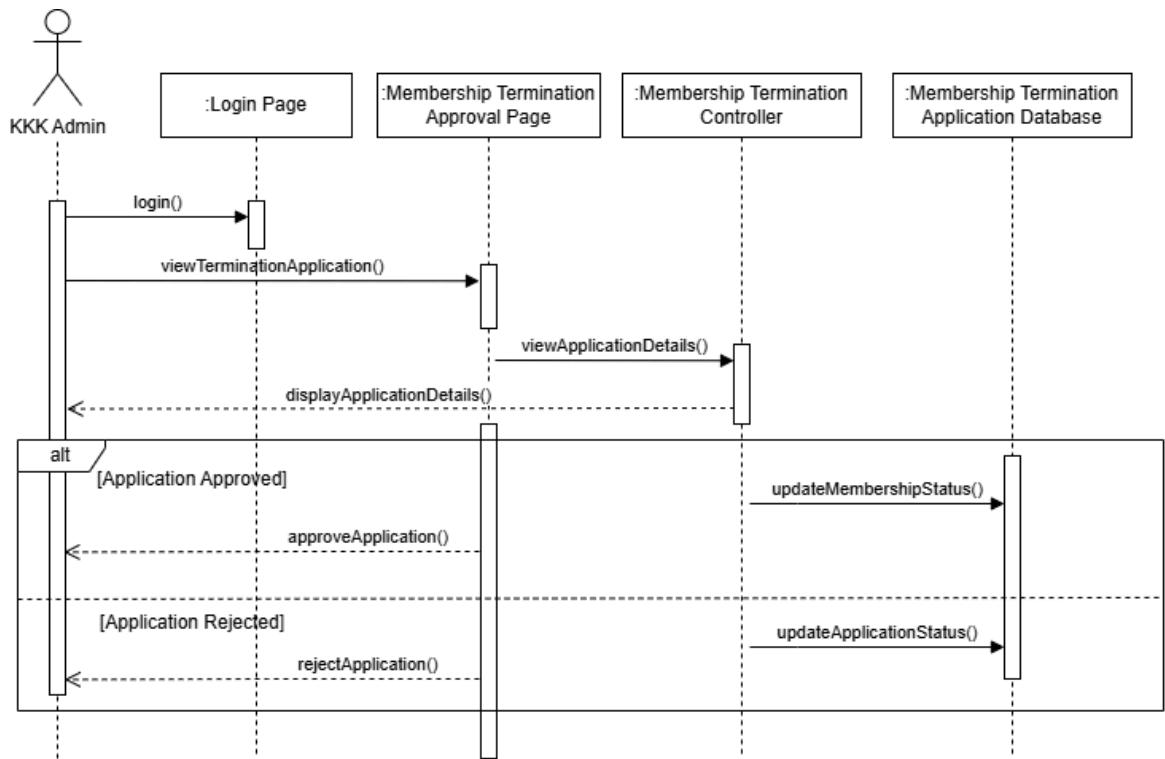


Figure 4.29: SD012 Sequence Diagram for Approve Membership Termination

4.5 Physical View

This Physical View describes how the software system is deployed on the hardware infrastructure, representing its physical architecture. The use of Deployment Diagram helps to visualize the relationship between hardware and software, ensuring proper deployment and performance optimization.

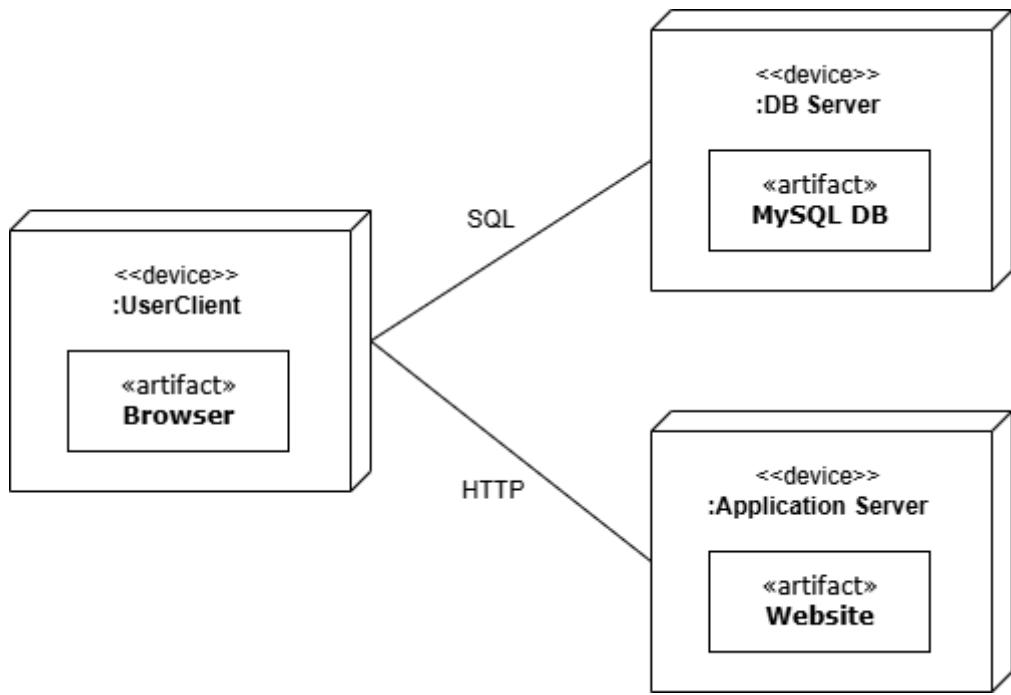


Figure 4.30: Deployment diagram for KKK Online System

5. Data Design

The major data or systems entities are stored into a relational database named as db_kkk, processed and organized into 27 entities as listed in Table 5.1. The relation between these entities are illustrated in the Entity-Relationship Diagram in Figure 5.1.

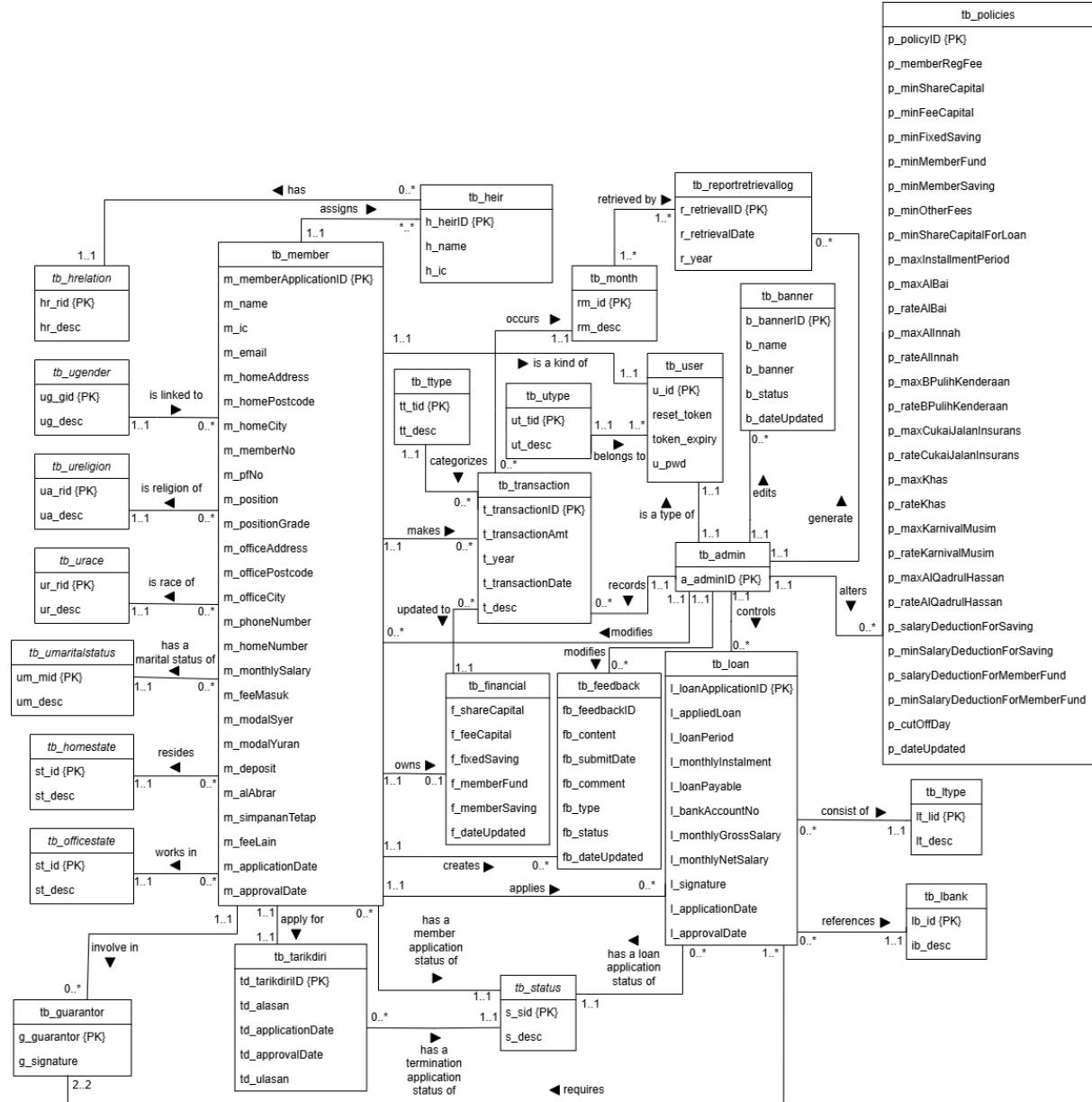


Figure 5.1 Entity-Relationship Diagram For KKK System

Table 5.1: Description of Entities in the Database

Entity Name	Description
tb_user	General term describing all users using KKK Online System
tb_utype	General term describing all types of users using KKK Online System
tb_member	General term describing all user logged in as member using KKK Online System
tb_ugender	General term describing the gender of a member
tb_ureligion	General term describing the religion of a member
tb_urace	General term describing the race of a member
tb_umaritalstatus	General term describing the marital status of a member
tb_homestate	General term describing the home state of a member
tb_officestate	General term describing the office state of a member
tb_admin	General term describing all user logged in as admin using KKK Online System
tb_heir	General term describing all people declared as heir of a member applicant
tb_hrelation	General term describing the relationship between a member applicant and his heir
tb_banner	General term describing all banners or picture to be published on Member Main Page
tb_policies	General term describing all policies of the cooperative
tb_transaction	General term describing all transaction made by member
tb_ttype	General term describing all types of transactions
tb_financial	General term describing all financial status of a member
tb_loan	General term describing all loans of the cooperative
tb_ltype	General term describing all types of loans of the cooperative
tb_lbank	General term describing all banks
tb_reportretrievallog	General term describing all report retrieval log of the system
tb_guarantor	General term describing all guarantors for a loan applicant

tb_status	General term describing all status for the applications
tb_month	General term describing all month in a year
tb_tarikdiri	General term describing all application to stop being a KKK member
tb_feedback	General term describing the feedback submitted by member
tb_ftype	General term describing all types of feedback

5.1 Data Dictionary

This section includes all data dictionaries shown in Table 5.1.1.

Table 5.1.1 Details of entity in database

Entity Name	Attributes	Data Type & Length	Description
tb_user	u_id (PK)	int (11)	Uniquely identifies each user
	reset_token	varchar (255)	Used when user are going to reset the password
	token_expiry	timestamp	Record the time when user reset password
	u_pwd	varchar(255)	User password for login
tb_admin	a_adminID (PK)	int (11)	Uniquely identifies each admin
tb_utype	ut_tid (PK)	int (11)	Uniquely identifies each user type
	ut_desc	varchar (10)	User's type description
tb_member	memberApplicationID (PK)	int (11)	Uniquely identifies each member application
	m_name	varchar(50)	User's full name
	m_ic	varchar(14)	User's identification number
	m_homeAddress	varchar(255)	User's home address
	m_homePostcode	int (11)	User's home postcode

	m_homeCity	varchar (50)	User's home city
	m_memberNo	int	Uniquely identifies each member
	m_pfNo	int	User's PF number
	m_position	varchar(50)	User's position
	m_positionGrade	varchar(11)	User's position grade
	m_officeAddress	varchar(255)	User's office address
	m_officePostcode	int (11)	User's office postcode
	m_officeCity	varchar (50)	User's office city
	m_phoneNumber	varchar(13)	User's phone number
	m_homeNumber	varchar(13)	User's home number
	m_monthlySalary	double	User's monthly salary
	m_feeMarket	double	User's entry fee
	m_modalSyer	double	User's shares
	m_modalYuran	double	User's share fee
	m_deposit	double	User's deposit
	m_alAbrar	double	A kind of user's fund
	m_simpanTetap	double	User's fixed saving
	m_feeLain	double	User's other fee
	m_applicationDate	datetime	The date when user submit his/her member application

	m_approvalDate	timestamp	The date when the member application being approved by admin
tb_ugender	ug_gid (PK)	int (11)	The unique id for gender
	ug_desc	varchar (10)	User's gender description
tb ureligion	ua_rid (PK)	int (11)	The unique id for religion
	ua_desc	varchar (10)	User's religion description
tb_urace	ur_rid (PK)	int (11)	The unique id for race
	ur_desc	varchar (10)	User gender's description
tb_umaritalstatus	um_mid (PK)	int (11)	The unique id for marital status
	um_desc	varchar (10)	User's marital status description
tb_homestate	st_id (PK)	int (11)	The unique id for user's home state
	st_desc	varchar (15)	User's home state description
tb_officestate	st_id (PK)	int (11)	The unique id for user's office state
	st_desc	varchar (15)	User's office state description
tb_heir	h_heirID (PK)	int (11)	Uniquely identifies each heir
	h_name	varchar(50)	Heir's full name
	h_ic	varchar(14)	Heir's identification number
tb_hrelation	hr_rid (PK)	int (11)	Uniquely identifies each heir relationship with member
	hr_desc	varchar (20)	The description of heir relationship with member
tb_banner	b_bannerID (PK)	int	Uniquely identifies each banner
	b_name	varchar (255)	Banner's name
	b_banner	varchar(50)	Banner's picture
	b_status	tinyint (1)	Banner's active or inactive state

	b_dateUpd ated	timestamp	Banner's updated time
tb_policies	p_policyID (PK)	int	Uniquely identifies each policy
	p_member RegFee	double	Policy for member registration fee
	p_minShar eCapital	double	Policy for minimum share capital of member applicant
	p_minFeeC apital	double	Policy for minimum fee capital of member applicant
	p_minFixe dSaving	double	Policy for minimum fixed saving of member applicant
	p_minMem berFund	double	Policy for minimum member fund of member applicant
	p_minMem berSaving	double	Policy for minimum member saving of member applicant
	p_minOthe rFees	double	Policy for minimum other fees of member applicant
	p_minShar eCapitalFor Loan	double	Policy for minimum share capital loan of loan applicant
	p_profitRat e	double	Policy for profit rate of loan
	p_maxInsta llmentPerio d	int	Policy for maximum instalment period of loan applicant
	p_maxFina ncingAmt	double	Policy for maximum financing amount of loan applicant
	p_salaryDe ductionFor Saving	double	Policy for salary deduction for saving of loan borrower
	p_salaryDe ductionFor MemberFu nd	double	Policy for salary deduction for member fund of loan borrower
	p_dateUpd	timestamp	The date when the admin update the

	ated		policy
tb_transaction	t_transactio nID (PK)	int	Uniquely identifies each transaction
	t_transactio nAmt	double	Transaction amount
	t_year	int (11)	The year when the transaction made
	t_transactio nDate	timestamp	Transaction date
	t_desc	varchar (255)	The objective of the transaction made
tb_ttype	tt_lid (PK)	int	Uniquely identifies each transaction type
	tt_desc	varchar (30)	The description of each transaction type
tb_financial	f_shareCap ital	double	Member's share capital
	f_feeCapita l	double	Member's fee capital
	f_fixedSavi ng	double	Member's fixed saving
	f_memberF und	double	Member's fund
	f_memberS aving	double	Member's saving
	f_dateUpda ted	double	The date when the financial record is updated
tb_loan	l_loanAppl icationID (PK)	int	Uniquely identifies each loan application
	l_appliedL oan	double	Amount of loan applied
	l_loanPerio d	int	Loan period
	l_monthlyI nstalment	double	Monthly instalment for loan
	l_loanPaya ble	double	The total loan that need to be paid by the member

	l_bankAccountNo	int	Loan borrower's bank account number
	l_monthlyGrossSalary	double	Loan borrower's monthly gross salary
	l_monthlyNetSalary	double	Loan borrower's monthly net salary
	l_signature	varchar(50)	Loan borrower's signature
	l_file	varchar (50)	Loan borrower's employer's verification proof
	l_applicationDate	datetime	The date where loan application is made by a member
	l_approvalDate	timestamp	The date where loan application is approved by admin
tb_ltype	lt_lid (PK)	int	Uniquely identifies each retrieval record
	lt_desc	varchar (30)	The description of each loan type
tb_lbanks	lb_lid (PK)	int	Uniquely identifies each bank
	lb_desc	varchar (30)	The description of each bank
tb_reportretrievallog	r_retrievalID (PK)	int (11)	Uniquely identifies each retrieval log
	r_retrievalDate	date	Report retrieval date
	r_year	int	Selected year for report
tb_guarantor	g_guarantorID (PK)	int (11)	Uniquely identifies each guarantor
	g_signature	varchar(50)	Guarantor's signature
tb_status	s_sid (PK)	int (11)	Uniquely identifies each status
	s_desc	varchar (20)	The description of each status
tb_rmonth	rm_id (PK)	int (11)	Uniquely identifies each month
	rm_desc	varchar (10)	The description of each month
tb_tarikdiri	td_tarikdiriID (PK)	int (11)	Uniquely identifies each membership termination application

	td_alasan	varchar (255)	The reason for membership termination that was filled by the member
	td_applicationDate	datetime	The date where application is made by a member
	td_approvalDate	timestamp	The date where the application is approved by admin
	td_ulasan	Varchar (255)	The comment filled by the KKK staff if they wish to reject the request
	td_status	int (11)	The status of the membership termination application
tb_feedback	fb_feedbackID (PK)	int (11)	Uniquely identifies each admin
	fb_content	varchar (255)	The content of the feedback
	fb_submitDate	datetime	The date when the member submit the feedback form
	fb_comment	varchar (255)	The comment from admin to the feedback
	fb_editStatusDate	datetime	The date when the admin edit the status of the feedback
tb_fbtype	fb_id (PK)	int (11)	Uniquely identifies each feedback
	fb_desc	varchar (20)	The description of each feedback type

6. User Interface Design

The KKK Online System has login, member and admin interfaces.

6.1 Package 1 User Management

6.1.2 Log In



Figure 6.1 Log In Interface

Forgot Password Page

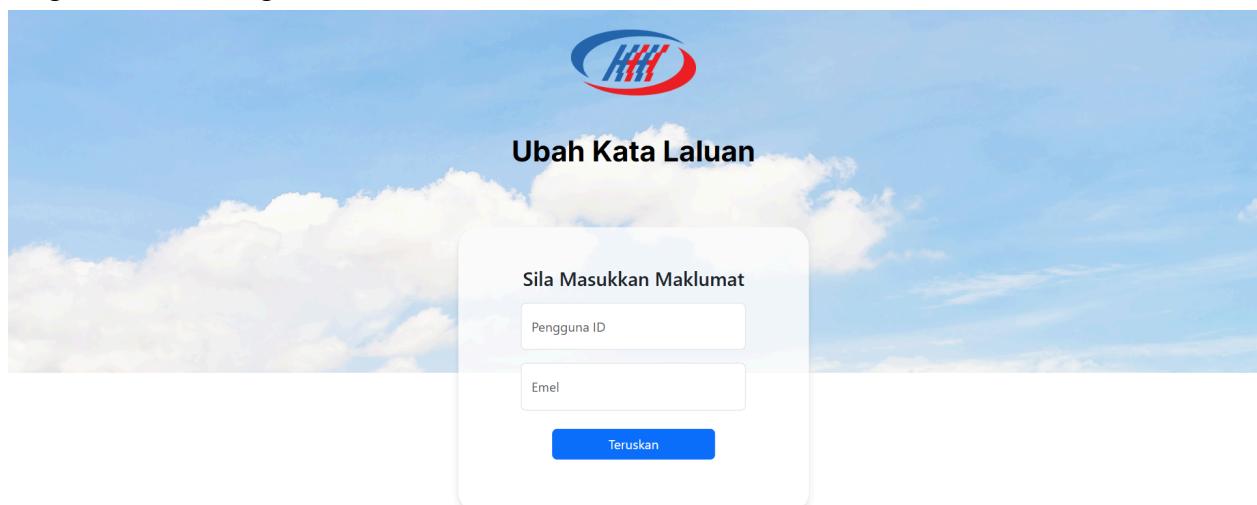
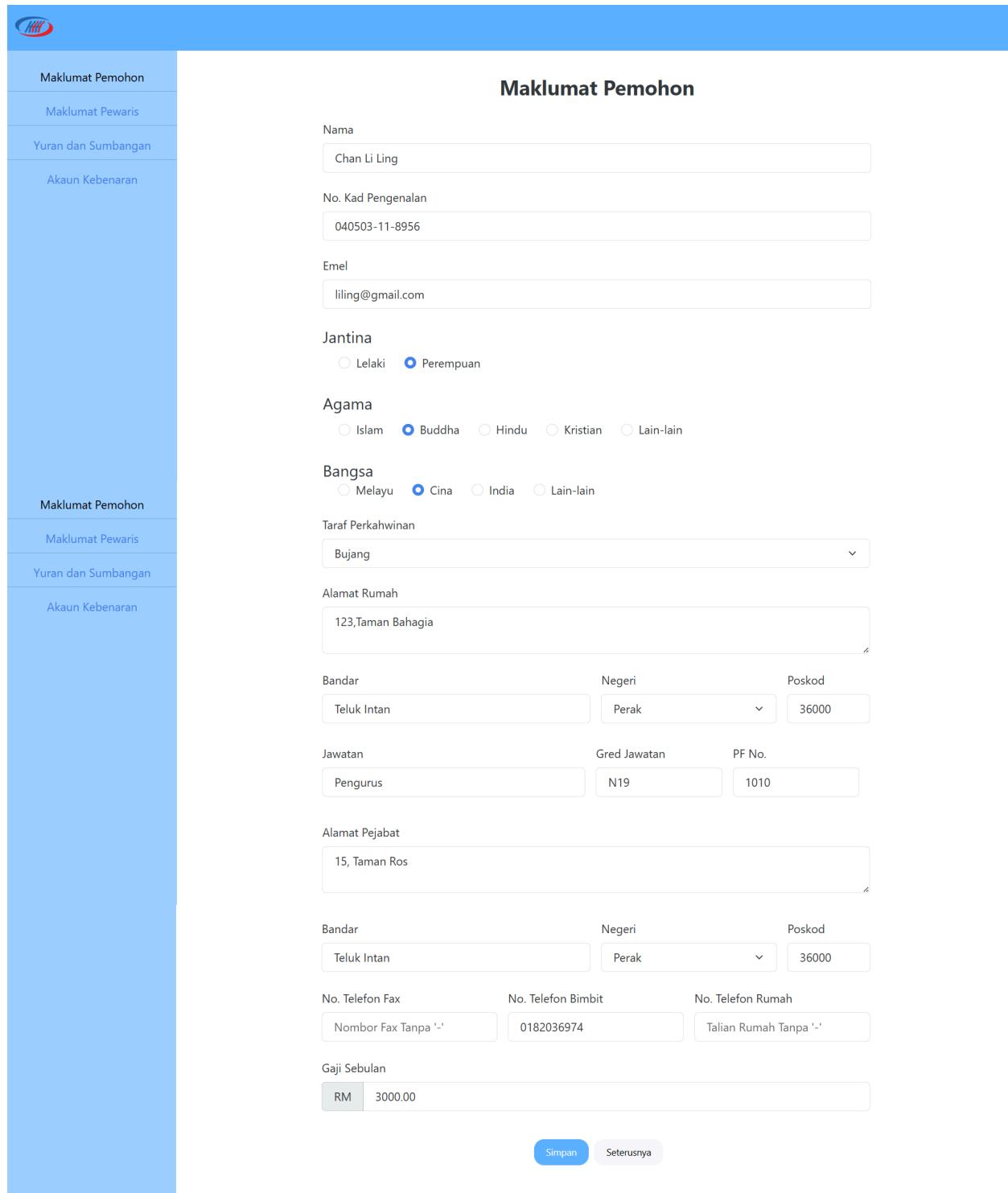


Figure 6.2 Forgot Password Page

6.1.2 Apply Membership

Member Application Page



The screenshot shows a member application form titled "Maklumat Pemohon". The left sidebar lists navigation options: Maklumat Pemohon, Maklumat Pewaris, Yuran dan Sumbangan, and Akaun Kebenaran. The main form fields include:

- Nama:** Chan Li Ling
- No. Kad Pengenalan:** 040503-11-8956
- Emel:** liling@gmail.com
- Jantina:** Perempuan (selected)
- Agama:** Buddha (selected)
- Bangsa:** Cina (selected)
- Taraf Perkahwinan:** Bujang
- Alamat Rumah:** 123,Taman Bahagia
- Bandar:** Teluk Intan
- Negeri:** Perak
- Poskod:** 36000
- Jawatan:** Pengurus
- Gred Jawatan:** N19
- PF No.:** 1010
- Alamat Pejabat:** 15, Taman Ros
- Bandar:** Teluk Intan
- Negeri:** Perak
- Poskod:** 36000
- No. Telefon Fax:** Nombor Fax Tanpa '-'
- No. Telefon Bimbit:** 0182036974
- No. Telefon Rumah:** Talian Rumah Tanpa '-'
- Gaji Sebulan:** RM 3000.00

At the bottom right are "Simpan" and "Seterusnya" buttons.



Maklumat Pemohon
Maklumat Pewaris
Yuran dan Sumbangan
Akaun Kebenaran
Maklumat Pemohon
Maklumat Pewaris
Yuran dan Sumbangan
Akaun Kebenaran

Maklumat Pewaris

Pewaris 1

Nama

Tan Li Hong

Nombor KP

051211-11-6532

Hubungan

Lain-lain



Pewaris 2

Nama

Ong Meng Kok

Nombor KP

001204-11-8457

Hubungan

Suami Isteri



Pewaris 3

Nama

Chan Lay Feng

Nombor KP

010506-11-7413

Hubungan

Saudara Kandung

Tambah Pewaris

< Kembali

Simpan

Seterusnya



Maklumat Pemohon

Maklumat Pewaris

Yuran dan Sumbangan

Akaun Kebenaran

Yuran dan Sumbangan

Fee Masuk

RM	50.00
----	-------

Modal Syer

RM	300.00
----	--------

Modal Yuran

RM	35.00
----	-------

Wang Deposit Anggota

RM	0.00
----	------

Sumbangan Tabung Kebajikan (Al-Abrar)

RM	5.00
----	------

Simpanan Tetap

RM	0.00
----	------

Lain-lain

RM	0.00
----	------

[< Kembali](#) [Simpan](#) [Seterusnya](#)



Maklumat Pemohon

Maklumat Pewaris

Yuran dan Sumbangan

Akaun Kebenaran

Akuan Kebenaran

Saya mengaku bahawa semua maklumat yang diberi adalah benar dan betul. Sekiranya saya didapati memberikan maklumat tidak benar atau palsu, saya boleh disabitkan kesalahan di bawah seksyen 193 Kanun Keseksaan (Akta 574) dan boleh dikenakan hukuman penjara selama tempoh yang boleh sampa tiga (3) tahun dan boleh juga dikenakan denda.

Setuju

[< Kembali](#) [Simpan](#)

Maklumat Pemohon		
Nama	Chan Li Ling	
No. Kad Pengenalan	040503-11-8956	
E-mel	liling@gmail.com	
Jantina	Perempuan	
Agama	Buddha	
Bangsa	Cina	
Alamat Rumah	123,Taman Bahagia	
Bandar	Teluk Intan	
Negeri	Perak	
Poskod	36000	
Jawatan	Pengurus	
Gred Jawatan	N19	
No. PF	1010	
Alamat Pejabat	15, Taman Ros	
Bandar Pejabat	Teluk Intan	
Negeri Pejabat	Perak	
Poskod Pejabat	36000	
No. Telefon Bimbit	0182036974	
No. Telefon Rumah		
Gaji Sebulan	RM 3000	

Yuran dan Sumbangan		
Yuran Masuk	RM 50	
Modal Syer	RM 300	
Yuran	RM 35	
Anggota	RM 0	
Al Abrar	RM 5	
Simpanan Tetap	RM 0	
Lain-lain	RM 0	

Maklumat Waris		
Nama	No. Kad Pengenalan	Hubungan
Tan Li Hong	051211-11-6532	Lain-lain
Ong Meng Kok	001204-11-8457	Suami Isteri
Chan Lay Feng	010506-11-7413	Saudara kandung

Selesai

Figure 6.3 Member Application Page

6.2 Package 2 Member Management

6.2.1 View Financial Status

Figure 6.4 shows the Member Main Page, allowing member to view their financial details.

The screenshot displays the Member Main Page with the following sections:

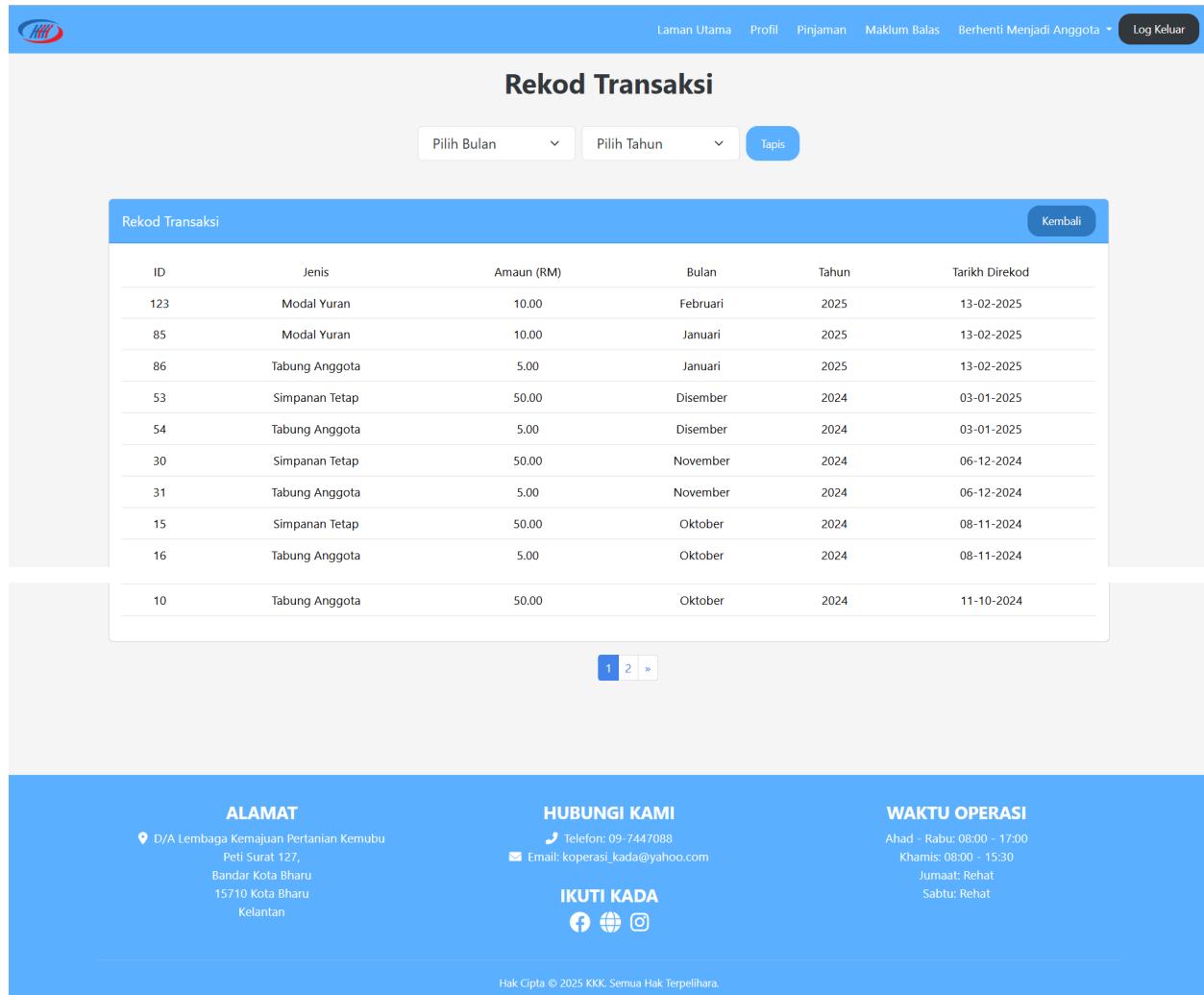
- Header:** Includes the KKK logo, navigation links (Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota), and a Log Keluar button.
- Hero Section:** Features a large image of two people smiling and holding hands. Text overlay: "Perlu Pinjaman? Dapatkan Kelulusan Cepat!" and "Kadar Faedah Rendah, Tarma Pembayaran Fleksibel, Permohonan Cepat & Mudah".
- Maklumat Saham Ahli:** Table showing financial details:

Akaun	Saldo
Modah Syer	RM 300.00
Modal Yuran	RM 0.00
Simpanan Tetap	RM 150.00
Tabung Anggota	RM 20.00
Simpanan Anggota	RM 50.00
- Maklumat Pinjaman Ahli:** Table showing loan details:

Akaun	Saldo
Al-Bai	RM 0.00
Al-Innah	RM 4,504.00
Al-Qadrul Hassan	RM 0.00
Baik Pulih Kenderaan	RM 11,436.67
Karnival Musim Istimewa	RM 0.00
Khas	RM 0.00
Road Tax dan Insurans	RM 0.00
- Footer:** Contains sections for ALAMAT, HUBUNGI KAMI, and WAKTU OPERASI, along with copyright information: "Hak Cipta © 2025 KKK. Semua Hak Terpelihara."

Figure 6.4 Member Main Page

Figure 6.5 shows the Member Transaction Record Page, which allows members to view their transaction history.



The screenshot displays the 'Rekod Transaksi' (Transaction Record) page. At the top, there are dropdown menus for 'Pilih Bulan' (Select Month) and 'Pilih Tahun' (Select Year), and a 'Tapis' (Filter) button. A 'Kembali' (Return) button is located in the top right corner of the main table area. The main content is a table titled 'Rekod Transaksi' with columns: ID, Jenis, Amaun (RM), Bulan, Tahun, and Tarikh Direkod. The table lists ten transactions, with the last one being partially visible. Below the table is a navigation bar with page numbers 1, 2, and a next arrow. The bottom section of the page contains three columns: 'ALAMAT' (Address) with details for D/A Lembaga Kemajuan Pertanian Kemubu; 'HUBUNGI KAMI' (Contact Us) with telephone and email information; and 'WAKTU OPERASI' (Operating Hours) detailing the opening times for different days of the week. The footer includes a copyright notice: 'Hak Cipta © 2025 KKK. Semua Hak Terpelihara.'

ID	Jenis	Amaun (RM)	Bulan	Tahun	Tarikh Direkod
123	Modal Yuran	10.00	Februari	2025	13-02-2025
85	Modal Yuran	10.00	Januari	2025	13-02-2025
86	Tabung Anggota	5.00	Januari	2025	13-02-2025
53	Simpanan Tetap	50.00	Disember	2024	03-01-2025
54	Tabung Anggota	5.00	Disember	2024	03-01-2025
30	Simpanan Tetap	50.00	November	2024	06-12-2024
31	Tabung Anggota	5.00	November	2024	06-12-2024
15	Simpanan Tetap	50.00	Okttober	2024	08-11-2024
16	Tabung Anggota	5.00	Okttober	2024	08-11-2024
10	Tabung Anggota	50.00	Okttober	2024	11-10-2024

Figure 6.5 Member Transaction Record Page

Figure 6.6 shows the Member Loan Repayment Record Page, allowing members to view their loan repayment history.

The screenshot displays a web application interface for managing member loans. At the top, there is a blue header bar with the KADA logo on the left and navigation links: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, and Log Keluar on the right. Below the header, the main content area has a title "Rekod Bayaran Balik" (Loan Repayment Record) centered above a table. The table has columns for ID, Jenis (Type), Amaun (RM) (Amount), Bulan (Month), Tahun (Year), and Tarikh Direkod (Record Date). There are four rows of data:

ID	Jenis	Amaun (RM)	Bulan	Tahun	Tarikh Direkod
55	Baik Pulih Kenderaan	91.67	Disember	2024	03-01-2025
56	Baik Pulih Kenderaan	243.33	Disember	2024	03-01-2025
32	Baik Pulih Kenderaan	91.67	November	2024	06-12-2024
17	Baik Pulih Kenderaan	91.67	Oktober	2024	08-11-2024

Below the table, there is a small blue button with the number "1". At the bottom of the page, there is a footer section with three columns: ALAMAT (Address), HUBUNGI KAMI (Contact Us), and WAKTU OPERASI (Operating Hours). The address is D/A Lembaga Kemajuan Pertanian Kemulu, Peti Surat 127, Bandar Kota Bharu, 15710 Kota Bharu, Kelantan. The contact information includes a telephone number (09-7447088) and an email address (koperasi_kada@yahoo.com). The operating hours are listed as follows:

Waktu	Operasi
Ahad - Rabu	08:00 - 17:00
Khamis	08:00 - 15:30
Jumaat	Rehat
Sabtu	Rehat

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Figure 6.6 Member Loan Repayment Record Page

6.2.2 Update User Profile

Figure 6.7 shows the Member Profile, which allows members to view their personal information.

The screenshot displays a member profile page with a blue header bar containing the logo, navigation links (Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota), and a Log Keluar button. The main content area has a title "Maklumat Peribadi". Below it, there are two sections: "Butir-butir Peribadi Pemohon" and "Maklumat Keluarga dan Pewaris".

Butir-butir Peribadi Pemohon:

Nama	Lam Kin Xin
No. KP	781213-09-0123
E-mel	lamkinxin@gmail.com
Jantina	Lelaki
Agama	Buddha
Bangsa	Cina
Taraf Perkahwinan	Bujang
Alamat Rumah	78, Jalan Ah Fook
Poskod	12345
Bandar	Ipooh
Negeri	Pahang
No. Anggota	1003

Maklumat Keluarga dan Pewaris:

Keluarga / Pewaris 1	
Nama	Lam Ji Dan

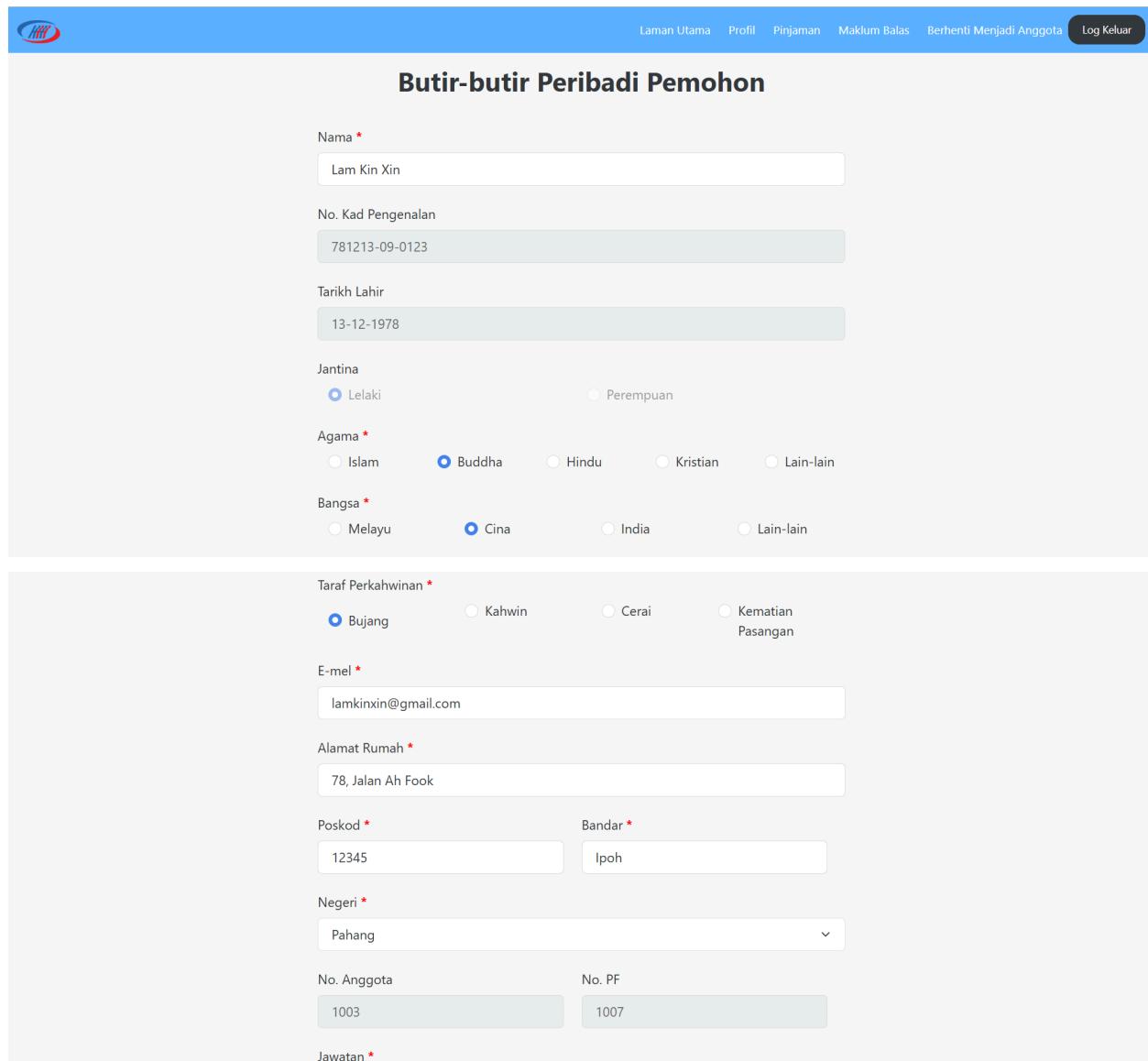
No. KP	040103-08-0123
Hubungan	Anak
Keluarga / Pewaris 2	
Nama	Lam Fan Shu
No. KP	010101-08-1234
Hubungan	Anak
Keluarga / Pewaris 3	
Nama	Wong Mei Ling
No. KP	802020-08-0123
Hubungan	Suami Isteri
Keluarga / Pewaris 4	
Nama	LamYoye
No. KP	760202-08-1234
Hubungan	Saudara kandung

Butir-butir Potongan Gaji	Kemaskini
Simpanan Tetap	50
Tabung Anggota	5

ALAMAT D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan	HUBUNGI KAMI Telefon: 09-7447088 Email: koperasi_kada@yahoo.com	WAKTU OPERASI Ahad - Rabu: 08:00 - 17:00 Khamis: 08:00 - 15:30 Jumaat: Rehat Sabtu: Rehat
IKUTI KADA Facebook Instagram Twitter		
Hak Cipta © 2025 KKK. Semua Hak Terpelihara.		

Figure 6.7 Member Profile

Figure 6.8 shows the Member Update Profile Page, allowing members to modify their personal information.



The screenshot displays the 'Butir-butir Peribadi Pemohon' (Personal Details of Beneficiary) section of a member update profile page. The page has a blue header bar with the logo 'MAM' on the left and navigation links: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, and Log Keluar on the right. The main content area is titled 'Butir-butir Peribadi Pemohon'. It contains several input fields and dropdown menus:

- Nama ***: Lam Kin Xin
- No. Kad Pengenalan**: 781213-09-0123
- Tarikh Lahir**: 13-12-1978
- Jantina**:
 - Lelaki
 - Perempuan
- Agama ***:
 - Islam
 - Buddha
 - Hindu
 - Kristian
 - Lain-lain
- Bangsa ***:
 - Melayu
 - Cina
 - India
 - Lain-lain
- Taraf Perkahwinan ***:
 - Bujang
 - Kahwin
 - Cerai
 - Kematian Pasangan
- E-mel ***: lamkinxin@gmail.com
- Alamat Rumah ***: 78, Jalan Ah Fook
- Poskad ***: 12345
- Bandar ***: Ipoh
- Negeri ***:
 - Pahang
- No. Anggota**: 1003
- No. PF**: 1007
- Jawatan ***: (This field is empty)

Jurutera

Gred *

N12

Alamat Pejabat (Tempat Bertugas) *

78, Jalan Koperasi

Poskod *

51021

Bandar *

Kota Bharu

Negeri *

Kelantan

No. Telefon / Fax No. Telefon Bimbit * No. Telefon Rumah

N/A 0123456789 N/A

Gaji Bulanan (RM) *

2000

Simpan

ALAMAT

📍 D/A Lembaga Kemajuan Pertanian Kemuzu
Peti Surat 127,
Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGKAMI

📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

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Figure 6.8 Member Update Profile Page

Figure 6.9 shows the Member Update Family and Heir Page, which allows members to update their heir information.

Laman Utama Profil Pinjaman Maklum Balas Berhenti Menjadi Anggota Log Keluar

Maklumat Keluarga dan Pewaris

Maklumat Pewaris 1 Padam

Nama *
Lam Ji Dan

No. KP / No. Srt Beranak *
040103-08-0123

Hubungan *
Anak

Maklumat Pewaris 2 Padam

Nama *
Lam Fan Shu

No. KP / No. Srt Beranak *
010101-08-1234

Hubungan *
Anak

Maklumat Pewaris 3 Padam

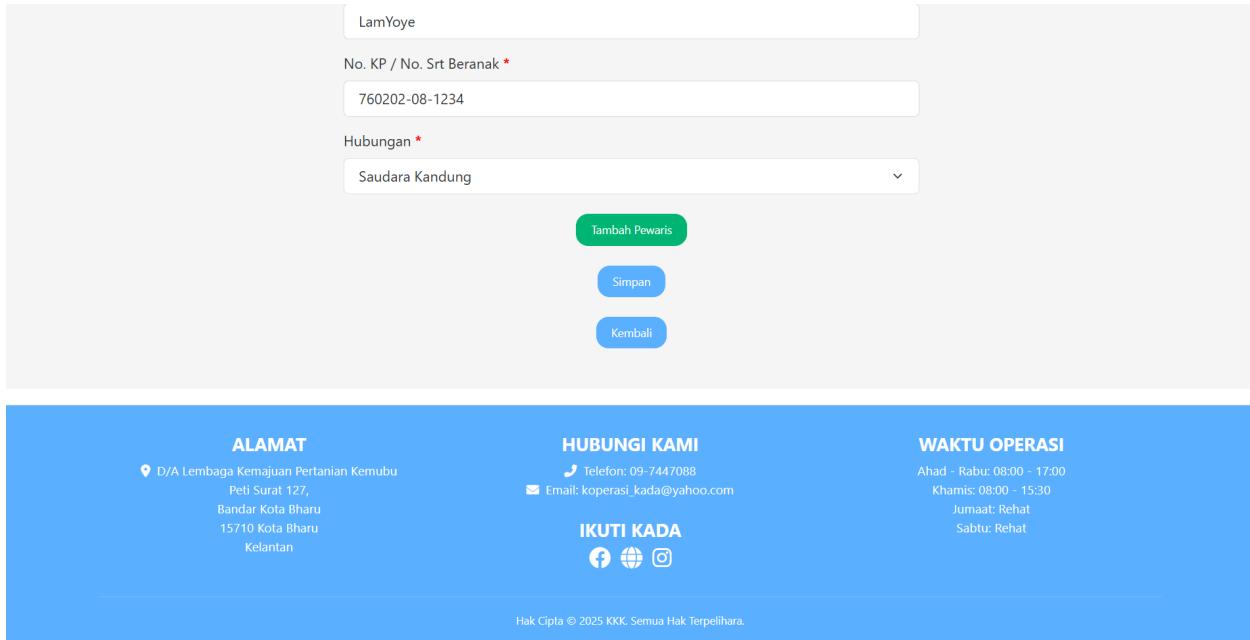
Nama *
Wong Mei Ling

No. KP / No. Srt Beranak *
802020-08-0123

Hubungan *
Suami Isteri

Maklumat Pewaris 4 Padam

Nama *



This screenshot shows the 'Member Update Family and Heir' page. At the top, there is a search bar with the placeholder 'LamYoye'. Below it, there are input fields for 'No. KP / No. Srt Beranak *' containing '760202-08-1234' and 'Hubungan *' containing 'Saudara Kandung'. A dropdown menu is open next to 'Hubungan'. At the bottom right are three buttons: 'Tambah Pewaris' (green), 'Simpan' (blue), and 'Kembali' (light blue).

ALAMAT
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Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGI KAMI
Telefon: 09-7447088
Email: koperasi_kada@yahoo.com

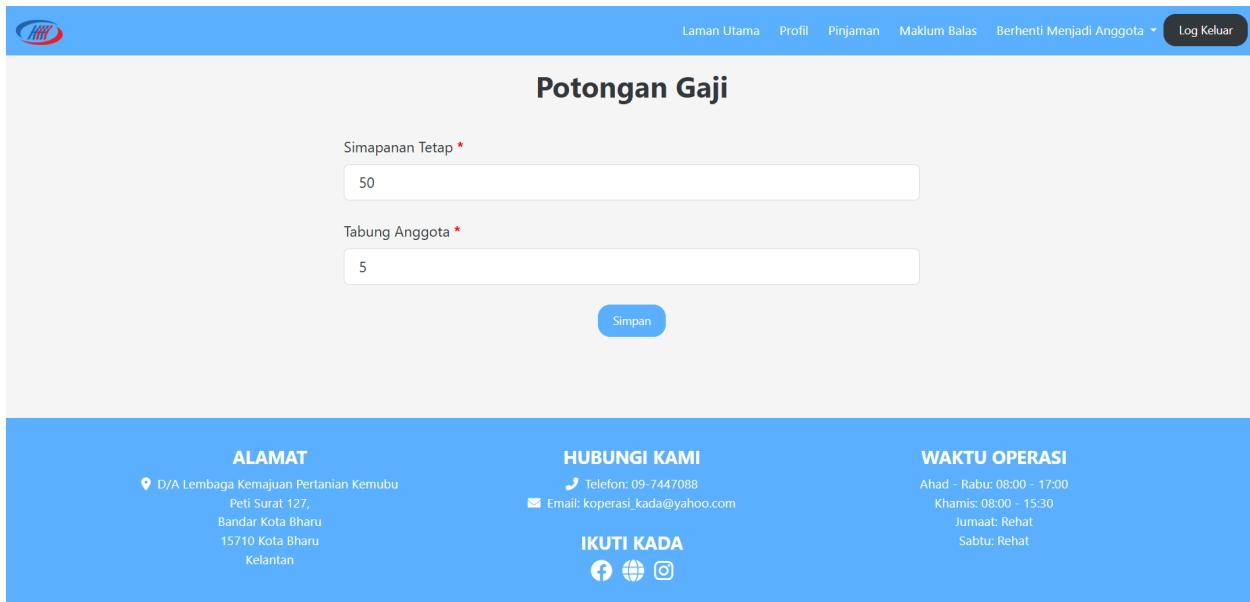
WAKTU OPERASI
Ahad - Rabu: 08:00 - 17:00
Khamis: 08:00 - 15:30
Jumaat: Rehat
Sabtu: Rehat

IKUTI KADA

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Figure 6.9 Member Update Family and Heir Page

Figure 6.10 shows the Member Update Salary Deduction Page, which allows members to change the amount of monthly salary deduction.



This screenshot shows the 'Member Update Salary Deduction' page. At the top, there is a navigation bar with links: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, and Log Keluar. The main title is 'Potongan Gaji'. Below it, there are two input fields: 'Simapanan Tetap *' with value '50' and 'Tabung Anggota *' with value '5'. A 'Simpan' button is located at the bottom right. The bottom section is identical to Figure 6.9, featuring 'ALAMAT', 'HUBUNGI KAMI', 'WAKTU OPERASI', and social media links.

Figure 6.10 Member Update Salary Deduction Page

6.2.3 Apply Membership Termination

Figure 6.11 shows the Member Membership Termination Page, allowing members to apply for member termination if they do not have any unpaid loan.



Laman Utama Profil Pinjaman Maklum Balas Berhenti Menjadi Anggota Log Keluar

Permohonan Berhenti Menjadi Anggota

No. Anggota
1003

Nama
Lam Kin Xin

Sebab Berhenti Menjadi Anggota *

Kembali **Hantar**

ALAMAT
📍 D/A Lembaga Kemajuan Pertanian Kemulu
 Peti Surat 127,
 Bandar Kota Bharu
 15710 Kota Bharu
 Kelantan

HUBUNGI KAMI
📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

WAKTU OPERASI
 Ahad - Rabu: 08:00 - 17:00
 Khamis: 08:00 - 15:30
 Jumaat: Rehat
 Sabtu: Rehat

IKUTI KADA

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Figure 6.11 Member Membership Termination Page

Figure 6.12 shows the Member Track Membership Termination Status Page, which allows members to track their member termination application status and view the reason if the application is rejected.



Laman Utama Profil Pinjaman Maklum Balas Berhenti Menjadi Anggota Log Keluar

Status Permohonan Berhenti Menjadi Anggota

Status Permohonan Berhenti Menjadi Anggota			
ID	Tarikh Hantar	Status	Ulasan
2	24-01-2025 18:53:18	Sedang Diproses	
1	24-01-2025 18:52:09	Sedang Diproses	

ALAMAT
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 Peti Surat 127,
 Bandar Kota Bharu
 15710 Kota Bharu
 Kelantan

HUBUNGI KAMI
📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

WAKTU OPERASI
 Ahad - Rabu: 08:00 - 17:00
 Khamis: 08:00 - 15:30
 Jumaat: Rehat
 Sabtu: Rehat

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Figure 6.12 Member Track Membership Termination Status Page

6.3 Package 3 Loan Management

6.3.1 View Loan Application Status

Figure 6.13 shows the Member Track Loan Application Page, allowing members to view his loan status and details.

The screenshot displays a web application interface for managing loans. At the top, there is a navigation bar with links: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, and Log Keluar. Below the navigation bar is a table titled "Papan Pemuka Pinjaman" showing two loan applications:

No.	Jenis Pinjaman	Jumlah Permohonan (RM)	Tempoh Pinjaman (Tahun)	Ansuran Bulanan (RM)	Tunggakan (RM)	Tarikh Permohonan	Status
1	Baik Pulih Kenderaan	2,000.00	2	91.67	1,924.99	2024-11-15 20:29:55	Dilulus
2	Baik Pulih Kenderaan	10,000.00	4	243.33	11,436.67	2024-12-04 21:44:54	Dilulus

Below the table is a blue button labeled "Mohon Pinjaman". The main content area is divided into three sections: ALAMAT, HUBUNGI KAMI, and WAKTU OPERASI. The ALAMAT section provides the address: D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan. The HUBUNGI KAMI section lists contact information: Telefon: 09-7447088 and Email: koperasi_kada@yahoo.com. The WAKTU OPERASI section specifies operating hours: Ahad - Rabu: 08:00 - 17:00; Kamis: 08:00 - 15:30; Jumaat: Rehat; Sabtu: Rehat. At the bottom of the page, a copyright notice states: Hak Cipta © 2025 KKK. Semua Hak Terpelihara.

Figure 6.13 Member Track Loan Application Page

6.3.2 Apply for a Loan

Figure 6.14 shows the Member Loan Application Page, allowing members to apply for a loan by filling up his details and checking his information and updating if there are any mistakes.



Butir-Butir Pembiayaan

Butir-Butir Peribadi
Pemohon

Pengakuan Pemohon

Butir-Butir Penjamin

Pengesahan Majikan

Akuan Kebenaran

Butir-Butir Pembiayaan

Jenis Pembiayaan *

Al-Bai

Amaun Dipohon *

RM 0.00

Tempoh Pembiayaan *

0

tahun

Ansuran Bulanan *

RM 0.00

*Sila rujuk jadual pembayaran balik pembiayaan skim

Nama Bank/Cawangan *

Affin Bank

Bank Account *

000000000

Butir-Butir Pembiayaan

Butir-Butir Peribadi
Pemohon

Pengakuan Pemohon

Butir-Butir Penjamin

Pengesahan Majikan

Akuan Kebenaran

Gaji Kasar Bulanan *

RM 0.00

Gaji Bersih Bulanan *

RM 0.00

Tandatangan *

Choose File No file chosen

*Fail yang dibenarkan adalah dalam format PNG, JPG dan JPEG sahaja. Sila pastikan saiz fail tidak melebihi 5MB.

Simpan

ALAMAT

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Peti Surat 127,
Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGI KAMI

📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

IKUTI KADA



WAKTU OPERASI

Ahad - Rabu: 08:00 - 17:00
Khamis: 08:00 - 15:30
Jumaat: Rehat
Sabtu: Rehat



Butir-Butir Pembiayaan

Butir-Butir Peribadi Pemohon

Pengakuan Pemohon

Butir-Butir Penjamin

Pengesahan Majikan

Akuan Kebenaran

Butir-Butir Peribadi Pemohon

Nama

Lam Kin Xin

No. Kad Pengenalan

781213-09-0123

Email

lamkinxin@gmail.com

Jantina

 Lelaki Perempuan

Agama

 Islam Buddha Hindu Kristian Lain-lain

Bangsa

 Melayu Cina India Lain-lain

Taraf Perkahwinan

 Bujang Kahwin Cerai Kematian Pasangan

No. Anggota

1003

No. PF

1007

Alamat Rumah

78, Jalan Ah Fook

Poskod

12345

Bandar

Ipoh

Negeri

Pahang

▼

Jawatan Gred

N12

Jawatan

Jurutera

Alamat Pejabat (Tempat Bertugas)

78, Jalan Koperasi

Poskod

51021

Bandar

Kota Bahru

Butir-Butir Pembiayaan Butir-Butir Peribadi Pemohon Pengakuan Pemohon Butir-Butir Penjamin Pengesahan Majikan Akuan Kebenaran	<p>Negeri Kelantan</p> <p>No. Telefon Rumah 061234567</p> <p>No. Telefon Bimbit 0123456789</p> <p>Gaji Bulanan RM 2000</p>	<input type="button" value="Simpan"/>
--	--	---------------------------------------

ALAMAT	HUBUNGI KAMI	WAKTU OPERASI
D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan	HUBUNGI KAMI <i>Telefon:</i> 09-7447088 <i>Email:</i> koperasi_kada@yahoo.com	WAKTU OPERASI Ahad - Rabu: 08:00 - 17:00 Khamis: 08:00 - 15:30 Jumaat: Rehat Sabtu: Rehat

Hak Cipta © 2025 KKK. Semua Hak Terpelihara.

 Butir-Butir Pembiayaan Butir-Butir Peribadi Pemohon Pengakuan Pemohon Butir-Butir Penjamin Pengesahan Majikan Akuan Kebenaran	<h2 style="text-align: center;">Pengakuan Pemohon</h2> <p>Saya Lam Kin Xin</p> <p>No. Kad Pengenalan 781213-09-0123</p> <p>dengan ini memberi kuasa kepada KOPERASI KAKITANGAN KADA KELANTAN BHD atau wakilnya yang sah untuk mendapat apa-apa maklumat yang diperlukan dan juga mendapatkan bayaran balik dari potongan gaji dan emolumen saya sebagaimana amanah yang dipinjamkan. Saya juga bersetuju menerima sebarang keputusan dari KOPERASI ini untuk menolak permohonan tanpa memberi sebarang alasan.</p> <p style="text-align: right;"><input type="radio"/> Setuju</p>	<input type="button" value="Simpan"/>
---	---	---------------------------------------

ALAMAT	HUBUNGI KAMI	WAKTU OPERASI
D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan	HUBUNGI KAMI <i>Telefon:</i> 09-7447088 <i>Email:</i> koperasi_kada@yahoo.com	WAKTU OPERASI Ahad - Rabu: 08:00 - 17:00 Khamis: 08:00 - 15:30 Jumaat: Rehat Sabtu: Rehat

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[Butir-Butir Pembiayaan](#)[Butir-Butir Peribadi Pemohon](#)[Pengakuan Pemohon](#)[Butir-Butir Penjamin](#)[Pengesahan Majikan](#)[Akuan Kebenaran](#)

Butir-Butir Penjamin

Penjamin 1

No. Anggota

Nama

Ali bin Abu

No. Kad Pengenalan

000000-00-0000

No. PF

1001

Tandatangan

 Choose File No file chosen

*Fail yang dibenarkan adalah dalam format PNG, JPG, dan JPEG sahaja. Sila pastikan saiz fail tidak melebihi 5MB.

Penjamin 2

No. Anggota

Nama

Abu bin Ali

No. Kad Pengenalan

000000-00-0000

No. PF

1002

Tandatangan

 Choose File No file chosen

*Fail yang dibenarkan adalah dalam format PNG, JPG, dan JPEG sahaja. Sila pastikan saiz fail tidak melebihi 5MB.

 Simpan**ALAMAT**

📍 D/A Lembaga Kemajuan Pertanian Kemubu
Peti Surat 127,
Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGI KAMI

📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

IKUTI KADA**WAKTU OPERASI**

Ahad - Rabu: 08:00 - 17:00
Khamis: 08:00 - 15:30
Jumaat: Rehat
Sabtu: Rehat

- [Butir-Butir Pembiayaan](#)
- [Butir-Butir Peribadi Pemohon](#)
- [Pengakuan Pemohon](#)
- [Butir-Butir Penjamin](#)
- [Pengesahan Majikan](#)
- [Akuan Kebenaran](#)

Pengesahan Majikan

Gaji Kasar Bulanan

RM

Gaji Bersih Bulanan

RM

Muat Naik Pengesahan Majikan

Choose File

*Fail yang dibenarkan adalah dalam format PDF sahaja. Sila pastikan saiz fail tidak melebihi 5MB.

ALAMAT

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Peti Surat 127,
Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGI KAMI

📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

IKUTI KADA

WAKTU OPERASI

Ahad - Rabu: 08:00 - 17:00
Khamis: 08:00 - 15:30
Jumaat: Rehat
Sabtu: Rehat

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- [Butir-Butir Pembiayaan](#)
- [Butir-Butir Peribadi Pemohon](#)
- [Pengakuan Pemohon](#)
- [Butir-Butir Penjamin](#)
- [Pengesahan Majikan](#)
- [Akuan Kebenaran](#)

Akuan Kebenaran

Saya mengaku bahawa semua maklumat yang diberi adalah benar dan betul. Sekiranya saya didapati memberikan maklumat tidak benar atau palsu, saya boleh disabitkan kesalahan di bawah seksyen 193 Kanun Keseksian (Akta 574) dan boleh dikenakan hukuman penjara selama tempoh yang boleh sampai tiga (3) tahun dan boleh juga dikenakan denda.

Setuju

ALAMAT

📍 D/A Lembaga Kemajuan Pertanian Kemubu
Peti Surat 127,
Bandar Kota Bharu
15710 Kota Bharu
Kelantan

HUBUNGI KAMI

📞 Telefon: 09-7447088
✉️ Email: koperasi_kada@yahoo.com

IKUTI KADA

WAKTU OPERASI

Ahad - Rabu: 08:00 - 17:00
Khamis: 08:00 - 15:30
Jumaat: Rehat
Sabtu: Rehat

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Laman Utama Profil Pinjaman Maklum Balas Berhenti Menjadi Anggota

Log Keluar

Semakan Butiran

Butir-butir Pembiayaan

Kemaskini

Jenis Pembiayaan	Al-Bai'
Amoun Dipohon	RM 10000
Tempoh Pembiayaan	3 tahun
Ansuran Bulanan	RM 312.78
Nama Bank/Cawangan	Affin Bank
Bank Account	123456789
Gaji Kasar Bulanan	RM 3000
Gaji Bersih Bulanan	RM 3000
Tandatangan	

Butir-butir Peribadi Pemohon

Kemaskini

Nama	Lam Kin Xin
No. Kad Pengenalan	781213-09-0123
Email	lamkinxin@gmail.com
Jantina	Lelaki
Agama	Buddha
Bangsa	Cina
Taraf Perkahwinan	Bujang
No. Anggota	1003
No. PF	1007
Alamat Rumah	78, Jalan Ah Fook
Poskod	12345
Bandar	Ipooh
Negeri	Pahang
Jawatan Gred	N12
Jawatan	Jurutera
Alamat Pejabat (Tempat Bertugas)	78, Jalan Koperasi
Poskod	51021
Bandar	Kota Bahru
No. Telefon Rumah	
No. Telefon Bimbit	0123456789
Gaji Bulanan	RM 2000

Butir-butir Penjamin

Kemaskini

Penjamin 1	
No. Anggota	1001
Nama	Pravin A/L Ali
No. Kad Pengenalan	891212-01-1231
No. PF	1006

Tandatangan	
Penjamin 2	
No. Anggota	1004
Nama	Farra bin Razak
No. Kad Pengenalan	960304-03-1234
No. PF	1008
Tandatangan	

Pengesahan Majikan		Kemaskini
Gaji Pokok Bulanan	RM 3000	
Gaji Bersih Bulanan	RM 3000	
Pengesahan Majikan		
		

ALAMAT 📍 D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan	HUBUNGI KAMI 📞 Telefon: 09-7447088 ✉️ Email: koperasi_kada@yahoo.com	WAKTU OPERASI Ahad - Rabu: 08:00 - 17:00 Khamis: 08:00 - 15:30 Jumaat: Rehat Sabtu: Rehat
IKUTI KADA   		
Hak Cipta © 2025 KKK. Semua Hak Terpelihara.		

Figure 6.14 Member Loan Application Page

Member Track Feedback Page

Laman Utama	Profil	Pinjaman	Maklum Balas	Berhenti Menjadi Anggota																				
Status Maklum Balas																								
<input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-right: 10px;" type="button" value="-- Semua Jenis --"/> <input style="width: 100px; height: 20px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 10px; margin-right: 10px;" type="button" value="-- Semua Status --"/> <input style="width: 50px; height: 20px; background-color: #007bff; color: white; border: none; border-radius: 5px; padding: 2px 10px;" type="button" value="Tapis"/>																								
<table border="1"> <thead> <tr> <th colspan="5">Status Maklum Balas</th> <th> Membuat Maklum Balas</th> <th> Kembali</th> </tr> <tr> <th>ID</th> <th>Jenis</th> <th>Tarikh Hantar</th> <th>Status</th> <th>Butiran</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Status Maklum Balas					 Membuat Maklum Balas	 Kembali	ID	Jenis	Tarikh Hantar	Status	Butiran							
Status Maklum Balas					 Membuat Maklum Balas	 Kembali																		
ID	Jenis	Tarikh Hantar	Status	Butiran																				
						ALAMAT 📍 D/A Lembaga Kemajuan Pertanian Kemubu Peti Surat 127, Bandar Kota Bharu 15710 Kota Bharu Kelantan	HUBUNGI KAMI 📞 Telefon: 09-7447088 ✉️ Email: koperasi_kada@yahoo.com	WAKTU OPERASI Ahad - Rabu: 08:00 - 17:00 Khamis: 08:00 - 15:30 Jumaat: Rehat Sabtu: Rehat																
						Hak Cipta © 2025 KKK. Semua Hak Terpelihara.																		

Figure 6.15 Member Track Feedback Page

Member Feedback Page

The screenshot shows a member feedback page with the following details:

Header: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, Log Keluar

Title: Hantar Maklum Balas

Form Fields:

- No. Anggota: 1003
- Nama: Lam Kin Xin
- Jenis Maklum Balas *: -- Pilih Jenis Maklum Balas --
- Maklumat Maklum Balas *: (Large text area)

Buttons: Kembali, Hantar

Footer:

- ALAMAT:** D/A Lembaga Kemajuan Pertanian Kemubu, Peti Surat 127, Bandar Kota Bharu, 15710 Kota Bharu, Kelantan.
- HUBUNGI KAMI:** Telefon: 09-7447088, Email: koperasi_kada@yahoo.com
- WAKTU OPERASI:** Ahad - Rabu: 08:00 - 17:00, Khamis: 08:00 - 15:30, Jumaat: Rehat, Sabtu: Rehat
- IKUTI KADA:** Facebook, Instagram, YouTube icons

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Figure 6.16 Member Feedback Page

6.4 Package 4 Approval Management

Figure 6.17 shows the Admin Dashboard, which allows administrators to view simple statistics about the cooperative.

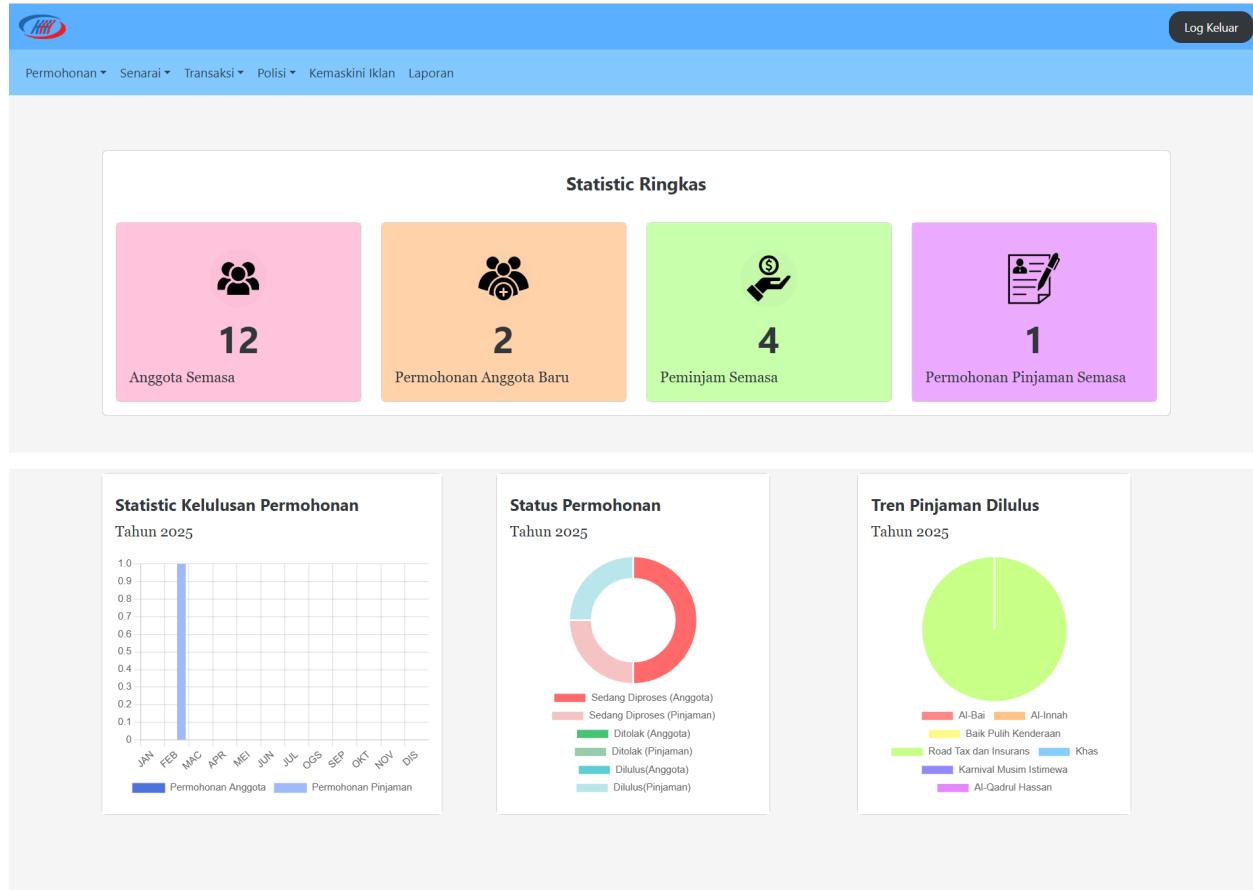


Figure 6.17 Admin Dashboard

6.4.1 Admin Approve New Member Application

Figure 6.18 and 6.19 shows the interface for member application approval. Figure 6.20 and 6.21 show the current member list upon approval, figure 6.22 shows how the user manages the members, while figure 6.23 and 6.24 displays the list and details of past members. In figure 6.18, the list of member applications are displayed. The user can choose to approve all the applications.

Figure 6.18 Admin Approve Member Application

In figure 6.19, the user will be redirected to the details of the member application page when clicking on the “butiran” button. In this interface, the user can perform an approve or reject operation and can manually enter the member number for a new member if approved.

Maklumat Saham Pemohon		
Fee Masuk (RM)		35.00
Modal Yuran (RM)		0.00
Deposit (RM)		0.00
alAbrar (RM)		5.00
Simpanan Tetap (RM)		50.00
Fee Lain (RM)		0.00

Maklumat Pewaris		
Nama Pewaris	No. Kad Pengenalan	Hubungan
Abdul Rahman bin Abdul Malik	510203-08-2345	Orang Tua
Abdul Malik bin Zainal	850201-12-3456	Suami Isteri
Mohd Nizam bin Abdul Rahman	890904-06-2345	Saudara kandung

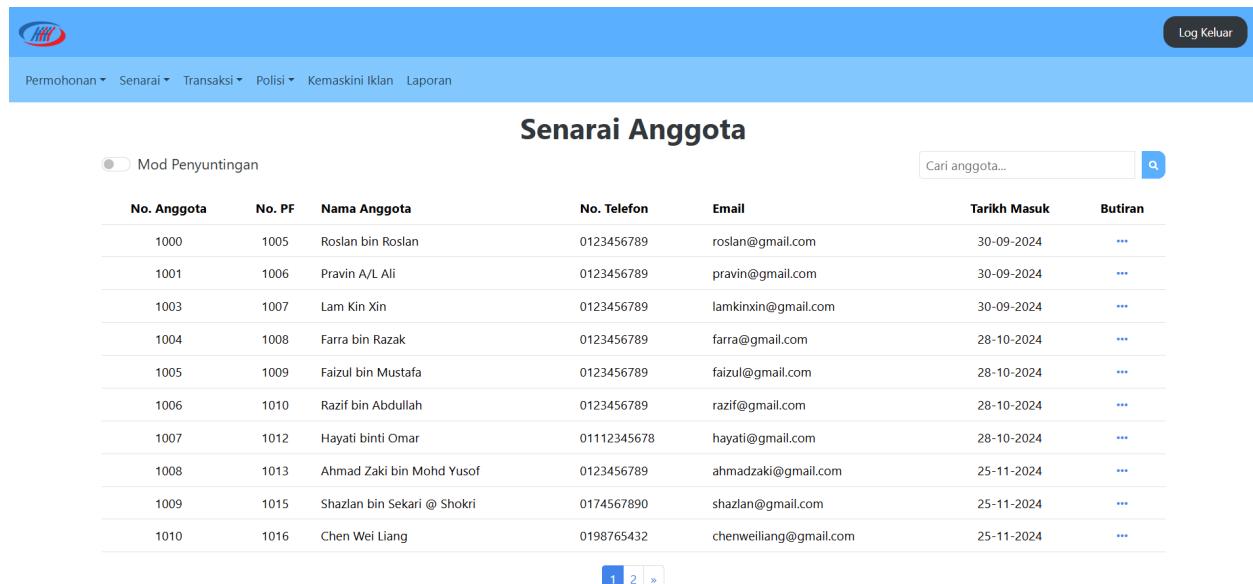
Status Anggota

Pilih Status ▾

Kembali Hantar

Figure 6.19 Admin View Member Application Detail

In figure 6.20, the user can access the current member list. The search bar on the top right corner allows the user to search the member by their member no, PF no and name.



The screenshot shows a web application interface for managing members. At the top, there is a navigation bar with links for Permohonan, Senarai, Transaksi, Polisi, Kemaskini Iklan, Laporan, Log Keluar, and a toggle for Mod Penyuntingan. Below the navigation is a search bar with the placeholder "Cari anggota..." and a magnifying glass icon. The main content area is titled "Senarai Anggota" and displays a table of member records. The table columns are: No. Anggota, No. PF, Nama Anggota, No. Telefon, Email, Tarikh Masuk, and Butiran. Each row contains a set of data corresponding to a member, with a three-dot menu icon at the end of each row. At the bottom of the table, there is a small navigation bar with pages 1, 2, and a double-right arrow.

No. Anggota	No. PF	Nama Anggota	No. Telefon	Email	Tarikh Masuk	Butiran
1000	1005	Roslan bin Roslan	0123456789	roslan@gmail.com	30-09-2024	...
1001	1006	Pravin A/L Ali	0123456789	pravin@gmail.com	30-09-2024	...
1003	1007	Lam Kin Xin	0123456789	lamkinxin@gmail.com	30-09-2024	...
1004	1008	Farra bin Razak	0123456789	farrab@gmail.com	28-10-2024	...
1005	1009	Faizul bin Mustafa	0123456789	faizul@gmail.com	28-10-2024	...
1006	1010	Razif bin Abdullah	0123456789	razif@gmail.com	28-10-2024	...
1007	1012	Hayati binti Omar	01112345678	hayati@gmail.com	28-10-2024	...
1008	1013	Ahmad Zaki bin Mohd Yusof	0123456789	ahmadzaki@gmail.com	25-11-2024	...
1009	1015	Shazlan bin Sekari @ Shokri	0174567890	shazlan@gmail.com	25-11-2024	...
1010	1016	Chen Wei Liang	0198765432	chenweiliang@gmail.com	25-11-2024	...

Figure 6.20 Admin View Current Member List Page

In figure 6.21, the user can view all the details of members.

The screenshot shows a web application interface for viewing member details. At the top, there is a blue header bar with a logo on the left, a 'Log Keluar' button on the right, and a navigation menu with links: Permohonan ▾, Senarai ▾, Transaksi ▾, Polisi ▾, Kemaskini Iklan, and Laporan.

The main content area is titled 'Maklumat Anggota'. It contains four tabs:

- Maklumat Peribadi Ahli**: Displays personal information for member No. Aplikasi Anggota 2, including Name (Roslan bin Roslan), Gender (Lelaki), Religion (Islam), Ethnicity (Melayu), Marital Status (Kahwin), Address (67, Jalan Duta, 10000 Duta, Kelantan), and Phone Number (0123456789).
- Maklumat Saham Ahli**: Displays financial information for member No. Aplikasi Anggota 2, including Entry Fee (Fee Masuk) of RM 35.00, Yuran (Modal Yuran) of RM 0.00, Deposit of RM 0.00, and alAbrar (alAbrar) of RM 5.00. It also lists Fixed Savings (Simpanan Tetap) of RM 50.00 and Other Fees (Fee Lain) of RM 0.00.
- Maklumat Pewaris**: Displays inheritance information for member No. Aplikasi Anggota 2, listing three heirs: Roslan bin Ayah (Relation: Orang Tua), Siti bin Vali (Relation: Orang Tua), and Faris bin Roslan (Relation: Saudara kandung). Each heir is associated with their respective Kad Pengenalan numbers.
- A bottom navigation bar with a 'Kembali' (Back) button.

Figure 6.21 Admin View Current Member Detail Page

In figure 6.22, the user manages the member when switching on the editing mode by the switch. The user can either change the member status to resign or retire.

Permohonan ▾ Senarai Anggota ▾ Senarai Peminjam ▾ Transaksi ▾ Polisi ▾ Kemaskini Iklan Maklum Balas Laporan

Log Keluar

Senarai Anggota Semasa

Mod Penyuntingan

Cari anggota...



No. Anggota	No. PF	Nama Anggota	No. Telefon	Email	Status	Tarikh Masuk	Butiran	Tindakan
1000	1005	Roslan bin Roslan	0123456789	roslan@gmail.com	Pencen	30-09-2024	...	Pencen ▾
1001	1006	Pravin A/L Ali	0123456789	pravin@gmail.com	Aktif	30-09-2024	...	Pilih Status ▾
1003	1007	Lam Kin Xin	0123456789	lamkinxin@gmail.com	Aktif	30-09-2024	...	Pilih Status ▾
1004	1008	Farra bin Razak	0123456789	farra@gmail.com	Aktif	28-10-2024	...	Pilih Status ▾
1005	1009	Faizul bin Mustafa	0123456789	faizul@gmail.com	Aktif	28-10-2024	...	Pilih Status ▾
1006	1010	Razif bin Abdullah	0123456789	razif@gmail.com	Aktif	28-10-2024	...	Pilih Status ▾
1007	1012	Hayati binti Omar	01112345678	hayati@gmail.com	Aktif	28-10-2024	...	Pilih Status ▾
1008	1013	Ahmad Zaki bin Mohd Yusof	0123456789	ahmadzaki@gmail.com	Aktif	25-11-2024	...	Pilih Status ▾
1009	1015	Shazlan bin Sekari @ Shokri	0174567890	shazlan@gmail.com	Aktif	25-11-2024	...	Pilih Status ▾

Figure 6.22 Admin Manage Current Member Page

In figure 6.23, the user can access the past member list. The search bar on the top right corner allows the user to search the past member by their member no, PF no and name.

Permohonan ▾ Senarai Anggota ▾ Senarai Peminjam ▾ Transaksi ▾ Polisi ▾ Kemaskini Iklan Maklum Balas Laporan

Log Keluar

Cari anggota...

1

Senarai Anggota Lepas

Cari anggota...



No. Applikasi	No. PF	Nama	No. Telefon	Email	Status	Tarikh Berhenti	Butiran
2	1012	Hayati binti Omar	01112345678	hayati@gmail.com	Berhenti	28-10-2024	...
1	1015	Shazlan bin Sekari @ Shokri	0174567890	shazlan@gmail.com	Berhenti	25-11-2024	...

Figure 6.23 Admin View Past Member List Page

In figure 6.24, the user can view the details of a past member.

Permohonan ▾ Senarai Anggota ▾ Senarai Peminjam ▾ Transaksi ▾ Polisi ▾ Kemaskini Iklan Maklum Balas Laporan

Log Keluar

Maklumat Anggota Lepas

Maklumat Peribadi Anggota Lepas	
No. Aplikasi Anggota	9
No. Anggota	1007
Nama Anggota	Hayati binti Omar
Jantina	Perempuan
Alamat Rumah	10, Jalan Seri Cahaya, Taman Aman, 20000 Kuala Terengganu, Terengganu
No. Telefon	01112345678
No. Telefon Rumah	N/A
No. Fax	N/A
Email	hayati@gmail.com

Maklumat Berhenti Sebagai Anggota	
No. Aplikasi	2
Alasan	Tiada alasan spesifik.
Tarikh Berhenti	2025-02-05 04:24:10
Admin yang Luluskan	12345678

[Kembali](#)

Figure 6.24 Admin View Past Member Detail Page

6.4.2 Admin Approve Loan Application

Figure 6.25 and 6.26 shows the interface for loan application approval. Figure 6.27 and 6.28 shows the list and details of the loan application. Figure 6.29 and figure 6.30 shows the list and details of the past loan applications. In figure 6.23, the list of loan applications are displayed. The user can choose to approve all the applications.

Pilih Semua	No. Pinjaman	No. Anggota	Nama Anggota	Jenis Pinjaman	Jumlah Permohonan (RM)	Tempoh Pinjaman (Bulan)	Ansuran Bulanan (RM)	Tarikh Pohon	Butiran
<input type="checkbox"/>	9	1000	Roslan bin Roslan	4	5,000.00	5	100.83	21-01-2025	...
<input type="checkbox"/>	13	1033	Goe Jie Ying	5	4,000.00	4	97.33	03-02-2025	...
<input type="checkbox"/>	15	1033	Goe Jie Ying	3	3,000.00	5	60.50	04-02-2025	...
<input type="checkbox"/>	16	1003	Lam Kin Xin	2	4,000.00	3	125.11	04-02-2025	...

1

[Lulus](#) [Tolak](#)

Figure 6.25 Admin Approve Loan Application

In figure 6.26, the user will be redirected to the details of the loan application page when clicking on the “butiran” button. In this interface, the user can view the details and “Pengesahan Majikan” then perform an approve or reject operation.

Log Keluar

[Permohonan](#) ▾ [Senarai Anggota](#) ▾ [Senarai Peminjam](#) ▾ [Transaksi](#) ▾ [Polisi](#) ▾ [Kemaskini Iklan](#) [Maklum Balas](#) [Laporan](#)

Maklumat Peminjam

Maklumat Peribadi Pemohon

No. Aplikasi Pinjaman	9
No. Anggota	1000
Nama Peminjam	1005
Nama Anggota	Roslan bin Roslan
Jenis Pinjaman	Road Tax dan Insurans
Jumlah Pinjaman (RM)	5,000.00
Tempoh Pinjaman	5
Ansuran Bulanan (RM)	100.83
Akaun Bank	1234567890
Nama Bank	Affin Bank
Gaji Kasar (RM)	3,000.00
Gaji Bersih (RM)	2,800.00
Tandatangan	<i>roslan</i>
Pengesahan Majikan	Lihat
Tarikh Pohon	2025-01-21 22:56:57

Maklumat Penjamin 1

No. Anggota	1003
Nama Penjamin	Lam Kin Xin
No. Kad Pengenalan	781213-09-0123
No. PF	1007
Tandatangan Penjamin 1	<i>kin sing</i>

Maklumat Penjamin 2

No. Anggota	1011
Nama Penjamin	Shalini Devi
No. Kad Pengenalan	890301-12-0111
No. PF	1016
Tandatangan Penjamin 2	<i>Shalini</i>

Status Pinjaman

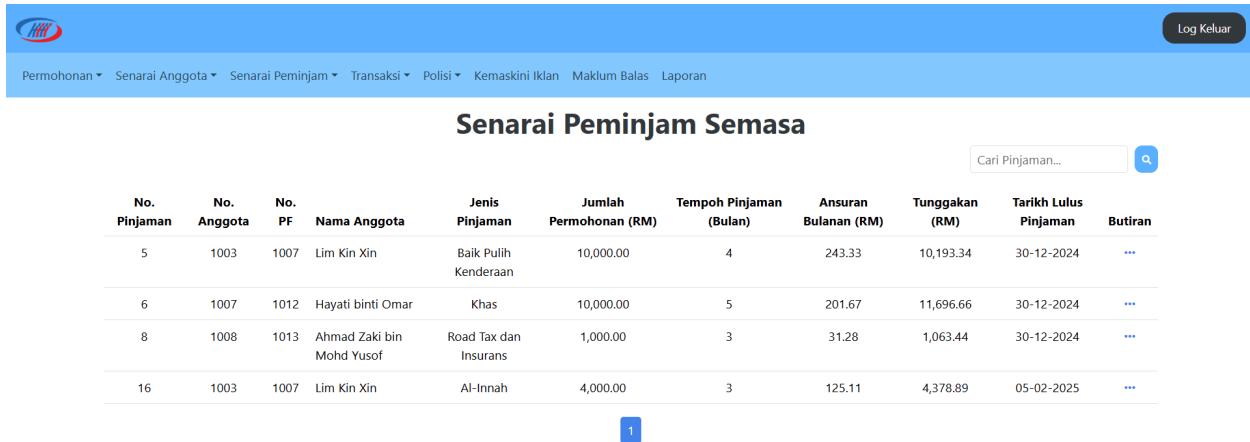
Pilih Status ▾

Kembali

Hantar

Figure 6.26 Admin View Loan Application Detail

In figure 6.27, the user can access the current loan application list. The search bar on the top right corner allows the user to search the loan applications by the loan id, member no, PF no, member name and the type of loans.



The screenshot shows a web application interface for managing loan borrowers. At the top, there is a blue header bar with the logo 'MFI' on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes links for Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, and Laporan. The main content area has a title 'Senarai Peminjam Semasa' (Current Borrower List) centered above a table. The table has columns for No. Pinjaman, No. Anggota, No. PF, Nama Anggota, Jenis Pinjaman, Jumlah Permohonan (RM), Tempoh Pinjaman (Bulan), Ansuran Bulanan (RM), Tunggakan (RM), Tarikh Lulus Pinjaman, and Butiran. There are four rows of data in the table, each with a '...' link at the end. A search bar with placeholder text 'Cari Pinjaman...' and a magnifying glass icon is located above the table. A small blue square with the number '1' is positioned below the table.

No. Pinjaman	No. Anggota	No. PF	Nama Anggota	Jenis Pinjaman	Jumlah Permohonan (RM)	Tempoh Pinjaman (Bulan)	Ansuran Bulanan (RM)	Tunggakan (RM)	Tarikh Lulus Pinjaman	Butiran
5	1003	1007	Lim Kin Xin	Baik Pulih Kenderaan	10,000.00	4	243.33	10,193.34	30-12-2024	...
6	1007	1012	Hayati binti Omar	Khas	10,000.00	5	201.67	11,696.66	30-12-2024	...
8	1008	1013	Ahmad Zaki bin Mohd Yusof	Road Tax dan Insurans	1,000.00	3	31.28	1,063.44	30-12-2024	...
16	1003	1007	Lim Kin Xin	Al-Innah	4,000.00	3	125.11	4,378.89	05-02-2025	...

Figure 6.27 Admin View Current Loan Borrower List Page

In figure 6.28, the user can view the details of the loan application.



The screenshot shows a web application interface for viewing loan application details. At the top, there is a blue header bar with the logo 'MFI' on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes links for Permohonan, Senarai, Transaksi, Polisi, Kemaskini Iklan, and Laporan. The main content area has a title 'Maklumat Peminjam' (Borrower Information) centered above two tables. The first table, titled 'Maklumat Pinjaman' (Loan Information), contains the following details:

No. Aplikasi Pinjaman	9
Jenis Pinjaman	Road Tax dan Insurans
Jumlah Pinjaman (RM)	5,000.00
Tempoh Pinjaman (Bulan)	5
Ansuran Bulanan (RM)	100.83
Tunggakan (RM)	6,050.00

The second table, titled 'Maklumat Peribadi Peminjam' (Borrower Personal Information), contains the following details:

No. Anggota	1000
No. PF	1005

Nama Anggota	Roslan bin Roslan
Akaun Bank	1234567890
Nama Bank	Affin Bank
Gaji Kasar (RM)	3,000.00
Gaji Bersih (RM)	2,800.00
Tarikh Pohon	2025-01-21 22:56:57
Tarikh Lulus	2025-02-03 09:43:51

Maklumat Penjamin 1	
No. Anggota	1003
Nama Penjamin	Lam Kin Xin
No. Kad Pengenalan	781213-09-0123
No. PF	1007

Maklumat Penjamin 2	
No. Anggota	1011
Nama Penjamin	Shalini Devi
No. Kad Pengenalan	890301-12-0111
No. PF	1016

Kembali

Figure 6.28 Admin View Current Loan Borrower Detail Page

In figure 6.29, the user can view the list of paid off loan applications.



The screenshot shows a web application interface for managing loan applications. At the top, there is a blue header bar with the KPI logo on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes links for Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, and Laporan. The main content area has a title 'Senarai Peminjam Lepas' (List of Paid Off Borrowers) centered above a table. The table has the following columns: No. Pinjaman, No. Anggota, No. PF, Nama Anggota, Jenis Pinjaman, Jumlah Permohonan (RM), Tempoh Pinjaman (Bulan), Ansuran Bulanan (RM), and Butiran. There is one row of data in the table:

No. Pinjaman	No. Anggota	No. PF	Nama Anggota	Jenis Pinjaman	Jumlah Permohonan (RM)	Tempoh Pinjaman (Bulan)	Ansuran Bulanan (RM)	Butiran
4	1003	1007	Lim Kin Xin	Baik Pulih Kenderaan	2,000.00	2	91.67	...

At the bottom center of the table is a small blue square button with the number '1' in white. To the right of the table is a search bar with the placeholder 'Cari Pinjaman...' and a magnifying glass icon.

Figure 6.29 Admin View Pass Loan Borrower List Page

In figure 6.30, the user can view the details of the paid off loan application.

The screenshot displays a web-based application interface for managing loan applications. At the top, there is a blue header bar with a logo on the left and a "Log Keluar" button on the right. Below the header, a navigation menu includes "Permohonan", "Senarai Anggota", "Senarai Peminjam", "Transaksi", "Polisi", "Kemaskini Iklan", "Maklum Balas", and "Laporan".

The main content area features four tabs, each containing a table of information:

- Maklumat Pinjaman**:

No. Aplikasi Pinjaman	4
Jenis Pinjaman	Baik Pulih Kenderaan
Jumlah Pinjaman (RM)	2,000.00
Tempoh Pinjaman (Bulan)	2
Ansuran Bulanan (RM)	91.67
Tunggakan (RM)	0.00
- Maklumat Peribadi Peminjam**:

No. Anggota	1003
No. PF	1007
Nama Anggota	Lam Kin Xin
Akaun Bank	1234567890
Nama Bank	CIMB
Gaji Kasar (RM)	2,000.00
Gaji Bersih (RM)	1,800.00
Tarikh Pohon	2024-11-15 20:29:55
Tarikh Lulus	2024-11-25 13:33:49
- Maklumat Penjamin 1**:

No. Anggota	1001
Nama Penjamin	Pravin A/L Ali
No. Kad Pengenalan	891212-01-1231
No. PF	1006
- Maklumat Penjamin 2**:

No. Anggota	1000
Nama Penjamin	Roslan bin Roslan
No. Kad Pengenalan	010101-01-0101
No. PF	1005

At the bottom center of the page is a blue "Kembali" button.

Figure 6.30 Admin View Pass Loan Borrower Detail Page

6.4.3 Admin Approve Membership Termination Application

Figure 6.31 and 6.32 shows the interface for membership termination application approval. In figure 6.31, the list of membership termination applications are displayed. The user can click the “Lihat Alasan” to view the reason and do operations (approve / reject) for all applications.

The screenshot shows a web application for managing membership termination requests. At the top, there is a blue header bar with the logo 'MFI' on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes 'Permohonan', 'Senarai Anggota', 'Senarai Peminjam', 'Transaksi', 'Polisi', 'Kemaskini Iklan', 'Maklum Balas', and 'Laporan'. The main content area has a title 'Permohonan Berhenti Menjadi Anggota' (Membership Termination Application). A table lists two applications:

<input type="checkbox"/> Select All	ID	No. Anggota	Nama	Alasan	Tarikh Hantar	Butiran
<input type="checkbox"/>	1	1009	Shazlan bin Sekari @ Shokri	Lihat Alasan	24-01-2025	...
<input type="checkbox"/>	2	1007	Hayati binti Omar	Lihat Alasan	24-01-2025	...

Below the table, there is a small blue box containing the number '1'. At the bottom, there are two buttons: 'Lulus' (Approved) in green and 'Tolak' (Rejected) in red.

Figure 6.31 Admin Approve Membership Termination Application

In figure 6.32, the user will be redirected to the details of the membership termination application page when clicking on the “butiran” button. In this interface, the user can perform an approve or reject operation after viewing all details.

The screenshot shows a web-based administrative interface for managing membership termination applications. At the top, there is a blue header bar with the logo 'MFI' on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes 'Permohonan', 'Senarai Anggota', 'Senarai Peminjam', 'Transaksi', 'Polisi', 'Kemaskini Iklan', 'Maklum Balas', and 'Laporan'. The main content area is titled 'Maklumat Pemohon'.

Maklumat Peribadi Pemohon

No. Aplikasi Anggota	22
No. PF	1016
Nama Anggota	Goe Jie Ying
No. Kad Pengenalan	040622-01-0101
No. Telefon	0167846693
Email	goeying@graduate.utm.my
Jawatan	Pegawai Biasa
Gred	N17
Gaji Bulanan (RM)	7,800.00

Maklumat Saham Pemohon

Fee Masuk (RM)	50.00
Modal Yuran (RM)	35.00
Deposit (RM)	0.00
alAbrar (RM)	5.00
Simpanan Tetap (RM)	0.00
Fee Lain (RM)	0.00

Alasan Pemohon

Saya penat

Status

Pilih Status ▾

Figure 6.32 Admin View Membership Termination Application Detail

Admin View Feedback List Page

The screenshot shows a web application interface for managing feedback. At the top, there is a blue header bar with a logo on the left and a "Log Keluar" button on the right. Below the header, a navigation menu includes "Permohonan", "Senarai", "Transaksi", "Polisi", "Kemaskini Iklan", and "Laporan". The main content area has a title "Senarai Maklum Balas" (Feedback List). Below the title are three dropdown filters: "Semua Jenis", "Semua Status", and a "Tapis" (Filter) button. A table lists two feedback entries:

ID	Jenis	Status	Tarikh Hantar	Butiran
2	Masalah	Sedang Diproses	24-01-2025 12:37:38	...
1	Cadangan	Diterima	24-01-2025 12:37:30	...

A small blue square with the number "1" is positioned at the bottom center of the page.

Figure 6.33 Admin View Feedback List Page

Admin Manage Feedback Page

The screenshot displays the Admin Manage Feedback Page interface. At the top, there is a blue header bar with the logo 'MFI' on the left and navigation links: Laman Utama, Profil, Pinjaman, Maklum Balas, Berhenti Menjadi Anggota, and Log Keluar on the right.

Butiran Maklum Balas

Butiran Maklum Balas	
ID	2
No. Anggota	1001
Nama Anggota	Pravin A/L Ali
Jenis	Masalah
Kandungan	Warna biru bukan warna kegemaran saya.
Tarikh Hantar	2025-01-24 12:37:38
Status	Sedang Diproses
No. Pentadbir	12345678
Komen Pentadbir	N/A
Tarikh Disemak	2025-01-24 12:40:45

Ubah Status dan Komen

Ubah Status *

Sedang Diproses

Komen Pentadbir

Masukkan komen anda

Kembali **Kemaskini**

Figure 6.34 Admin Manage Feedback Page

6.5 Package 5 Admin Updating

6.5.1 Record Transactions

There are two methods to record transactions, either by salary deduction or ad-hoc transactions.

Figure 6.34 and 6.35 shows the interface for salary deduction. In figure 6.34, the list of active members and their financial details are displayed. The user can filter the results by the year and month for the members that have not made salary deduction where he or she shall; or by member no. The user shall select the members where the salary deduction should be recorded, and select the year and month of the salary deducted.

The screenshot shows a web-based administrative interface for managing member transactions. At the top, there is a navigation bar with links for 'Permohonan', 'Senarai', 'Transaksi', 'Polisi', 'Kemaskini Iklan', and 'Laporan'. On the far right, there is a 'Log Keluar' button. Below the navigation bar, the page title is 'Transaksi'. A search bar labeled 'Cari Anggota' is present, along with dropdown menus for 'Pilih Bulan' and 'Pilih Tahun', and a 'Tapis' button. There is also a 'No Anggota' input field and a 'Cari' button. The main content area displays a table of member data. The columns include: 'Select All' (checkbox), 'No Ahli' (member ID), 'Nama' (name), 'Modah Syer', 'Modal Yuran', 'Simpanan Tetap', 'Tabung Anggota', 'Simpanan Anggota', 'Al-Bai', 'Al-Innah', 'Baik Pulih', 'Kenderaan', 'Road Tax dan Insurans', 'Khas', 'Karnival Musim Istimewa', 'Al-Qadrul Hassan', and 'Dikemaskini'. Below the table, there are page navigation buttons (1, 2, ») and a section titled 'Potongan Gaji untuk bulan' with dropdown menus for 'Januari' and '2025', followed by a 'Potongan Gaji' button.

Select All	No Ahli	Nama	Modah Syer	Modal Yuran	Simpanan Tetap	Tabung Anggota	Simpanan Anggota	Al-Bai	Al-Innah	Baik Pulih	Kenderaan	Road Tax dan Insurans	Khas	Karnival Musim Istimewa	Al-Qadrul Hassan	Dikemaskini
<input type="checkbox"/>	1000	Roslan bin Roslan	400.00	0.00	50.00	20.00	0.00	0.00	0.00	0.00	0.00	6,050.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1001	Pravin A/L Ali	200.00	0.00	50.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1003	Lam Kin Xin	300.00	0.00	150.00	20.00	50.00	0.00	0.00	13,361.66	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1004	Farra bin Razak	150.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1005	Faizul bin Mustafa	150.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1006	Razif bin Abdullah	150.00	0.00	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1007	Hayati binti Omar	300.00	0.00	50.00	15.00	0.00	0.00	0.00	0.00	0.00	11,898.33	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1008	Ahmad Zaki bin Mohd Yusof	550.00	0.00	50.00	10.00	0.00	0.00	0.00	0.00	0.00	1,094.72	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1009	Shazlan bin Sekari @ Shokri	100.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025
<input type="checkbox"/>	1010	Chen Wei Liang	100.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21-01-2025

Potongan Gaji untuk bulan

Januari 2025

Potongan Gaji

Figure 6.34 Admin Salary Deduction Page

Figure 6.35 shows the list of members selected from Figure 6.34. The member information and the status changes are displayed. If the member has a loan that shall be repaid, the monthly instalment is also considered. If the member already has a record for salary deduction for the selected month, or if the member is approved after the cut-off day, a warning message is displayed. The admin can then enter the receipt number and upload the receipt.

The screenshot displays a web-based administrative interface for managing member transactions. At the top, there is a navigation bar with links for Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, and Laporan. On the far right of the header is a 'Log Keluar' button. The main content area is titled 'Pengesahan Transaksi Potongan Gaji' (Approval of Salary Deduction Transaction). Below the title, there is a table for each member, showing their details, current status, changes, and actions. A red callout box indicates a warning for member 1011 about a transaction existing for the month. Member 1014 has a red callout box indicating they were approved on 27-02-2025. At the bottom, there is a section for uploading proof documents.

No Ahli	Nama	Perubahan Status				Tindakan							
1011	Shalini Devi	Perkara	Status Semasa	Perubahan	Status Baharu	Amaran: Transaksi telah wujud untuk bulan ini! <input type="button" value="Keluarkan"/>							
		Modah Syer	115.00	50.00	165.00								
		Tabung Anggota	15.00	5.00	20.00								
		Jumlah Potongan Gaji: RM 55.00											
1012	Hasidah binti Ishak	Perkara	Status Semasa	Perubahan	Status Baharu	<input type="button" value="Keluarkan"/>							
		Modah Syer	65.00	50.00	115.00								
		Tabung Anggota	10.00	5.00	15.00								
		Jumlah Potongan Gaji: RM 55.00											
1008	Ahmad Zaki bin Mohd Yusof	Perkara	Status Semasa	Perubahan	Status Baharu	<input type="button" value="Keluarkan"/>							
		Tabung Anggota	15.00	5.00	20.00								
		Simpanan Tetap	65.00	50.00	115.00								
		<table border="1"> <thead> <tr> <th>ID</th> <th>Pinjaman</th> <th>Tunggakan Semasa</th> <th>Bayaran</th> <th>Tunggakan Baharu</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>Road Tax dan Insurans</td> <td>1,063.44</td> <td>31.28</td> <td>1,032.16</td> </tr> </tbody> </table> Jumlah Potongan Gaji: RM 86.28					ID	Pinjaman	Tunggakan Semasa	Bayaran	Tunggakan Baharu	8	Road Tax dan Insurans
ID	Pinjaman	Tunggakan Semasa	Bayaran	Tunggakan Baharu									
8	Road Tax dan Insurans	1,063.44	31.28	1,032.16									
1013	Kamaluddin bin Mahmud	Perkara	Status Semasa	Perubahan	Status Baharu	<input type="button" value="Keluarkan"/>							
		Modah Syer	0.00	15.00	15.00								
		Modal Yuran	0.00	35.00	35.00								
		Tabung Anggota	0.00	5.00	5.00								
Jumlah Potongan Gaji: RM 55.00													
1014	Zainab binti Abdul Rahman	Perkara	Status Semasa	Perubahan	Status Baharu	Amaran: Anggota diluluskan pada 27-02-2025 <input type="button" value="Keluarkan"/>							
		Modah Syer	0.00	15.00	15.00								
		Modal Yuran	0.00	35.00	35.00								
		Tabung Anggota	0.00	5.00	5.00								
Jumlah Potongan Gaji: RM 55.00													

Muat Naik Bukti

No. Resit

Bukti Transaksi

Choose File No file chosen

Figure 6.35 Admin Review Salary Deduction Page

Figure 6.36 shows the interface for ad-hoc transactions. After the user enters the member number, the personal information, financial information and loan information of the member. The user can then enter the transaction amount and the transaction information.

The screenshot displays the 'Transaksi Lain' (Other Transaction) page. At the top, there is a navigation bar with links: Permohonan, Senarai, Transaksi, Polisi, Kemaskini Iklan, Laporan, and Log Keluar. Below the navigation bar, the page title 'Transaksi Lain' is centered. A search field labeled 'No Anggota' is present. The main content area is divided into three sections: 'Maklumat Anggota' (Member Information), 'Maklumat Saham Ahli' (Member Share Information), and 'Maklumat Pinjaman Ahli' (Member Loan Information).

Maklumat Anggota

Name	Lam Kin Xin
IC	781213-09-0123
No. Anggota	1003
No. PF	1007

Maklumat Saham Ahli

	Status Semasa	Perubahan	Status Baru
Modal Syer	300.00	0.00	300.00
Modal Yuran	0.00	0.00	0.00
Simpanan Tetap	150.00	0.00	150.00
Simpanan Anggota	50.00	0.00	50.00
Tabung Anggota	20.00	0.00	20.00

Maklumat Pinjaman Ahli

ID	Pinjaman	Tunggakan Semasa	Ansuran Bulanan	Bayaran	Tunggakan Baharu
4	Baik Pulih Kenderaan	1,924.99	91.67	0.00	1,924.99
5	Baik Pulih Kenderaan	11,436.67	243.33	0.00	11,436.67

Jumlah Bayaran: RM 0.00

Ulasan

No. Resit

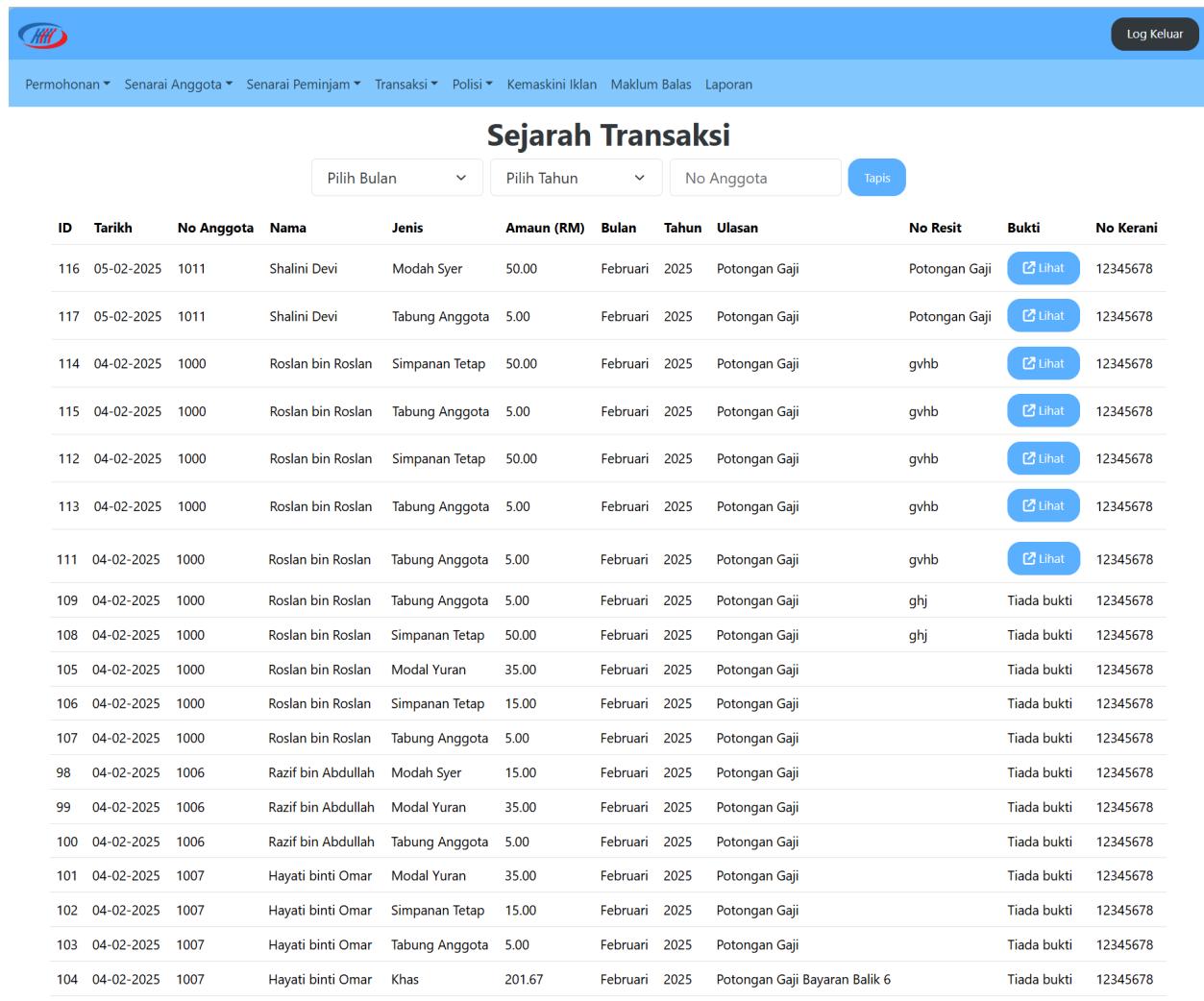
Bukti Transaksi

Choose File No file chosen

Hantar

Figure 6.36 Admin Record Transaction Page

Figure 6.37 shows the transaction history of the member. The user can view the list of transactions made and filter the results by year, month or the member number.



The screenshot displays a web-based application interface for managing transaction history. At the top, there is a blue header bar with the KMF logo on the left and a 'Log Keluar' button on the right. Below the header, a navigation menu includes links for Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, and Laporan. The main content area is titled 'Sejarah Transaksi' (Transaction History). It features a table with the following columns: ID, Tarikh, No Anggota, Nama, Jenis, Amaun (RM), Bulan, Tahun, Ulasan, No Resit, Bukti, and No Kerani. The table contains 20 rows of transaction data. Each row includes a 'Lihat' button next to the 'Bukti' column. The last row shows a total amount of 201.67. At the bottom of the table, there is a navigation bar with page numbers 1 through 6 and a '»' symbol.

ID	Tarikh	No Anggota	Nama	Jenis	Amaun (RM)	Bulan	Tahun	Ulasan	No Resit	Bukti	No Kerani
116	05-02-2025	1011	Shalini Devi	Modah Syer	50.00	Februari	2025	Potongan Gaji	Potongan Gaji	<button>Lihat</button>	12345678
117	05-02-2025	1011	Shalini Devi	Tabung Anggota	5.00	Februari	2025	Potongan Gaji	Potongan Gaji	<button>Lihat</button>	12345678
114	04-02-2025	1000	Roslan bin Roslan	Simpanan Tetap	50.00	Februari	2025	Potongan Gaji	gvhb	<button>Lihat</button>	12345678
115	04-02-2025	1000	Roslan bin Roslan	Tabung Anggota	5.00	Februari	2025	Potongan Gaji	gvhb	<button>Lihat</button>	12345678
112	04-02-2025	1000	Roslan bin Roslan	Simpanan Tetap	50.00	Februari	2025	Potongan Gaji	gvhb	<button>Lihat</button>	12345678
113	04-02-2025	1000	Roslan bin Roslan	Tabung Anggota	5.00	Februari	2025	Potongan Gaji	gvhb	<button>Lihat</button>	12345678
111	04-02-2025	1000	Roslan bin Roslan	Tabung Anggota	5.00	Februari	2025	Potongan Gaji	gvhb	<button>Lihat</button>	12345678
109	04-02-2025	1000	Roslan bin Roslan	Tabung Anggota	5.00	Februari	2025	Potongan Gaji	ghj	Tiada bukti	12345678
108	04-02-2025	1000	Roslan bin Roslan	Simpanan Tetap	50.00	Februari	2025	Potongan Gaji	ghj	Tiada bukti	12345678
105	04-02-2025	1000	Roslan bin Roslan	Modal Yuran	35.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
106	04-02-2025	1000	Roslan bin Roslan	Simpanan Tetap	15.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
107	04-02-2025	1000	Roslan bin Roslan	Tabung Anggota	5.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
98	04-02-2025	1006	Razif bin Abdullah	Modah Syer	15.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
99	04-02-2025	1006	Razif bin Abdullah	Modal Yuran	35.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
100	04-02-2025	1006	Razif bin Abdullah	Tabung Anggota	5.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
101	04-02-2025	1007	Hayati binti Omar	Modal Yuran	35.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
102	04-02-2025	1007	Hayati binti Omar	Simpanan Tetap	15.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
103	04-02-2025	1007	Hayati binti Omar	Tabung Anggota	5.00	Februari	2025	Potongan Gaji		Tiada bukti	12345678
104	04-02-2025	1007	Hayati binti Omar	Khas	201.67	Februari	2025	Potongan Gaji Bayaran Balik 6		Tiada bukti	12345678

Figure 6.37 Admin View Transaction History

6.5.2 Update Policies

The policies are divided into 3 categories, namely policies for member application, policies for loan application, and policies for salary deduction. Figure 6.38 shows the main page of the update policies.

The screenshot displays a web-based administrative interface for managing policies. It features a top navigation bar with links for 'Permohonan', 'Senarai Anggota', 'Senarai Peminjam', 'Transaksi', 'Polisi', 'Kemaskini Iklan', 'Maklum Balas', 'Laporan', and 'Log Keluar'. Below the navigation is a title 'Kemaskini Polisi'.

- Polisi Asas Pemohonan Anggota:** This section lists various fees and minimum amounts. The data is as follows:

Item	Value
Fee Masuk	RM40.00
Fee Masuk Anggota yang Pernah Menjadi Anggota	RM100.00
Modah Syer Minimum	RM300.00
Modal Yuran Minimum	RM35.00
Wang Deposit Anggota Minimum	RM5.00
Sumbangan Tabung Kebajikan Minimum	RM5.00
Simpanan Tetap Minimum	RM0.00
Lain-lain	RM0.00
- Polisi Permohonan Pembayaran:** This section lists maximum loan amounts and terms. The data is as follows:

Item	Value
Modal Syer Minimum Peminjam	RM 300.00
Tempoh Ansuran Maksima	7 tahun
Kadar Keuntungan	4.2%
Pembayaran Maksima Al-Bai	RM 10,000.00
Pembayaran Maksima Al-Innah	RM 10,000.00
Pembayaran Maksima Baik Pulih Kenderaan	RM 4,500.00
Pembayaran Maksima Cukai Jalan dan Insurans	RM 4,500.00
Pembayaran Maksima Skim Khas	RM 10,000.00
Pembayaran Maksima Karnival Musim Istimewa	RM 10,000.00
Pembayaran Maksima Al-Qadrul Hassan	RM 10,000.00
- Jadual Pembayaran Balik Pembayaran:** This section displays a table of monthly repayment amounts based on loan amount and duration. The data is as follows:

Jumlah Pembayaran	Ansuran Bulanan						
	Kadar Keuntungan 4.20 %						
Tempoh (Tahun)	1	2	3	4	5	6	7
Tempoh (Bulan)	12	24	36	48	60	72	84
1,000.00	86.83	45.17	31.28	24.33	20.17	17.39	15.40
2,000.00	173.67	90.33	62.56	48.67	40.33	34.78	30.81
3,000.00	260.50	135.50	93.83	73.00	60.50	52.17	46.21
4,000.00	347.33	180.67	125.11	97.33	80.67	69.56	61.62
5,000.00	434.17	225.83	156.39	121.67	100.83	86.94	77.02
6,000.00	521.00	271.00	187.67	146.00	121.00	104.33	92.43
7,000.00	607.83	316.17	218.94	170.33	141.17	121.72	107.83
8,000.00	694.67	361.33	250.22	194.67	161.33	139.11	123.24
9,000.00	781.50	406.50	281.50	219.00	181.50	156.50	138.64
10,000.00	868.33	451.67	312.78	243.33	201.67	173.89	154.05
- Polisi Potongan Gaji:** This section lists deduction amounts. The data is as follows:

Item	Value
Potongan Gaji untuk Simpanan Tetap	RM 50.00
Minimum Potongan Gaji untuk Simpanan Tetap	RM 25.00
Potongan Gaji untuk Sumbangan Tabung Kebajikan	RM 5.00
Minimum Potongan Gaji untuk Sumbangan Tabung Kebajikan	RM 5.00
Hari Tutup (Cut-Off Day)	26

Figure 6.38 Admin Update Policies

Figure 6.38 shows the Update Member Application Policy Page. The values here will be reflected in the member application, fee and contribution section.

The screenshot displays the 'Kemaskini Polisi Asas Pemohonan Anggota' (Update Member Application Policy) page. The page header includes a logo, navigation links (Permohonan, Senarai, Transaksi, Polisi, Kemaskini Iklan, Laporan), and a 'Log Keluar' button. The main content area lists several fees and contributions with their current values:

Kategori	Nilai
Fee Masuk	RM 50 .00
Fee Masuk Anggota yang Pernah Menjadi Anggota	RM 100 .00
Modah Syer Minimum	RM 300 .00
Modal Yuran Minimum	RM 35 .00
Wang Deposit Anggota Minimum	RM 0 .00
Sumbangan Tabung Kebajikan Minimum	RM 5 .00
Simpanan Tetap Minimum	RM 5 .00
Lain-lain	RM 0 .00

At the bottom right are two buttons: 'Kembali' (Back) and 'Kemaskini' (Update).

Figure 6.38 Admin Update Member Application Policy Page

Figure 6.39 shows the Update Loan Application Policy Page. The values here will be reflected in the loan application, loan details section.

The screenshot displays the 'Kemaskini Polisi Permohonan Pembiayaan' (Update Loan Application Policy) page. At the top, there is a navigation bar with links for 'Permohonan', 'Senarai Anggota', 'Senarai Peminjam', 'Transaksi', 'Polisi', 'Kemaskini Iklan', 'Maklum Balas', and 'Laporan'. On the far right of the header is a 'Log Keluar' button. Below the header, the main title 'Kemaskini Polisi Permohonan Pembiayaan' is centered. The page contains several input fields and tables for updating loan policies.

Modal Syer Minimum Peminjam

RM	300	.00
----	-----	-----

Tempoh Ansuran Maksima

7	tahun
---	-------

Kadar Keuntungan dan Pembiayaan Maksima

Jenis Pinjaman	Pembiayaan Maksima	Kadar Keuntungan		
Al-Bai	RM 10000	.00	4.2	%
Al-Innah	RM 10000	.00	4.2	%
Baik Pulih Kenderaan	RM 4500	.00	4.2	%
Cukai Jalan dan Insurans	RM 4500	.00	4.2	%
Skim Khas	RM 10000	.00	4.2	%
Karnival Musim Istimewa	RM 10000	.00	4.2	%
Al-Qadrul Hassan	RM 10000	.00	4.2	%

Kadar Keuntungan							
Tempoh (Tahun)	1	2	3	4	5	6	7
Tempoh (Bulan)	12	24	36	48	60	72	84

Jumlah Pembiayaan							
Ansuran Bulanan							
1000.00	86.83	45.17	31.28	24.33	20.17	17.39	15.40
2000.00	173.67	90.33	62.56	48.67	40.33	34.78	30.81
3000.00	260.50	135.50	93.83	73.00	60.50	52.17	46.21
4000.00	347.33	180.67	125.11	97.33	80.67	69.56	61.62
5000.00	434.17	225.83	156.39	121.67	100.83	86.94	77.02
6000.00	521.00	271.00	187.67	146.00	121.00	104.33	92.43
7000.00	607.83	316.17	218.94	170.33	141.17	121.72	107.83
8000.00	694.67	361.33	250.22	194.67	161.33	139.11	123.24
9000.00	781.50	406.50	281.50	219.00	181.50	156.50	138.64
10000.00	868.33	451.67	312.78	243.33	201.67	173.89	154.05

[Kembali](#) [Kemaskini](#)

Figure 6.39 Admin Update Member Loan Application Policy

Figure 6.40 shows the Update Salary Deduction Policy Page. The minimum values in the form will be reflected in the update profile page, salary deduction section. The cut-off day on the other hand will be reflected in the transaction page.

Permohonan ▾ Senarai Anggota ▾ Senarai Peminjam ▾ Transaksi ▾ Polisi ▾ Kemaskini Iklan Maklum Balas Laporan

Log Keluar

Kemaskini Polisi Potongan Gaji

Simpanan Tetap RM 50	.00	Minimum Potongan Gaji Simpanan Tetap RM 25	.00
Potongan Gaji untuk anggota yang tidak membuat permintaan untuk perubahan potongan gaji.		Potongan Gaji Minimum untuk anggota yang ingin membuat perubahan untuk potongan gaji.	
Sumbangan Tabung Kebajikan RM 5	.00	Minimum Potongan Gaji Sumbangan Tabung Kebajikan RM 5	.00
Potongan Gaji untuk anggota yang tidak membuat permintaan untuk perubahan potongan gaji.		Potongan Gaji Minimum untuk anggota yang ingin membuat perubahan untuk potongan gaji.	
Hari Tutup (Cut-Off Day) 26			

Permohonan yang diluluskan sebelum hari ini akan dipotong gaji.

[Kembali](#) [Kemaskini](#)

Figure 6.40 Admin Update Salary Deduction Policy

Figure 6.41 shows the policies history page, showing the list of policies updates for audit proposes.

The screenshot displays the 'Sejarah Polisi' (Policy History) section of the application. It features three tables showing policy changes over time:

Perkara	11/05/2023	23/01/2025	04/02/2025
Fee Masuk	RM35.00	RM50.00	RM40.00
Fee Masuk Anggota yang Pernah Menjadi Anggota	RM0.00	RM100.00	RM100.00
Modah Syer Minimum	RM300.00	RM300.00	RM300.00
Modal Yuran Minimum	RM0.00	RM35.00	RM35.00
Wang Deposit Anggota Minimum	RM0.00	RM0.00	RM0.00
Sumbangan Tabung Kebajikan Minimum	RM5.00	RM5.00	RM5.00
Simpanan Tetap Minimum	RM50.00	RM0.00	RM5.00
Lain-lain	RM0.00	RM0.00	RM0.00
Admin ID	12345678	12345678	12345678

Perkara	11/05/2023	23/01/2025	04/02/2025	05/02/2025
Modal Syer Minimum Peminjam	300.00	300.00	300.00	300.00
Tempoh Ansuran Maksima	6 tahun	6 tahun	7 tahun	7 tahun
Pembayaran Maksima Al-Bai	RM0.00	RM20,000.00	RM20,000.00	RM10,000.00
Pembayaran Maksima Al-Innah	RM0.00	RM20,000.00	RM20,000.00	RM10,000.00
Pembayaran Maksima Baik Pulih Kenderaan	RM0.00	RM4,500.00	RM4,500.00	RM4,500.00
Pembayaran Maksima Cukai Jalan dan Insurans	RM0.00	RM4,500.00	RM4,500.00	RM4,500.00
Pembayaran Maksima Skim Khas	RM0.00	RM10,000.00	RM10,000.00	RM10,000.00
Pembayaran Maksima Karnival Musim Istimewa	RM0.00	RM10,000.00	RM10,000.00	RM10,000.00
Pembayaran Maksima Al-Qadrul Hassan	RM0.00	RM20,000.00	RM20,000.00	RM10,000.00
Kadar Keuntungan Al-Bai	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Al-Innah	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Baik Pulih Kenderaan	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Cukai Jalan dan Insurans	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Skim Khas	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Karnival Musim Istimewa	0.00%	4.20%	4.20%	4.20%
Kadar Keuntungan Al-Qadrul Hassan	0.00%	4.20%	4.20%	4.20%
Admin ID	12345678	12345678	12345678	12345678

Perkara	11/05/2023	04/02/2025
Potongan Gaji untuk Simpanan	RM50.00	RM50.00
Minimum Potongan Gaji untuk Simpanan	RM0.00	RM25.00
Potongan Gaji untuk Tabung Kebajikan	RM5.00	RM5.00
Minimum Potongan Gaji untuk Tabung Kebajikan	RM0.00	RM5.00
Hari Tutup (Cut-Off Day)	RM0.00	RM26.00
Admin ID	12345678	12345678

Figure 6.41 Admin View Policy History

6.5.3 Update Banner

Figure 6.42 and figure 6.43 show the pages for updating banners. All changes made here will be reflected in the member main page. In figure 6.42, the user can upload new banners to the system

The screenshot shows a web application interface for managing banners. At the top, there is a navigation bar with links: Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, and Laporan. On the far right of the header is a "Log Keluar" button. Below the header, the title "Kemaskini Iklan" is centered. Underneath it, there is a preview area for the current banner titled "Iklan Semasa". The banner image features two women in a joyful pose, with text overlay: "Perlu Pinjaman? Dapatkan Kelulusan Cepat!" on the left and "Kadar Faedah Rendah, Terma Pembayaran Fleksibel, Permohonan Cepat & Mudah" on the right. To the right of the preview is a "Kemaskini" button. Below the preview area, there is a section titled "Muat Naik Iklan Baru" with a text input field labeled "Nama Iklan Baru" and a file upload input field with the placeholder "Choose File No file chosen". A blue "Muat Naik" button is located at the bottom of this section.

Figure 6.42 Admin Upload Banner Page

In figure 6.43, the user can choose to activate, deactivate or delete the banner saved.

Log Keluar

Permohonan ▾ Senarai ▾ Transaksi ▾ Polisi ▾ Kemaskini Iklan Laporan

Kemaskini Iklan

Nama	Iklan	Status	Tindakan
Default Advertisement		Aktif ▾	Padam
Boat		Aktif ▾	Padam
Carta Organisasi KADA		Aktif ▾	Padam

1

Kembali

Figure 6.43 Admin Update Banner Page

6.6 Package 6 Reporting

Figure 6.44 shows Admin Generate Report Page, allowing admin to view reports by filtering with month or year or both.

The screenshot displays the Admin Generate Report Page with the following interface elements:

- Header:** Includes the logo, navigation menu (Permohonan, Senarai Anggota, Senarai Peminjam, Transaksi, Polisi, Kemaskini Iklan, Maklum Balas, Laporan), and a Log Keluar button.
- Filtering:** Bulan (Month) dropdown set to Januari, Tahun (Year) dropdown set to 2025, and a Tapis (Filter) button.
- Title:** Laporan Kewangan Januari 2025 (Financial Report for January 2025).
- Buttons:** Simpan Log (Save Log) and Lihat dalam PDF (View in PDF).
- Section 1: Ringkasan Eksekutif**

Laporan ini memberikan analisis terperinci mengenai prestasi kewangan syarikat untuk tempoh Januari 2025, termasuk metrik utama seperti permohonan ahli, permohonan pinjaman, rekod transaksi dan kesihatan kewangan keseluruhan.
- Section 2: Gambaran Keseluruhan Permohonan Ahli**

Jumlah Permohonan Ahli Baru: 2

Status	Bilangan
Diluluskan	1
Sedang Diproses	1
Ditolak	0
- Section 3: Gambaran Keseluruhan Status Ahli**

Jumlah Status Ahli: 1

Status	Bilangan
Aktif	1
Berhenti	0
Pencen	0
- Section 4: Gambaran Keseluruhan Permohonan Pinjaman**

Jumlah Permohonan Pinjaman Baru: 1

Permohonan Mengikut Status:

Status	Bilangan
Diluluskan	0
Sedang Diproses	1
Ditolak	0
Dijelaskan	0

Permohonan Pinjaman Mengikut Jenis:

Status	Bilangan
Al-Bai	0
Al-Innah	0
Baik Pulih Kenderaan	0
Road Tax dan Insurans	1
Khas	0
Karnival Musim Istimewa	0
Al-Qadru Hassan	0

5. Prestasi Transaksi

Jumlah Transaksi	30
Jumlah Amaun Transaksi	RM 1,432.95

6. Maklumat Polisi

Polisi Asas Permohonan Anggota

Fee Masuk	RM50.00
Fee Masuk Anggota yang Pernah Menjadi Anggota	RM100.00
Modah Syer Minimum	RM300.00
Modal Yuran Minimum	RM35.00
Wang Deposit Anggota Minimum	RM0.00
Sumbangan Tabung Kebajikan Minimum	RM5.00
Simpanan Tetap Minimum	RM0.00
Lain-lain	RM0.00

Polisi Permohonan Pembiayaan

Modal Syer Minimum Peminjam	RM 300.00
Tempoh Ansuran Maksima	6 tahun

Jenis Pembiayaan	Kadar Keuntungan	Pembiayaan Maksima
Al-Bai	4.20%	RM 20,000.00
Al-Innah	4.20%	RM 20,000.00
Baik Pulih Kenderaan	4.20%	RM 4,500.00
Cukai Jalan dan Insurans	4.20%	RM 4,500.00
Skim Khas	4.20%	RM 10,000.00
Karnival Musim Istimewa	4.20%	RM 10,000.00
Al-Qadru Hassan	4.20%	RM 20,000.00

Figure 6.44 Admin Generate Report Page

Figure 6.45 shows Admin View Report in PDF, allowing admin to export report in pdf format.

All tools Edit Convert E-Sign
kkksystem.xyz / Laporan...Kewan...
Share
AI Assistant
Sign in

LAPORAN KEWANGAN



Tempoh: Januari 2025

1. Ringkasan Eksekutif

Laporan ini memberikan analisis terperinci mengenai prestasi kewangan syarikat untuk tempoh Januari 2025, termasuk metrik utama seperti permohonan ahli, permohonan pinjaman, rekod transaksi dan kesihatan kewangan keseluruhan.

2. Gambaran Keseluruhan Permohonan Ahli

Status	Jumlah
Diluluskan	1
Sedang Diproses	1
Ditolak	0
JUMLAH PERMOHONAN	2

3. Gambaran Keseluruhan Status Ahli

Status	Jumlah
Aktif	1
Berhenti	0

3. Gambaran Keseluruhan Status Ahli

Status	Jumlah
Aktif	1
Berhenti	0
Pencen	0
JUMLAH STATUS	1

4. Gambaran Keseluruhan Permohonan Pinjaman

Status	Jumlah
Diluluskan	0
Sedang Diproses	1
Ditolak	0
Dijelaskan	0
JUMLAH PERMOHONAN	1

Jenis Pinjaman	Jumlah
Al-Bai	0
Al-Innah	0
Baik-Pulih Kenderaan	0
Road Tax dan Insurans	1

Muka 1/3

All tools Edit Convert E-Sign
kkksystem.xyz / Laporan...Kewan...
Share
AI Assistant
Sign in

LAPORAN KEWANGAN



Khas	0
Karnival Musim Istimewa	0
Al-Qadrul Hassan	0
JUMLAH	1

Jumlah Amaun Pinjaman: RM 5,000.00

5. Prestasi Transaksi

Perkara	Jumlah
Bilangan Transaksi	30
JUMLAH AMAUN	RM 1,432.95

6. Maklumat Polisi

Perkara	Nilai
Yuran Pendaftaran Anggota	RM 50.00
Modal Syer Minimum	RM 300.00
Yuran Modal Minimum	RM 35.00
Yuran Tetap Minimum	RM 0.00
Simpanan Tetap Minimum	RM 5.00
Tabung Kebajikan Minimum	RM 0.00

Jumlah Pembayaan Maksimum Bagi Al-Bai
Kadar Keuntungan Bagi Al-Bai

Jumlah Pembayaan Maksimum Bagi Al-Innah	RM 20,000.00
Kadar Keuntungan Bagi Al-Innah	4.2%
Jumlah Pembayaan Maksimum Bagi Baik Pulih Kenderaan	RM 4,500.00
Kadar Keuntungan Bagi Baik Pulih Kenderaan	4.2%
Jumlah Pembayaan Maksimum Bagi Road Tax dan Insurans	RM 4,500.00
Kadar Keuntungan Bagi Road Tax dan Insurans	4.2%
Jumlah Pembayaan Maksimum Bagi Khas	RM 10,000.00
Kadar Keuntungan Bagi Khas	4.2%
Jumlah Pembayaan Maksimum Bagi Karnival Muslim Istimewa	RM 10,000.00
Kadar Keuntungan Bagi Karnival Muslim Istimewa	4.2%
Jumlah Pembayaan Maksimum Bagi Al-Qadrul Hassan	RM 20,000.00
Kadar Keuntungan Bagi Al-Qadrul Hassan	4.2%

7. Kesimpulan

Muka 2/3

LAPORAN KEWANGAN

Berdasarkan analisis untuk tempoh Januari 2025, laporan ini merumuskan bahawa:

1. Permohonan Kehilangan:
 - Kadar kelulusan keahlian adalah 0.0%
 - Jumlah 2 permohonan baharu telah diterima

2. Permohonan Pinjaman:
 - Kadar kelulusan pinjaman adalah 0.0%
 - Jumlah nilai pinjaman yang diluluskan: RM 5,000.00

3. Cadangan:
 - Meningkatkan proses kelulusan keahlian
 - Mengkaji semula kriteria kelayakan pinjaman
 - Mengkaji semula strategi pengurusan kewangan
 - Memantau prestasi kewangan secara berterusan
 - Mengelakkan polisi yang sedia ada untuk kestabilan operasi

Figure 6.45 Admin View Report in PDF

7. Traceability

Traceability includes user module, member module, admin approve module and admin module shown in Table 7.1. It provides cross-reference that link the user story to the package and sprints.

Table 7.1 Traceability for this system

Sprint No	Package Item	User Story
Sprint 1 User Module	Package 1 User Management	US01
		US06
	Package 2 Member Management	US02
Sprint 2 Member Module	Package 2 Member Management	US03
		US07
	Package 3 Loan Management	US04
		US05
Sprint 3 Admin Approve Module	Package 4 Approval Management	US08

		US09
		US12
Sprint 4 Admin Module	Package 6 Reporting	US10
	Package 5 Admin Updating	US11

8. Test Cases

Here are the test cases for this system.

8.1 TC01: Test Package 1 User Management System

User Story: Member Update User Profile (US02)

This test contains the following test cases:

- TC01_01: Test Scenario of Sequence diagram for Update User Profile (Member Details) (SD003)
- TC01_02: Test Scenario of Sequence diagram for Update User Profile (Heir Information) (SD003)
- TC01_03: Test Scenario of Sequence diagram for Update User Profile (Salary Deduction Information) (SD003)
- TC01_04: Test Scenario of Sequence diagram for Apply Membership (SD001)
- TC01_05: Test Scenario of Sequence diagram for Log in (SD002)

8.1.1 TC01_01 Test Scenario of Sequence diagram Update User Profile (Member Details) (SD003)

This test case contains the following scenario:

- TC01_01_01: Test Update User Profile (Member Details) shown in Table 8.1.1.1

Table 8.1.1.1 Test case for update user profile (member details)

TC 01_01_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Profile”		The page “Profile” should be open.	As expected	PASS	Lam Yoke Yu	No problem
2	Click “Kemaskini” on the “Butir-butir Peribadi Pemohon” part		The page “Butir-butir Peribadi Pemohon” should be open.	As expected	PASS	Lam Yoke Yu	OK

3	Modify the details	<p>Nama: Ali bin Abu E-mel: alibinabu@gmail.com.my Agama: Islam Bangsa: Melayu Taraf Perkahwinan: Kahwin Alamat Rumah: 12, Jalan UTM, Lingkaran Ilmu Bandar: Skudai Negeri: Johor Poskod: 12345 Jawatan: Pengurus Gred Jawatan: 123 Alamat Pejabat: 27, Jalan KADA Kelantan, KADA Kelantan Bandar: Kota Bharu Negeri: Kelantan Poskod: 12345 No. Telefon Bimbit: 0123456789 No. Telefon Rumah: 08123456 Gaji Sebulan: 1234</p>			PASS	Lam Yoke Yu	No problem
4	Click “Simpan”		The page should pop up “Adakah Anda Pasti? Butir-butir anda akan	As expected	PASS	Lam Yoke Yu	No problem

			dikemaskini!” with a question icon.				
5	Click “Ya, hantar”		The page should pop up “Butir-butir anda telah berjaya dikemaskini!” with a success icon.	As expected	PASS	Lam Yoke Yu	OK
6	Click “OK”		The pop up window should close and redirect to “Profile”	As expected	PASS	Lam Yoke Yu	No problem

8.1.2 TC01_02 Test Scenario of Sequence diagram Update User Profile (Heir Information) (SD003)

This test case contains the following scenario:

- TC01_02_01: Test Update User Profile (Heir Information) shown in Table 8.1.2.1

Table 8.1.2.1 Test case for update user profile (heir information)

TC 01_02_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Profile”		The page “Profile” should be open.	As expected	PASS	Goe Jie Ying	No problem
2	Click “Kemaskini” on the “Maklumat Keluarga dan Pewaris” part		The page “Maklumat Keluarga dan Pewaris” should be open.	As expected	PASS	Goe Jie Ying	No problem
3	Enter the details	Pewaris 1 Nama: Abu bin Ali Nombor KP:			PASS	Goe Jie Ying	No problem

		031212-07-002 3 Hubungan: Anak Pewaris 2 Nama: Ama bin Ali Nombor KP: 030224-07-002 3 Hubungan: Anak Pewaris 3 Nama: Syamimi Bello Nombor KP: 880122-07-002 3 Hubungan: Suami Isteri					
4	Click “Tambah Pewaris” and fill in the details.	Maklumat Pewaris Baru Nama: Amat Bello Nombor KP: 990122-07-002 3 Hubungan: Lain-lain	The system pops up another field for a new heir.		PASS	Goe Jie Ying	No problem
5	Click “Padam”		The heir should be deleted.	As expected	PASS	Goe Jie Ying	OK
6	Click “Simpan”		The page should pop up “Adakah Anda Pasti? Maklumat pewaris dan keluarga akan dikemaskini!” with a question icon.	As expected	PASS	Goe Jie Ying	No problem
7	Click “Ya,		The page	As	PASS	Goe Jie	OK

	“hantar”		should pop up “Maklumat pewaris dan keluarga telah berjaya dikemaskini!” with a success icon.	expected		Ying	
8	Click “OK”		The pop up window should close and redirect to “Profile”	As expected	PASS	Goe Jie Ying	OK

8.1.3 TC01_03 Test Scenario of Sequence diagram Update User Profile (Salary Deduction Information) (SD003)

This test case contains the following scenario:

- TC01_03_01: Test Update User Profile (Salary Deduction Information) shown in Table 8.1.3.1

Table 8.1.3.1 Test case for update user profile (salary deduction information)

TC 01_03_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Profile”		The page “Profile” should be open.	As expected	PASS	Teh Ru Qian	OK
2	Click “Kemaskini” on the “Butir-butir Potongan Gaji” part		The page “Potongan Gaji” should be open.	As expected	PASS	Teh Ru Qian	No problem
3	Enter the details	Potongan Gaji untuk Simpanan Tetap: 50 Potongan Gaji untuk Tabung Anggota: 50			PASS	Teh Ru Qian	No problem
4	Click		The page	As	PASS	Teh Ru	No

	“Simpan”	should pop up “Adakah Anda Pasti? Potongan gaji anda akan dikemaskini!” with a question icon.	expected		Qian	problem
5	Click “Ya, hantar”	The page should pop up “Potongan Gaji Telah Dikemaskini! Kemaskini potongan gaji berjaya!” with a success icon.	As expected	PASS	Teh Ru Qian	OK
6	Click “OK”	The pop up window should close and redirect to “Profile”	As expected	PASS	Teh Ru Qian	No problem

8.1.4 TC01_04 Test Scenario of Sequence diagram for Apply Membership (SD001)

This test case contains the following scenario:

- TC01_04_01 Test Member Application with Normal Flow shown in Table 8.1.4.1
- TC01_04_02 Test Member Application with Invalid Flow shown in Table 8.1.4.2
- TC01_04_03 Test Member Application as returning member shown in Table 8.1.4.3

Table 8.1.4.1 Test case for Membership Application with normal flow

TC 01_04_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Navigate to the login page	kkksystem.xyz	The login page “Log Masuk” should be open	As expected	PASS	Chua Jia Lin	OK
2	Click “Pemohonan Menjadi Anggota”		The registration page shows pop up “Adakah anda pernah menjadi anggota?”	As expected	PASS	Chua Jia Lin	OK

3	Click “Tidak”		The registration page should opens.	As expected		Chua Jia Lin	OK
4	Enter the details	<p>Nama: Ali bin Abu No. KP: 742345-01-8901 E-mel: alibinabu@gmail.com.my Jantina: Lelaki Agama: Islam Bangsa: Melayu Taraf Perkahwinan: Bujang Alamat Rumah: 12, Jalan UTM, Lingkaran Ilmu Bandar: Skudai Negeri: Johor Poskod: 12345 Jawatan: Pengurus Gred Jawatan: 123 PF No.: 32 Alamat Pejabat: 27, Jalan KADA Kelantan, KADA Kelantan Bandar: Kota Bharu Negeri: Kelantan Poskod: 12345 No. Telefon: 0123456789 No. Telefon Rumah: 08123456 Gaji Sebulan: 1234</p>	As expected	PASS	Chua Jia Lin	OK	
5	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK

6	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
7	Click “Seterusnya”		The page should navigate to “Maklumat Pewaris Section”.	As expected	PASS	Chua Jia Lin	OK
8	Enter the details	Pewaris 1 Nama: Abu bin Ali Nombor KP: 031212-07-0023 Hubungan: Anak Pewaris 2 Nama: Ama bin Ali Nombor KP: 030224-07-0023 Hubungan: Anak Pewaris 3 Nama: Syamimi Bello Nombor KP: 880122-07-0023 Hubungan: Suami Isteri		As expected	PASS	Chua Jia Lin	OK
9	Click “Tambah Pewaris” and fill in the details.	Pewaris 4 Nama: Amat Bello Nombor KP: 990122-07-0023 Hubungan: Lain-lain	The system pops up another field for pewaris 4.	As expected	PASS	Chua Jia Lin	OK
10	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
11	Click “OK”		The pop up window should close. The	As expected	PASS	Chua Jia Lin	OK

			details are available for checking.				
12	Click “Seterusnya”		The page should navigate to “Yuran dan Sumbangan” section.	As expected	PASS	Chua Jia Lin	OK
13	Enter the details	Fee Masuk RM 35 Modal Yuran RM 50 Wang Deposit Anggota RM 50 Sumbangan Tabung Kebajikan (Al-Abrar) RM 50 Simpanan Tetap RM 50 Lain-lain RM 50		As expected	PASS	Chua Jia Lin	OK
14	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
15	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
16	Click “Seterusnya”		The page should navigate to “Akuan Kebenaran” section.	As expected	PASS	Chua Jia Lin	OK
17	Click “Setuju”		The page should pop up “Pengesahan Adakah anda pasti untuk menghantar maklumat ini?	As expected	PASS	Chua Jia Lin	OK

			” with a ? icon.				
18	Click “Ya, hantar”		The page should pop up “Data telah disimpan” with a success icon, and navigate to show details page.	As expected	PASS	Chua Jia Lin	OK

Table 8.1.4.2 Test case for Membership Application with invalid flow

TC 01_04_02	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Navigate to the login page	kkksystem.xyz	The login page “Log Masuk” should be open	As expected	PASS	Chua Jia Lin	OK
2	Click “Pemohonan Menjadi Anggota”			As expected	PASS	Chua Jia Lin	OK
3	Click “Tidak”		The registration page “Maklumat Pemohon” should be open.				
4	Enter the details	Nama: Abu bin Ali No. KP: 031212-07-0023 E-mel: alibinabu@gmail.com.my Jantina: Lelaki Agama: Islam Bangsa: Melayu Taraf Perkahwinan: Bujang Alamat Rumah: 12, Jalan UTM, Lingkaran Ilmu Bandar: Skudai Negeri: Johor Poskod: 12345 Jawatan:		As expected		Chua Jia Lin	OK

		<p>Pengurus Gred Jawatan: 123 PF No.: 32 Alamat Pejabat: 27, Jalan KADA Kelantan, KADA Kelantan Bandar: Kota Bharu Negeri: Kelantan Poskod: 12345</p>					
5	Click “Simpan”		The page should pop up “Sila lengkapkan semua medan yang diperlukan” with an error icon. The input that are left blank is highlighted red with an error icon.	As expected	PASS	Chua Jia Lin	OK
6	Enter the required details	No. Telefon: 0123456789 No. Telefon Rumah: 08123456 Gaji Sebulan: 1234		As expected	PASS	Chua Jia Lin	OK
7	Click “Simpan”		The page should pop up “E-mel ini telah didaftar.” with an error icon.	As expected	PASS	Chua Jia Lin	OK
8	Correct the required details	E-mel: <u>abubinali@gmail.com.my</u>		As expected	PASS	Chua Jia Lin	OK
9	Click “Seterusnya”		The page should display alert “ Perhatian Sila simpan maklumat	As expected	PASS	Chua Jia Lin	OK

			sebelum meneruskan! ”.				
10	Click “Maklumat Pewaris” at the side tab		The page should display “Perhatian Lengkapkan dan simpan maklumat sebelum meneruskan! ”	As expected	PASS	Chua Jia Lin	OK
11	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
12	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
13	Click “Seterusnya”		The page should navigate to “Maklumat Pewaris Section”.	As expected	PASS	Chua Jia Lin	OK
14	Enter the details	Pewaris 1 Nama: Ali bin Abu Nombor KP: 742345-01-8901 Hubungan: Orang Tua Pewaris 2 Nama: Ama bin Ali Nombor KP: 030224-07-0023 Hubungan: Saudara Kandung Pewaris 3 Nama: Syamimi Bello Nombor KP:		As expected	PASS	Chua Jia Lin	OK

		880122-07-0023 Hubungan: Orang Tua					
15	Click “Tambah Pewaris” and fill in the details.	Pewaris 4 Nama: Amat Bello Nombor KP: 990122-07-0023 Hubungan: Lain-lain	The system pops up another field for pewaris 4.	As expected	PASS	Chua Jia Lin	OK
16	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
17	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
18	Click “Seterusnya”		The page should navigate to “Yuran dan Sumbangan” section.	As expected	PASS	Chua Jia Lin	OK
19	Enter the details	Fee Masuk RM 30 Modal Yuran RM 50 Wang Deposit Anggota RM 50 Sumbangan Tabung Kebajikan (Al-Abrar) RM 50 Simpanan Tetap RM 50 Lain-lain RM 50		As expected	PASS	Chua Jia Lin	OK
20	Click “Simpan”		The field “Fee Masuk” should display error “Fee Masuk mesti >= 35”	As expected	PASS	Chua Jia Lin	OK

21	Correct the information	Fee Masuk: 50		As expected	PASS	Chua Jia Lin	OK
22	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
23	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
24	Click “Seterusnya”		The page should navigate to “Akuan Kebenaran” section.	As expected	PASS	Chua Jia Lin	OK
25	Click “Simpan”		The page should display error “ Perhatian Sila bersetuju dengan terma dan syarat sebelum meneruskan.”	As expected	PASS	Chua Jia Lin	OK
26	Click “Setuju”			As expected	PASS	Chua Jia Lin	OK
27	Click “Simpan”		The page should pop up “ Pengesahan Adakah anda pasti untuk menghantar maklumat ini?” with a ? icon.	As expected	PASS	Chua Jia Lin	OK
29	Click “Batal”		The page should display error “ Dibatalkan Maklumat anda tidak dihantar.”	As expected	PASS	Chua Jia Lin	OK
30	Click “Simpan”		The page should pop up “ Pengesahan	As expected	PASS	Chua Jia Lin	OK

			Adakah anda pasti untuk menghantar maklumat ini? " with a ? icon.				
31	Click “Ya, hantar”		The page should pop up “Data telah disimpan” with a success icon, and navigate to show details page.	As expected	PASS	Chua Jia Lin	OK

Table 8.1.4.3 Test case for Membership Application as returning member

TC 01_04_03	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Navigate to the login page	kkksystem.xyz	The login page “Log Masuk” should be open	As expected	PASS	Chua Jia Lin	OK
2	Click “Pemohonan Menjadi Anggota”		The registration page shows pop up “Adakah anda pernah menjadi anggota?”	As expected	PASS	Chua Jia Lin	OK
3	Click “Ya”		The registration page should opens with existing data to be update.	As expected		Chua Jia Lin	OK
4	Check and update the details	Nama: Ali bin Abu No. KP: 742345-01-8901 E-mel: alibinabu@gmail.com.my Jantina: Lelaki Agama: Islam Bangsa: Melayu Tarafl Perkahwinan: Bujang Alamat Rumah: 12, Jalan UTM, Lingkaran Ilmu		As expected	PASS	Chua Jia Lin	OK

		<p>Bandar: Skudai Negeri: Johor Poskod: 12345 Jawatan: Pengurus Gred Jawatan: 123 PF No.: 32 Alamat Pejabat: 27, Jalan KADA Kelantan, KADA Kelantan Bandar: Kota Bharu Negeri: Kelantan Poskod: 12345 No. Telefon: 0123456789 No. Telefon Rumah: 08123456 Gaji Sebulan: 1234</p>					
5	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
6	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
7	Click “Seterusnya”		The page should navigate to “Maklumat Pewaris Section”.	As expected	PASS	Chua Jia Lin	OK
8	Check and update the details	<p>Pewaris 1 Nama: Abu bin Ali Nombor KP: 031212-07-0023 Hubungan: Anak</p>		As expected	PASS	Chua Jia Lin	OK

		Pewaris 2 Nama: Ama bin Ali Nombor KP: 030224-07-0023 Hubungan: Anak Pewaris 3 Nama: Syamimi Bello Nombor KP: 880122-07-0023 Hubungan: Suami Isteri					
9	Click “Tambah Pewaris”.		The system pops up another field for pewaris 4.	As expected	PASS	Chua Jia Lin	OK
10	Fills in the detail	Pewaris 4 Nama: Amat Bello Nombor KP: 990122-07-0023 Hubungan: Lain-lain		As expected	PASS	Chua Jia Lin	OK
11	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
12	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
13	Click “Seterusnya”		The page should navigate to “Yuran dan Sumbangan” section.	As expected	PASS	Chua Jia Lin	OK
14	Enter the details	Fee Masuk RM 100 Modal Yuran RM 50 Wang Deposit Anggota		As expected	PASS	Chua Jia Lin	OK

		RM 50 Sumbangan Tabung Kebajikan (Al-Abrar) RM 50 Simpanan Tetap RM 50 Lain-lain RM 50					
15	Click “Simpan”		The page should pop up “Data telah disimpan” with a success icon.	As expected	PASS	Chua Jia Lin	OK
16	Click “OK”		The pop up window should close. The details are available for checking.	As expected	PASS	Chua Jia Lin	OK
17	Click “Seterusnya”		The page should navigate to “Akuan Kebenaran” section.	As expected	PASS	Chua Jia Lin	OK
18	Click “Setuju”		The page should pop up “Pengesahan Adakah anda pasti untuk menghantar maklumat ini? ” with a ? icon.	As expected	PASS	Chua Jia Lin	OK
19	Click “Ya, hantar”		The page should pop up “Data telah disimpan” with a success icon, and navigate to show details page.	As expected	PASS	Chua Jia Lin	OK

8.1.5 TC01_05 Test Scenario of Sequence diagram for Log In (SD002)

This test case contains the following scenario:

- TC01_04_01 Test Member Login with correct login credentials.
- TC01_04_02 Test Member Login with wrong password (forgot and reset password)

Table 8.1.5.1 Test case for Member Login with correct login credentials.

TC 01_05_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Navigate to the login page	kkksystem.xyz	The login page “Log Masuk” should be open	As expected	PASS	Chua Jia Lin	OK
2	Enter member ID and password	Pengguna ID: 1035 Kata Laluan: 123456	Member main page should be displayed.	As expected	PASS	Chua Jia Lin	OK

Table 8.1.5.1 Test case for Member Login with wrong login credentials (forgot and reset password)

TC 01_05_02	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Navigate to the login page	kkksystem.xyz	The login page “Log Masuk” should be open	As expected	PASS	Chua Jia Lin	OK
2	Enter member ID and password	Pengguna ID: 1035 Kata Laluan: 111111111111	Pop up “Log Masuk Gagal. Pengguna ID atau kata laluan salah”.	As expected	PASS	Chua Jia Lin	OK
3	Click “Lupa Kata Laluan”		Navigates to change password page.	As expected		Chua Jia Lin	OK
4	Enter correct and matching member ID and email.	Pengguna ID: 1035 emel: jygoe63@gmail.com	Pops up “OTP telah dihantar ke emel anda.” Redirects to OTP verification page after 3 seconds.	As expected	PASS	Chua Jia Lin	OK
5	Enter OTP as sent in the email.	OTP: 10283 (example)	Pops up success confirmation message and navigates to change password page.	As expected	PASS	Chua Jia Lin	OK

6	Enter matching new password and confirmation of new password	Kata Laluan Baharu: 123123 Sahkan kata laluan: 123123	Pops up successful confirmation message and navigates back to login page	As expected	PASS	Chua Jia Lin	OK
7	Enter member ID and password	Pengguna ID: 1035 Kata Laluan: 123123	Member main page should be displayed.	As expected	PASS	Chua Jia Lin	OK

8.2 TC02: Test Package 2 Member Management Subsystem

User Story: Member Update User Profile (US02)

This test contains the following test cases:

- TC02_01: Test Scenario of Sequence diagram for View Financial Status (Member Share) (SD004)
- TC02_02: Test Scenario of Sequence diagram for View Financial Status (Member Loan) (SD004)
- TC02_03: Test Scenario of Sequence diagram for Submit Feedback (SD)
- TC02_04: Test Scenario of Sequence diagram for Make Member Termination Application (SD007)

8.2.1 TC02_01 Test Scenario of Sequence diagram View Financial Status (Member Share) (SD004)

This test case contains the following scenario:

- TC02_01_01: Test View Financial Status (Member Share) shown in Table 8.2.1.1

Table 8.2.1.1 Test case for view financial status (member share)

TC 02_ 01_ 01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comm ents
1	Click “Laman Utama”		The page “Laman Utama” should be open.	As expected	PASS	Goe Jie Ying	No problem
2	Click “Rekod Transaksi” on the “Maklumat Saham”		The page “Rekod Transaksi” should be open.	As expected	PASS	Goe Jie Ying	OK

	Ahli” part						
3	Filter the records	Pilih Bulan: Disember Pilih Tahun: 2024			PASS	Goe Jie Ying	No problem
4	Click “Tapis”		The records should be filtered.	As expected	PASS	Goe Jie Ying	No problem

8.2.2 TC02_02 Test Scenario of Sequence diagram View Financial Status (Member Loan) (SD004)

This test case contains the following scenario:

- TC02_02_01: Test View Financial Status (Member Loan) shown in Table 8.2.2.1

Table 8.2.2.1 Test case for view financial status (member loan)

TC 02_02_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Laman Utama”		The page “Laman Utama” should be open.	As expected	PASS	Lam Yoke Yu	No problem
2	Click “Rekod Transaksi” on the “Maklumat Pinjaman Ahli” part		The page “Rekod Bayaran Balik” should be open.	As expected	PASS	Lam Yoke Yu	No problem
3	Filter the records	Pilih Bulan: Disember Pilih Tahun: 2024			PASS	Lam Yoke Yu	No problem
4	Click “Tapis”		The records should be filtered.	As expected	PASS	Lam Yoke Yu	No problem

8.2.3 TC02_03 Test Scenario of Sequence diagram Submit Feedback (SD)

This test case contains the following scenario:

- TC02_03_01: Test Submit Feedback shown in Table 8.2.3.1

Table 8.2.3.1 Test case for submit feedback

TC 02_03_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Maklum Balas”		The page “Status Maklum Balas” should be open.	As expected	PASS	Tan Yi Ya	OK
2	Click “Membuat Maklum Balas”		The page “Hantar Maklum Balas” should be open.	As expected	PASS	Tan Yi Ya	OK
3	Enter the details	Jenis Maklum Balas: Cadangan Maklumat Maklum Balas: Iklan tidak cantik			PASS	Tan Yi Ya	No problem
4	Click “Hantar”		The page should pop up “Adakah Anda Pasti? Maklum balas akan dihantar!” with a question icon.	As expected	PASS	Tan Yi Ya	No problem
5	Click “Ya, hantar”		The page should pop up “Maklum Balas telah berjaya dihantar!” with a success icon.	As expected	PASS	Tan Yi Ya	OK
6	Click “OK”		The pop up window should close and redirect to “Status Maklum Balas”	As expected	PASS	Tan Yi Ya	No problem

8.2.4 TC02_04 Test Scenario of Sequence diagram Make Member Termination Application

(SD007)

This test case contains the following scenario:

- TC02_04_01: Test Make Member Termination Application shown in Table 8.2.4.1

Table 8.2.7.1 Test case for make member termination application

TC 02_04_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Berhenti Menjadi Anggota”		The dropdown menu should be shown.	As expected	PASS	Teh Ru Qian	OK
2	Click “Borang Berhenti Menjadi Anggota”		The page “Permohonan Berhenti Menjadi Anggota” should be open.	As expected	PASS	Teh Ru Qian	OK
3	Enter the details	Sebab Berhenti Menjadi Anggota: Tidak bekerja di KADA lagi			PASS	Teh Ru Qian	No problem
4	Click “Hantar”		The page should pop up “Adakah Anda Pasti? Permohonan Berhenti Menjadi Anggota anda akan dihantar!” with a question icon.	As expected	PASS	Teh Ru Qian	No problem
5	Click “Ya, hantar”		The page should pop up “Permohonan Berjaya! Permohonan Berhenti Menjadi Anggota anda	As expected	PASS	Teh Ru Qian	OK

			telah diantar.” with a success icon.				
6	Click “OK”		The pop up window should close and redirect to “Status Permohonan Berhenti Menjadi Anggota”	As expected	PASS	Teh Ru Qian	No problem

8.3 TC03: Test Package 3 Loan Management Subsystem

User Story: Member Apply for a Loan (US04) and Member View Loan Application Status (US05)

This test contains the following test cases:

- TC03_01: Test Scenario of Sequence diagram for Apply Loan (SD05)
- TC03_02: Test Scenario of Sequence diagram for View Loan Application Status (SD06)

8.3.1 TC03_01 Test Scenario of Sequence diagram Apply Loan (SD05)

This test case contains the following scenario:

- TC03_01_01: Test Apply Loan shown in Table 8.3.1.1

Table 8.3.1.1 Test case for apply loan

TC 03_01_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Pinjaman”		The loan dashboard page “Papan Pemuka Pinjaman” should be open.	As expected	PASS	Tan Yi Ya	Ok
2	Click “Mohon Pinjaman”		The “Butir-Butir Pembiayaan” should be open.	As expected	PASS	Tan Yi Ya	Nice
3	Enter the details	Jenis Pembiayaan: Al-Bai Amaun		As expected	PASS	Tan Yi Ya	Ok

		Dipohn: 2000.00 Tempoh Pembayaran: 5 Nama Bank/Cawangan: Maybank Bank Account: 8123456789 Gaji Kasar Bulanan: 3500.00 Gaji Bersih Bulanan: 3500.00 Tandatangan: gambar_pemohon_6.jpg					
4	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Nice
5	Click “OK”		The pop up window should close and redirect to “Butir-Butir Peribadi Pemohon”	As expected	PASS	Tan Yi Ya	Nice
6	Check and update details	Gaji Bulanan: 3500.00		As expected	PASS	Tan Yi Ya	Ok
7	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Ok
8	Click “OK”		The pop up window should close and redirect to	As expected	PASS	Tan Yi Ya	Ok

			“Pengakuan Pemohon”				
9	Click “Setuju”			As expected	PASS	Tan Yi Ya	Ok
10	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Ok
11	Click “OK”		The pop up window should close and redirect to “Butir-Butir Penjamin”	As expected	PASS	Tan Yi Ya	Ok
12	Enter the details	Penjamin 1: No. Anggota: 1006 Tandatangan: gambar_penja min1_15.png Penjamin 2: No. Anggota: 1008 Tandatangan: gambar_penja min2_15.jpg		As expected	PASS	Tan Yi Ya	Nice
13	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Nice
14	Click “OK”		The pop up window should close and redirect to “Pengesahan Majikan”	As expected	PASS	Tan Yi Ya	Nice
15	Upload Employee Verificatio	Pengesahan Majikan: pengesahan_m		As expected	PASS	Tan Yi Ya	Nice

	n	ajikan_15_173 8600966.pdf					
16	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Nice
17	Click “OK”		The pop up window should close and redirect to “Akuan Kebenaran”	As expected	PASS	Tan Yi Ya	Nice
9	Click “Setuju”			As expected	PASS	Tan Yi Ya	Nice
10	Click “Simpan”		The page should pop up “Maklumat anda telah disimpan” with a success icon.	As expected	PASS	Tan Yi Ya	Ok
11	Click “OK”		The pop up window should close and redirect to “Semakan Butiran”	As expected	PASS	Tan Yi Ya	Ok
12	Click “Simpan”		The page should pop up “Adakah anda ingin meneruskan tindakan HANTAR?”	As expected	PASS	Tan Yi Ya	Ok
13	Click “Ya, Hantar”		The page should pop up “Maklumat anda telah disimpan” with a success icon	As expected	PASS	Tan Yi Ya	Nice
14	Click		The pop up	As	PASS	Tan Yi	Nice

	“OK”		window should close and redirect to “Papan Pemuka Pinjaman”	expected		Ya	
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8.3.2 TC03_02 Test Scenario of Sequence diagram View Loan Application Status (SD06)

This test case contains the following scenario:

- TC03_02_01: Test View Loan Application Status shown in Table 8.3.2.1

Table 8.3.2.1 Test Case for View Loan Application Status

TC 03_02_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Pinjaman”		The “Papan Pemuka Pinjaman” should display	As expected	PASS	Goe Jie Ying	OK

8.4 TC04: Test Package 4 Approval Management Subsystem

User Story: Admin Approve New Member Application (US08), Admin Approve Loan Application (US09), Admin Approve Membership Termination (US12)

This test contains the following test cases:

- TC04_01: Test Scenario of Sequence diagram Approve Membership (SD08)
- TC04_02: Test Scenario of Sequence diagram Approve Loan Application (SD09)
- TC04_03: Test Scenario of Sequence diagram Approve Membership Termination Application (SD12)

8.4.1 TC04_01 Test Scenario of Sequence diagram Approve Membership (SD08)

This test case contains the following scenario:

- TC04_01_01 Test Approve Membership

Table 8.5.1 Test Case for Approve Membership

TC 04_01_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Permohonan”	-	Dropdown of the applications should be displayed.	As expected	PASS	Teh Ru Qian	OK

2	Click “Permohonan Anggota”	-	The “Permohonan Anggota” page should display the list of all active membership applications.	As expected	PASS	Teh Ru Qian	OK
3	Select the members to approve or reject	Pilih Anggota	Membership applications can be selected.	As expected	PASS	Teh Ru Qian	No problem
4	Click “Tolak”	-	The selected member will be rejected as a member.	As expected	PASS	Teh Ru Qian	No problem
5	Click “...”	-	The application details will be displayed.	As expected	PASS	Teh Ru Qian	OK
6	Select the status	Select Approve	The pop up window to key in the member no should be displayed.	As expected	PASS	Teh Ru Qian	Nice
7	Insert the member No	No. Anggota: 1003	The suggested member No will be displayed.	As expected	PASS	Teh Ru Qian	OK
8	Click “Hantar”	-	The confirmation message will be displayed.				
9	Choose “Yes”	-	The membership application is being approved and the email has been sent to the member respectively.	As expected	PASS	Teh Ru Qian	OK

8.4.2 TC04_02 Test Scenario of Sequence diagram Approve Loan Application (SD09)

TC 04_01_02	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Permohonan”	-	Dropdown of the applications should be displayed.	As expected	PASS	Teh Ru Qian	OK
2	Click “Permohonan Pinjaman”	-	The “Permohonan Pinjaman” page should display the list of all active loan applications.	As expected	PASS	Teh Ru Qian	OK
3	Select the applications to approve or reject	Pilih Pinjaman	Loan applications can be selected.	As expected	PASS	Teh Ru Qian	No problem
4	Click “Lulus”	-	The selected application will be approved.	As expected	PASS	Teh Ru Qian	No problem
5	Click “...”	-	The application details will be displayed.	As expected	PASS	Teh Ru Qian	OK
6	Select the status	Select Reject	The selected application will be approved.	As expected	PASS	Teh Ru Qian	Nice

8.4.3 TC04_03 Test Scenario of Sequence diagram Approve Membership Termination (SD12)

TC 04_01_03	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Permohonan”	-	Dropdown of the applications should be	As expected	PASS	Teh Ru Qian	OK

			displayed.				
2	Click “Permohonan Berhenti Menjadi Anggota”	-	The “Permohonan Berhenti Menjadi Anggota” page should display the list of all applications.	As expected	PASS	Teh Ru Qian	OK
3	Click “Alasan”	-	The pop up window that display the reason of termination will be shown	As expected	PASS	Teh Ru Qian	Ok
4	Select the applications to approve or reject	Pilih Applikasi	Membership termination applications can be selected.	As expected	PASS	Teh Ru Qian	No problem
5	Click “Tolak”	-	The pop up window will show to let the user enter the reason for rejection	As expected	PASS	Teh Ru Qian	No problem
6	Click “Hantar”	-	The selected application will be rejected.	As expected	PASS	Teh Ru Qian	No problem
7	Click “...”	-	The application details will be displayed.	As expected	PASS	Teh Ru Qian	OK
8	Select the status	Select Reject	The selected application will be approved.	As expected	PASS	Teh Ru Qian	Nice

8.5 TC05: Test Package 5 Admin Updating Subsystem

User Story: Admin Manage System (US11)

This test contains the following test cases:

- TC05_01: Test Scenario of Sequence diagram Manage System (SD11)
- TC05_02: Test Scenario of Sequence diagram Manage Feedback (SD)

8.5.1 TC05_01 Test Scenario of Sequence diagram Manage System (SD11)

This test case contains the following scenario:

- TC05_01_01 Test Manage System

Table 8.5.1 Test Case for Manage System

TC 05_ 01_ 01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comm ents
1	Click “Transaksi”	-	Dropdown of the transaction action should display.	As expected	PASS	Chua Jia Lin	OK
2	Click “Potongan Gaji”	-	The “Potongan Gaji” page should display the financial information of all active members.	As expected	PASS	Chua Jia Lin	OK
3	Select the members where salary shall be deducted and Select the month and year	Pilih Semua Month: February Year: 2025	Members, month and year can be selected.	As expected	PASS	Chua Jia Lin	No problem
4	Click “Potongan Gaji”	-	The selected member and the list of current and new financial information will be displayed.	As expected	PASS	Chua Jia Lin	OK
5	Enter the receipt number and upload proof	No. resit: 1234 Bukti Transaksi: bukti.pdf	Information can be entered and file can be uploaded.	As expected	PASS	Chua Jia Lin	No problem
6	Click “Hantar”	-	The pop up window of the success of the	As expected	PASS	Chua Jia Lin	No problem

			operation should show.				
7	Click “Transaksi”	-	Dropdown of the transaction action should display.	As expected	PASS	Chua Jia Lin	OK
8	Click “Lain-lain”	-	The “Transaksi Lain” page should display the financial information of all active members.	As expected	PASS	Chua Jia Lin	OK
9	Enter the member number	No. Anggota: 1003	The financial details of the member should be shown.	As expected	PASS	Chua Jia Lin	No problem
10	Enter the transaction amount, receipt number and upload proof	Modal Yuran: 10 Simpanan Anggota: 10 No. resit: 1234 Bukti Transaksi: bukti.pdf	Information can be entered and file can be uploaded.	As expected	PASS	Chua Jia Lin	OK
11	Click “Hantar”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	No problem
12	Click “Polisi”	-	Dropdown of the policies action should display.	As expected	PASS	Chua Jia Lin	No problem
13	Click “Kemaskini Polisi”	-	The “Kemaskini Polisi” page should display the newest policy information.	As expected	PASS	Chua Jia Lin	OK

14	Click “Kemaskini” in the “Polisi Asas Permohonan Anggota” section	-	The list of policies related to membership application should be displayed.	As expected	PASS	Chua Jia Lin	OK
15	Enter updated information for fields to be updated.	Wang Deposit Anggota Minimum: 0 Simpanan Tetap Minimum: 50	New values can be entered	As expected	PASS	Chua Jia Lin	No problem
16	Click “Kemaskini”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	OK
17	Click “Kemaskini” in the “Polisi Permohonan Pembiayaan” section	-	The list of policies related to loan application should be displayed.	As expected	PASS	Chua Jia Lin	No problem
18	Enter updated information for fields to be updated.	Modal Syer Minimum Peminjam: 250	New values can be entered	As expected	PASS	Chua Jia Lin	No problem
19	Click “Kemaskini”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	OK
20	Click “Kemaskini” in the “Polisi Potongan Gaji” section	-	The list of policies related to salary deduction should be displayed.	As expected	PASS	Chua Jia Lin	OK
21	Enter	Minimum	New values can	As	PASS	Chua	No

	updated information for fields to be updated.	Potongan Gaji Simpanan Tetap: 30	be entered	expected		Jia Lin	problem
22	Click “Kemaskini”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	OK
23	Click “Kemaskini Iklan”	-	The “Kemaskini Iklan” page should display the existing active banners.	As expected	PASS	Chua Jia Lin	No problem
24	Enter new banner name and upload new banner	Nama Iklan Baru: Hebahan Aktiviti Muat Naik Iklan Baru: hebahan_aktiviti.jpg	Information can be entered and file can be uploaded.	As expected	PASS	Chua Jia Lin	No problem
25	Click “Muat Naik”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	OK
26	Click “Kemaskini”	-	The list of active and inactive banner are displayed.	As expected	PASS	Chua Jia Lin	OK
27	Click “Aktif” / “Tidak Aktif”	-	A dropdown will show.	As expected	PASS	Chua Jia Lin	No problem
28	Click “Mengaktifkan” / “Menyahaktifkan”	-	The pop up window of the success of the operation should show.	As expected	PASS	Chua Jia Lin	OK

8.5.2 TC05_02 Test Scenario of Sequence diagram Manage Feedback (SD)

This test case contains the following scenario:

- TC05_02_01 Test Manage Feedback

Table 8.5.2.1 Test Case for Manage Feedback

TC 05_02_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/FAIL	Tested By	Tester Comments
1	Click “Maklum Balas”	-	The “Senarai Maklum Balas” page should be shown.	As expected	PASS	Teh Ru Qian	No problem
2	Click “Butiran” icon	-	The “Butiran Maklum Balas” page should display the details of feedback.	As expected	PASS	Teh Ru Qian	OK
3	Enter details	Ubah Status: Selesai Komen Pentadbir: Siap membaiki			PASS	Teh Ru Qian	No problem
4	Click “Kemaskini”		The page should pop up “Adakah Anda Pasti? Status maklum balas akan diubah!” with a question icon.	As expected	PASS	Teh Ru Qian	No problem
5	Click “Ya, hantar”		The page should pop up “Status maklum balas telah berjaya diubah!” with a success icon.	As expected	PASS	Teh Ru Qian	OK
6	Click “OK”		The pop up window should close and	As expected	PASS	Teh Ru Qian	No problem

			redirect to “Senarai Maklum Balas”				
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8.6 TC06: Test Package 6 Reporting Subsystem

User Story: KKK Admin Generate Reports (US10)

This test contains the following test cases:

- TC06_01: Test Scenario of Sequence diagram for Generate Report (SD10)

8.6.1 TC06_01 Test Scenario of Sequence diagram for Generate Report (SD10)

This test case contains the following scenario:

- TC06_01_01: Test Apply Loan shown in Table 8.6.1.1

Table 8.6.1.1 Test case for generate report

TC 06_01_01	Test Steps	Input Data	Expected Result	Actual Results	PASS/ FAIL	Tested By	Tester Comments
1	Click “Laporan”		The report page “Laporan Kewangan” should be open.	As expected	PASS	Lam Yoke Yu	No problem
2	Enter the details	Bulan: Disember Tahun: 2024		As expected	PASS	Lam Yoke Yu	No problem
3	Click “Tapis”		The “Laporan Kewangan Disember 2024” should be display	As expected	PASS	Lam Yoke Yu	No problem
4	Click “Lihat dalam PDF”		The “Laporan Kewangan in PDF” should be open.	As expected	PASS	Lam Yoke Yu	No problem

8.7 Boundary Value Analysis

8.7.1 Member Information Form

This form appears in three parts in the system:

- Member Application Form: Applicant Information (Maklumat Pemohon)
- Update Profile Form: Applicant Information (Butir-butir Peribadi Pemohon)
- Loan Application Form: Application Information

Table 8.7.1 details the fields present in the member information form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.1 Table of equivalence class for member information form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Nama	Name consists of alphabet and symbols such as ‘/’, ‘”’, ‘@’ and ‘ ’	Ali bin Abu	System accept the name
	Name consists of number	1234	System reject the name
No. Kad Pengenalan	Numbers with format of “xxxxxx-xx-xxxx”	040605-10-1587	System accept the ic
	Numbers that does not follow the format of “xxxxxx-xx-xxxx”	040605101587	System reject the ic
	Alphabet	ABC	
Email	Email that consists of “@” and “.com”	tanmeiling@gmail.com	System accept the email
	Email that does not consists of “@” or “.com”	User123.com	System reject the email
Jantina	Values from the available radio button 1: Lelaki 2: Perempuan	1	System accept the gender
Agama	Values from the available radio button 1: Islam 2: Buddha 3: Hindu 4: Kristian 5: Lain-lain	1	System accept the religion
Bangsa	Values from the available radio button 1: Melayu 2: Cina 3: India 4: Lain-lain	1	System accept the race

Taraf Perkahwinan	Values from the available selection 1: Bujang 2: Kahwin 3: Cerai 4: Kematian Pasangan	1	System accept the marital status
Alamat Rumah	Mixture of alphabets, numbers, and special characters	10, Jalan Ali	System accept the home address
Bandar	Alphabets	Ipoh	System accept the home city
	Number	123	System reject the home city
	Special character	Johor @ Bahru	
Negeri	Values from the available selection 1: Johor 2: Kedah 3: Kelantan 4: Melaka 5: Negeri Sembilan 6: Pahang 7: Pulau Pinang 8: Sabah 9: Sarawak 10: Selangor 11: Terengganu 12: WP Kuala Lumpur 13: WP Labuan 14: WP Putrajaya 15: Perak 16: Perlis	1	System accept the home state
Poskod	5 numbers	36000	System accept the home postcode
	Value consisting alphabet, number, or special characters	3@a0	System reject the home postcode
Jawatan	Mixture of alphabets, numbers, and special characters	Kerani	System accept the position
Gred Jawatan	Mixture of alphabets, numbers, and special characters	A23	System accept the position grade
PF No.	Number	1001	System accept the pf number
	Negative number or decimal, or alphabet	-1@a8.6	System reject the pf number

Alamat Pejabat	Mixture of alphabets, numbers, and special characters	10, Jalan Ali	System accept the office address
Bandar	Alphabets	Ipoh	System accept the home city
	Number	123	System reject the home city
	Special character	Johor @ Bahru	
Negeri	Values from the available selection 1: Johor 2: Kedah 3: Kelantan 4: Melaka 5: Negeri Sembilan 6: Pahang 7: Pulau Pinang 8: Sabah 9: Sarawak 10: Selangor 11: Terengganu 12: WP Kuala Lumpur 13: WP Labuan 14: WP Putrajaya 15: Perak 16: Perlis	1	System accept the home state
Poskod	5 numbers	36000	System accept the home postcode
	Value consisting alphabet or special characters	3@a0	System reject the home postcode
No. Telefon Fax	10 or 11 digit number	12345678901	System accept the fax number
	Value consisting alphabet, number, or special characters	abc	System reject the fax number
No. Telefon Bimbit	10 or 11 digit number	12345678901	System accept the phone number
	Value consisting alphabet, number, or special characters	abc	System reject the phone number
No. Telefon Rumah	9 digit number	123456789	System accept the home number
	Value consisting alphabet, number, or special characters	abc	System reject the home number

Gaji Sebulan	Positive number or decimal	3500.50	System accept the monthly salary
	Alphabet or negative number or decimal	-321a.60	System reject the monthly salary

8.7.2 Heir Information Form

This form appears in two parts in the system:

- Member Application Form: Heir Information (Maklumat Keluarga dan Pewaris)
- Update Profile Form: Heir Information (Maklumat Keluarga dan Pewaris)

Table 8.7.2 details the fields present in the heir information form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.2 Table of equivalence class for heir information form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Nama	Name consists of alphabet and symbols such as '/', '"', '@' and ''	Ali bin Abu	System accept the name
	Name consists of number	1234	System reject the name
No. Kad Pengenalan	Numbers with format of "xxxxxx-xx-xxxx"	040605-10-1587	System accept the ic
	Numbers that does not follow the format of "xxxxxx-xx-xxxx"	040605101587	System reject the ic
	Alphabet	ABC	
Hubungan	Values from the available selections 1: Suami Isteri 2: Anak 3: Keturunan 4: Orang Tua 5: Saudara kandung 6: Lain-lain	1	System accept the heir relation with member

8.7.3 Fee and Contribution Form

This form appears once in the system:

- Member Application Form: Fee and Contribution (Yuran dan Sumbangan)

Table 8.7.3 details the fields present in the fee and contribution form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.3 Table of equivalence class for fee and contribution form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Fee Masuk	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	20.00	Rejected by the system
	Alphabet	-10a.50	
Modal Syer	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	20.00	Rejected by the system
	Alphabet	-10a.50	
Modal Yuran	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	20.00	Rejected by the system
	Alphabet	-10a.50	
Wang Deposit Anggota	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	
Sumbangan Tabung Kebajikan (Al-Abrar)	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	
Simpanan Tetap	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	

Lain-lain	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	

8.7.4 Salary Deduction Form

This form appears in one part in the system:

- Update Member Profile: Salary Deduction Information (Potongan Gaji)

Table 8.7.4 details the fields present in the salary deduction form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.2 Table of equivalence class for salary deduction form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Tabung Anggota	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	
Simpanan Tetap	Positive decimal greater than the minimum value	50.00	Accepted by the system
	Value lesser than the minimum value	-10	Rejected by the system
	Alphabet	-10a.50	

8.7.5 Loan Application Form

This form appears once in the system in the member interface loan application form (Mohon Pinjaman).

Table 8.7.5 details the fields present in the loan application form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.5 Table of equivalence class for loan application form

Field Name	Equivalence Class	Representative (BVA)	Expected Result

Jenis Pembiayaan	Values from the available selection 1: Al-Bai 2: Al-Innah 3: Baik Pulih Kenderaan 4: Road Tax dan Insurans 5: Khas 6: Karnival Musim Istimewa 7: Al-Qadrul Hassan	1	Accepted by the system
Amaun Dipohon	Positive decimal less than or equal to the maximum applicable loan for the selected loan type	1000.00	Accepted by the system
	Positive decimal greater than the maximum applicable loan for the selected loan type	9999999999.99	Rejected by the system
	Negative decimal or alphabet	-10a.50	
Tempoh Pembiayaan	Positive integer less or equal to than the maximum repayment period	6	Accepted by the system
	Negative integer or alphabet	-10a	Rejected by the system
Nama Bank/ Cawangan	Values from the available selections 1: Affin Bank 2: Agrobank 3: Al Rajhi Bank Malaysia 4: Alliance Bank 5: AmBank 6: Bank Islam 7: Bank Muamalat 8: Bank Rakyat 9: BSN 10: CIMB 11: Citibank Malaysia 12: Co-op Bank Pertama 13: Hong Leong Bank 14: HSBC Malaysia 15: Maybank 16: MBSB Bank 17: OCBC Malaysia 18: Public Bank 19: RHB 20: Standard Chartered Malaysia 21: UOB Malaysia	1	Accepted by the system

Bank Account	Positive number	1234567890	Accepted by the system
	Alphabet or special characters	-103486a	Rejected by the system
Gaji Kasar Bulanan	Positive decimal	3000.00	Accepted by the system
	Negative decimal or alphabet	-3000a.50	Rejected by the system
Gaji Bersih Bulanan	Positive decimal	3000.00	Accepted by the system
	Negative decimal or alphabet	-3000a.50	Rejected by the system
Tandatangan	Filetype is .png, .jpg, .jpeg	image.jpg	Accepted by the system
	Filetype is not .png, .jpg, .jpeg	image.pdf	Rejected by the system

8.7.6 Feedback Form

This form appears once in the system in the member interface, feedback form (Maklum Balas).

Table 8.7.6 details the fields present in the feedback form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.2 Table of equivalence class for feedback form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Jenis Maklum Balas	Values from the available selection 1: Cadangan 2: Masalah	1	Accepted by the system
Maklumat Maklum Balas	Mixture of alphabets, numbers, and special characters	Warna biru bukan warna kegemanaran saya.	System accept the feedback content

8.7.7 Member Termination Application Form

This form appears once in the system in the member interface, member termination form (Berhenti Menjadi Anggota).

Table 8.7.7 details the fields present in the member termination application form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.7 Table of equivalence class for member termination form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Sebab Berhenti Menjadi Anggota	Mixture of alphabets, numbers, and special characters	Kami sekeluarga berpindah ke negeri lain.	Accepted by the system

8.7.8 Member Application Approval Form

This form appears once in the system in the admin interface, member application approval (Permohonan Anggota).

Table 8.7.8 details the fields present in the member application approval form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.8 Table of equivalence class for member application approval form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
No Anggota	Numbers	1001	Accepted by the system
	Value consisting alphabet or special characters	1@a3	Rejected by the system

8.7.9 Update Policies Form

This form appears once in the system in the admin interface, updating policies (Kemaskini Polisi).

Table 8.7.9 details the fields present in the update policies form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.9 Table of equivalence class for update policies form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Fee Masuk	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Fee Masuk Anggota yang Pernah	Positive Integer	50	Accepted by the system

Menjadi Anggota	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Modah Syer Minimum	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Modal Yuran Minimum	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Wang Deposit Anggota Minimum	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Sumbangan Tabung Kebajikan Minimum	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Simpanan Tetap Minimum	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Lain-lain	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Modal Syer Minimum Peminjam	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the

	Non number characters	abc@	system
Tempoh Ansuran Maksima	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Pembayaran Maksima	Positive Integer	50000	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Kadar Keuntungan	Positive Decimal	4.20	Accepted by the system
	Negative Decimal	-10	Rejected by the system
	Non number characters	abc@	
Simpanan Tetap	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Minimum Potongan Gaji Simpanan Tetap	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Sumbangan Tabung Kebajikan	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	
Minimum Potongan Gaji Sumbangan Tabung Kebajikan	Positive Integer	50	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	

Hari Tutup (Cut-Off Day)	Positive Integer	25	Accepted by the system
	Negative Integer	-10	Rejected by the system
	Non number characters	abc@	

8.7.10 Upload Banner Form

This form appears once in the system in the admin interface, update banner (Kemaskini Iklan).

Table 8.7.10 details the fields present in the upload banner form and the equivalence class of the accepted and rejected values for the fields.

Table 8.7.10 Table of equivalence class for upload banner form

Field Name	Equivalence Class	Representative (BVA)	Expected Result
Nama Iklan Baru	Mixture of alphabets, numbers, and special characters	Iklan Baru.	Accepted by the system
Muat Naik Iklan Baru	Filetype is .png, .jpg, .jpeg	image.jpg	Accepted by the system
	Filetype is not .png, .jpg, .jpeg	image.pdf	Rejected by the system

9. Traceability Matrix

Table 9.1 shows the traceability matrix of the system. It extends from the traceability section by including cross reference to sequence diagrams and test cases.

Table 9.1: Example of Traceability Matrix for KKK Online System

Sprint No	Package Item	User Story	User Story Description	Sequence Diagram ID	Sequence Diagram Description	Test Case ID
Sprint 1 User Module	Package 1 User Management	US01	KADA Employee Apply membership	SD001	Apply Membership	TC01_04
		US06	Admin Login to System	SD002	Log In	TC01_05
	Package 2 Member Management	US02	Member Update User Profile	SD003	Update User Profile	TC01_01 - TC01_03
Sprint 2 Member Module	Package 2 Member Management	US03	Member View Financial Status	SD004	View Financial Status	TC02_01 - TC02_02
		US07	Member Apply Membership Termination	SD007	Apply Membership Termination	TC02_04
	Package 3 Loan Management	US04	Member Apply for a Loan	SD005	Apply Loan	TC03_01
		US05	Member View Loan Application Status	SD006	View Loan Application Status	TC03_02
Sprint 3 Admin Approve Module	Package 4 Approval Management	US08	Admin Approve New Member Application	SD008	Approve Membership	TC04_01
		US09	Admin Approve Loan Application	SD009	Approve Loan Application	TC04_02
		US12	Admin Approve Membership Termination	SD012	Approve Membership Termination	TC04_03
Sprint 4 Admin Module	Package 6 Reporting	US10	Admin Generate Reports	SD010	Generate Report	TC06_01

	Package 5 Admin Updating	US11	Admin Manage System	SD011	Manage System	TC05_01
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