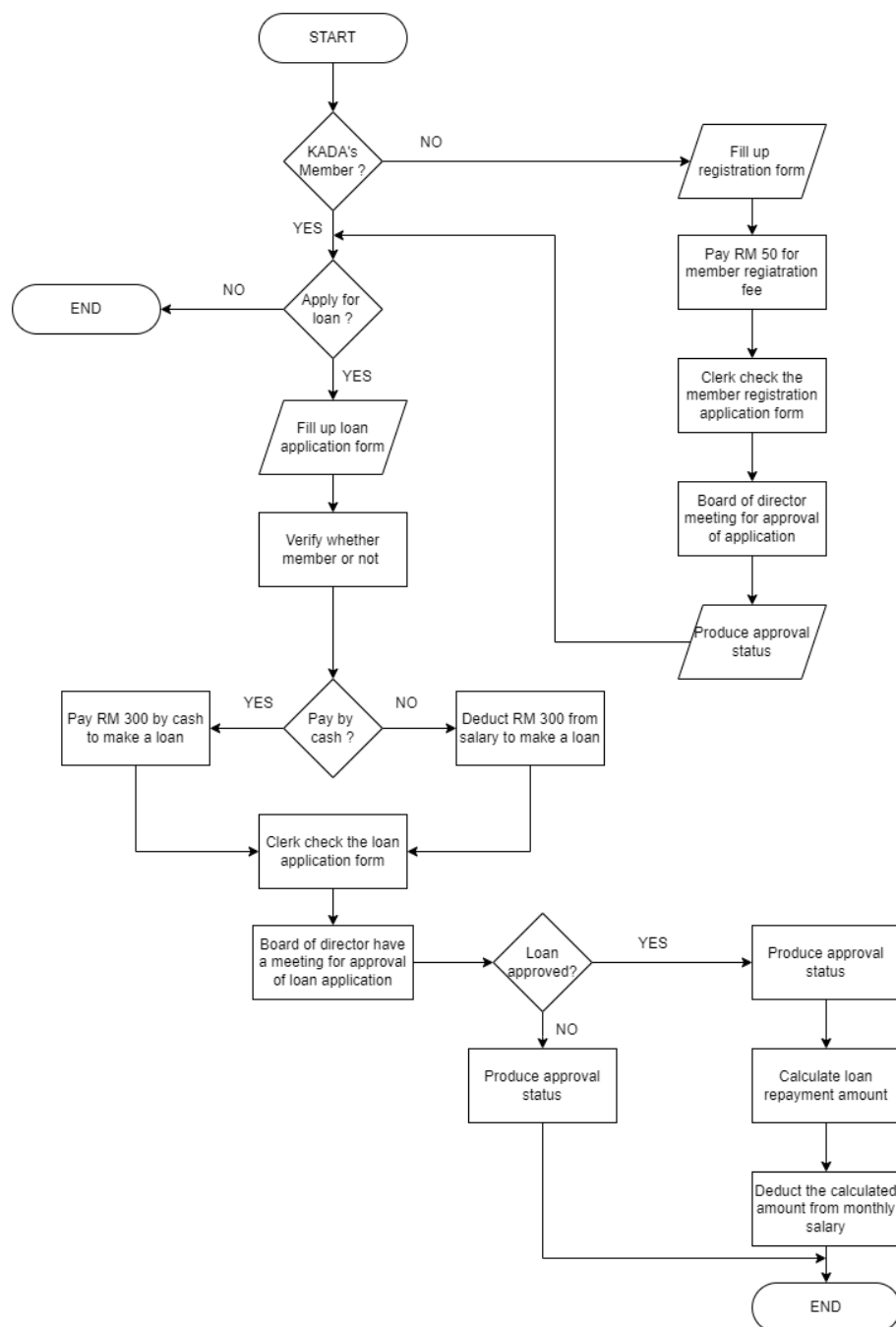


9.0 Requirement Analysis

9.1 Current business process (scenarios, workflow)

In the existing system, employees interested in applying for membership or a loan must individually complete application forms and submit them to the clerk for information verification. Subsequently, the clerk reviews all application details and forwards the validated forms to the board of directors. After that, the board of director will have a meeting for the approval for loan and member application. Next, after meeting the clerk will inform the approval status to the applicant.

Diagram below shows the flowchart for the current business process:



9.2 Functional Requirement (input, process and output)

The functional requirements for the system are defined through a detailed analysis of the inputs, processes, and outputs for each type of user within the system. This section outlines the specific functions that new users, members, clerks, and the board of directors will perform, highlighting the necessary data inputs, the processes applied to these inputs, and the expected outputs.

For a new user, the input is their user information. This information is processed to register the member, resulting in an output of the member registration status. Members interact with the system by providing inputs such as loan applications and monthly salary deductions. The loan application is processed to apply for a loan, generating an output of the loan application status. The monthly salary deduction is processed into savings, and the output is an individual report.

Clerks handle the registration and loan applications. They receive inputs in the form of new user member registrations and member loan applications. The process involves checking the registrations and loan applications, which results in outputs of filtered member registrations and filtered loan applications, respectively.

The board of directors works with filtered member registrations and filtered loan applications as inputs. They process these to approve registrations and loans, resulting in outputs of member registration status and loan application approval.

This structure ensures that the system is well-organized and efficient, with clear inputs, processes, and outputs for each user type, thereby enhancing the overall functionality and usability of the system.

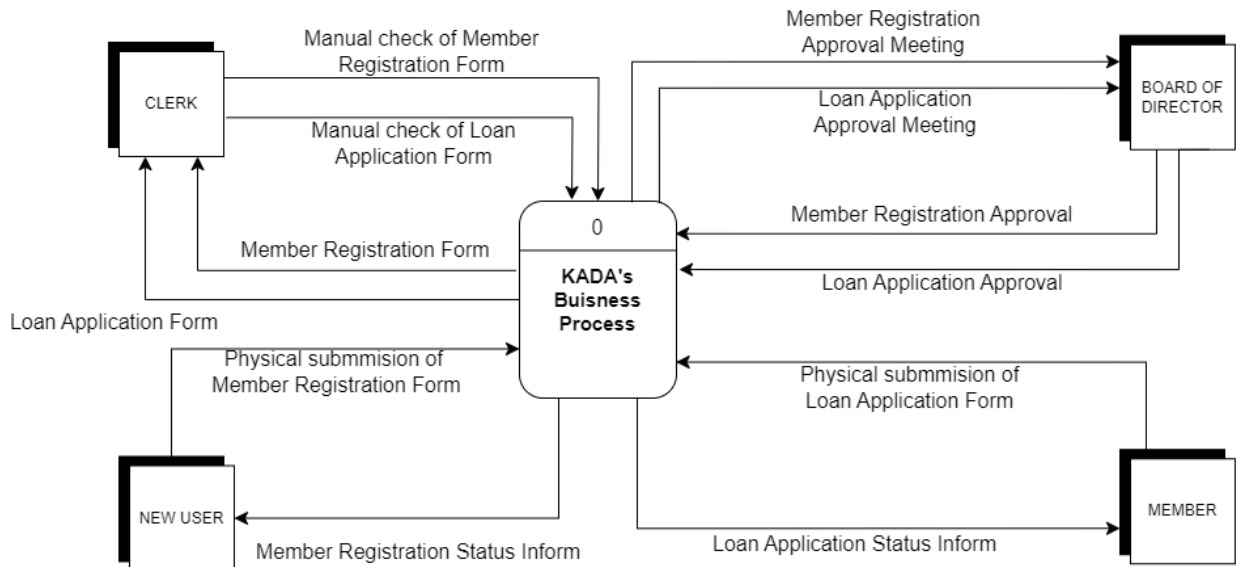
9.3 Non-functional Requirement (performance and control)

- The application forms should be intuitive and easy to navigate
- Verify that the format of user inputs adheres to the required specifications and standards
- Submission of member and loan applications shall be processed and responded to within a short period of time
- The website would instantly update the most current information and data available if any changes occurred
- Create a clear, logical layout with well-labeled sections and buttons, ensuring menus and navigation bars are easy to find
- Regularly create data backups to prevent loss and enable restoration in case of corruption or deletion
- Various payment methods are offered
- Calculation of loan and dividend automatically
- Precise generation of various reports, respectively

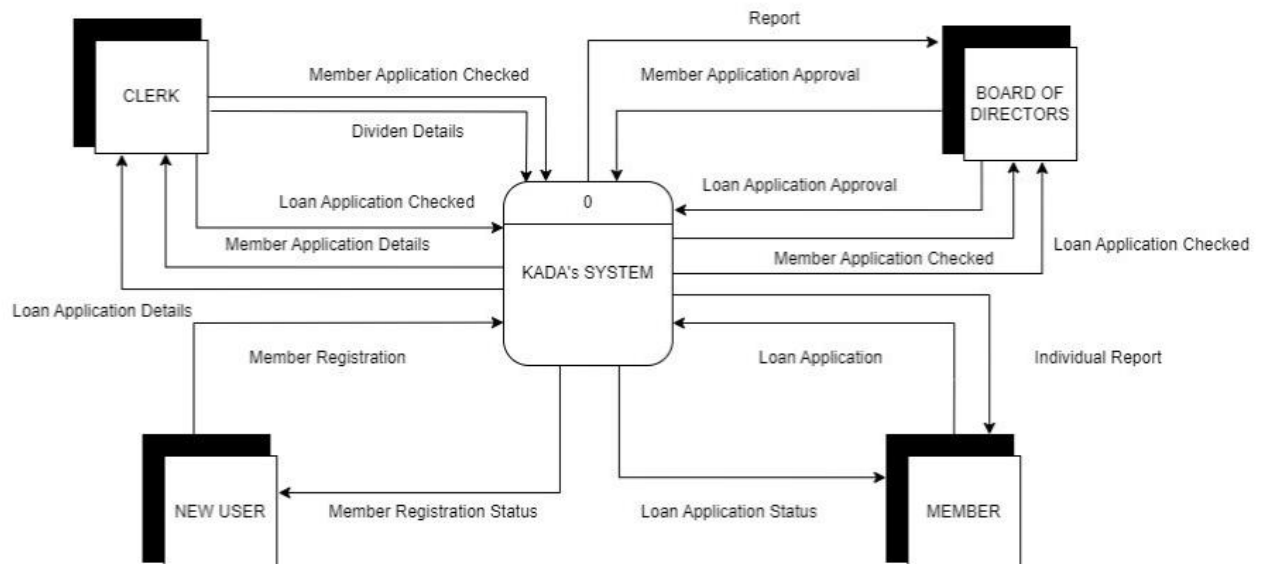
9.4 Logical DFD AS-IS system

9.4.1 Context Diagram

- As – Is

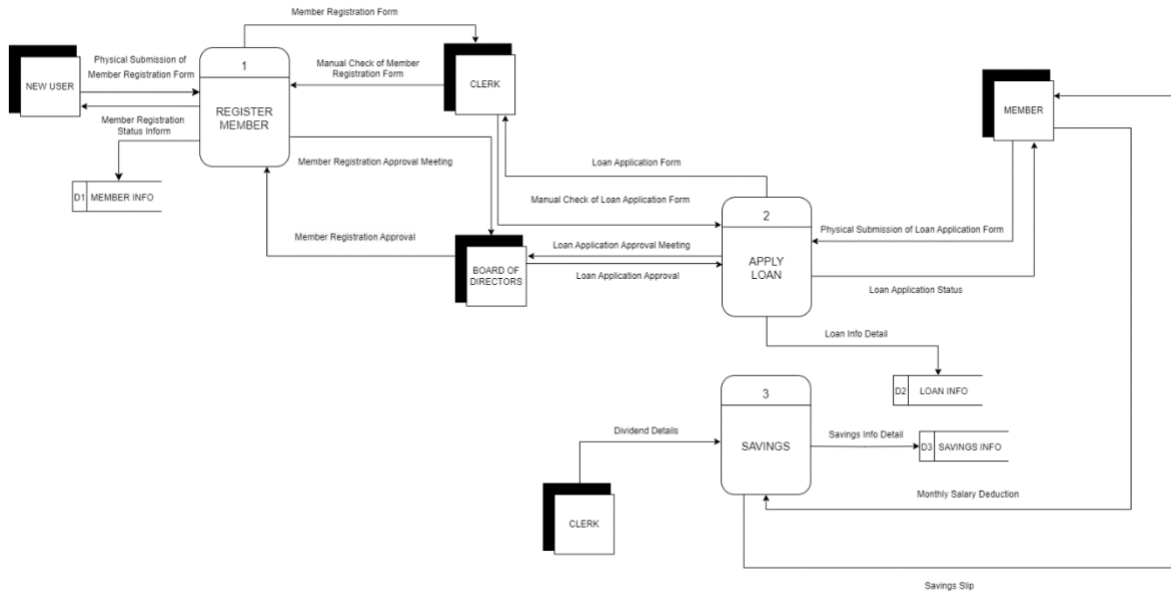


- To Be

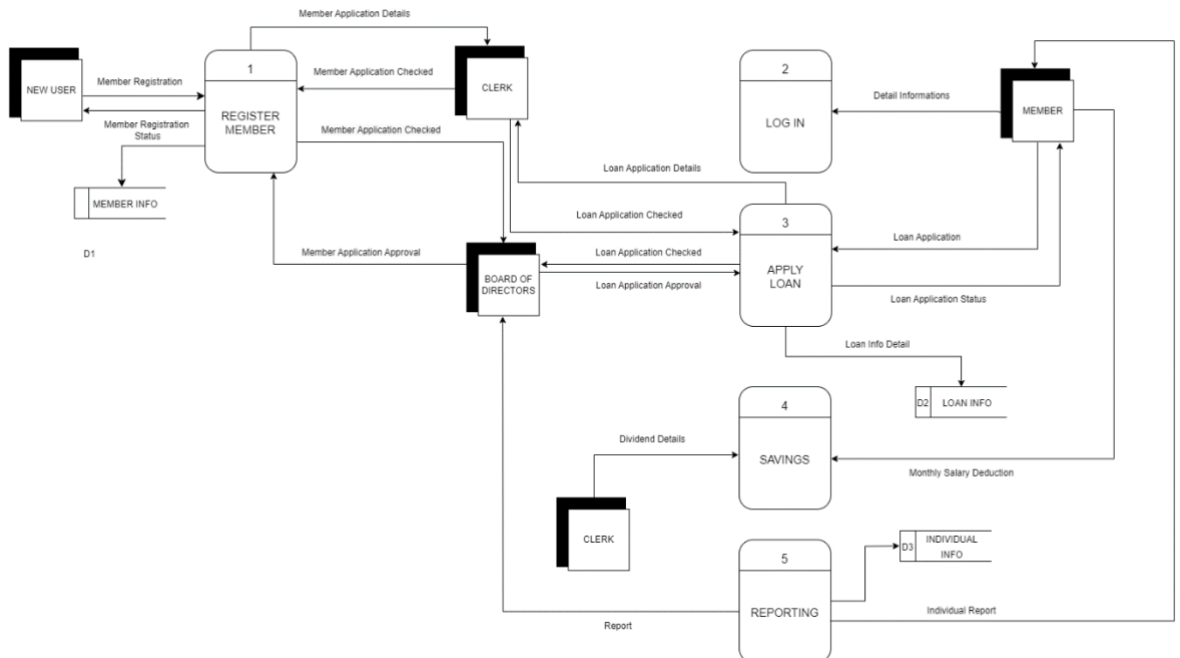


9.4.2 Diagram 0

• As – Is

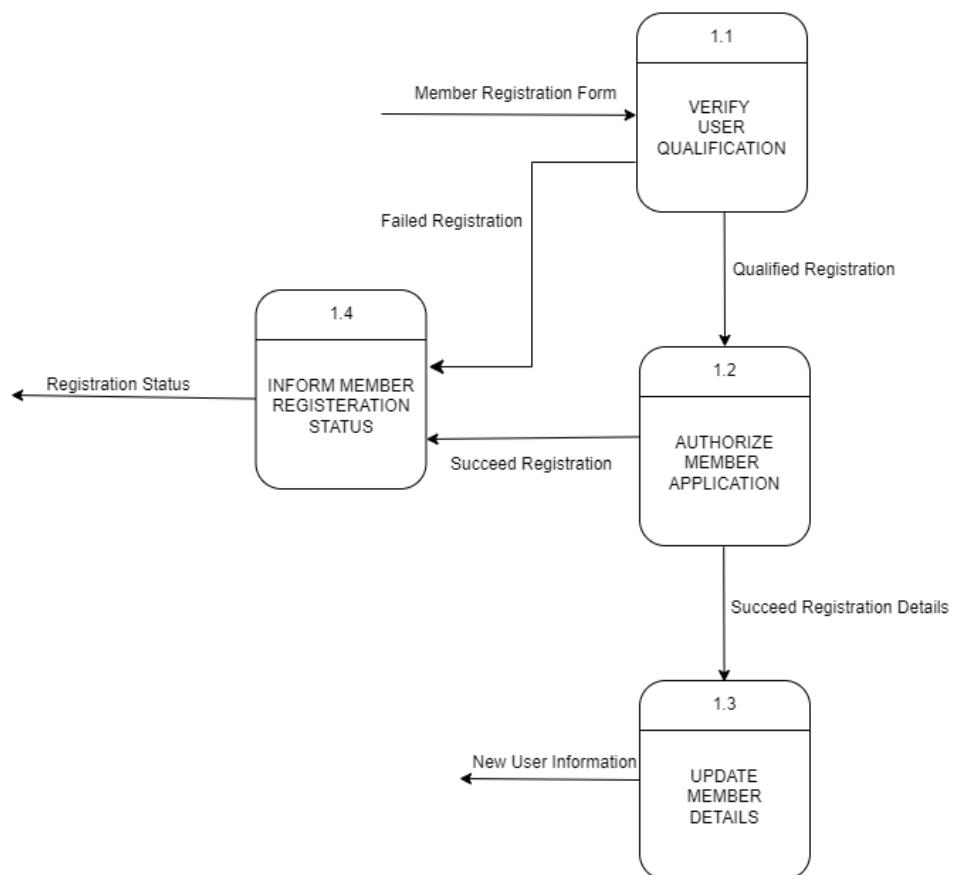


• To Be

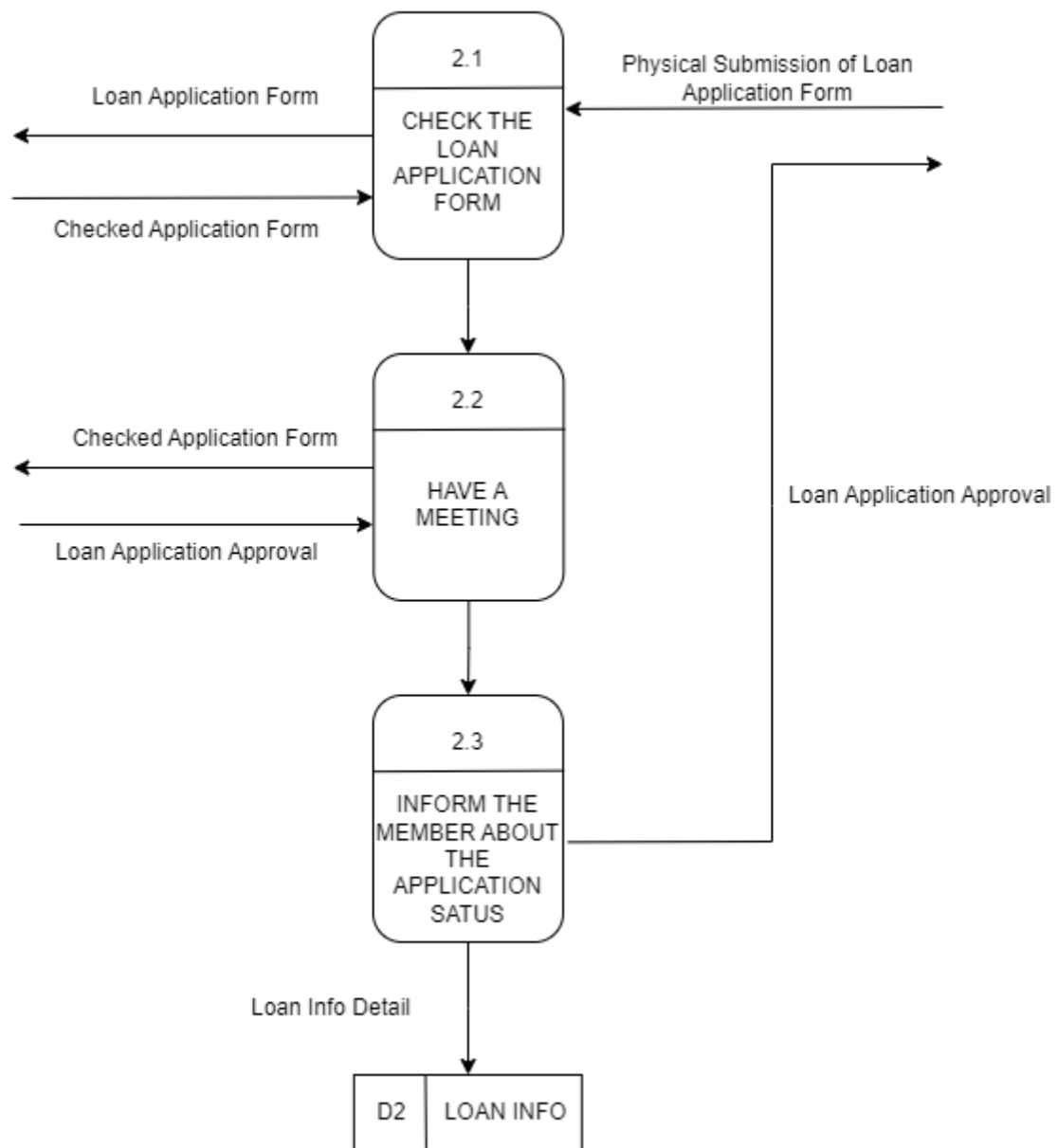


9.4.3 Child Diagram

Process 1 – Register Member



Process 2 – Apply Loan



Process 3 – Savings

