COURSE UNITY: *SYSTEM ANALYSIS AND DESIGN.*

NAME: *ANIRU DENIS*
ACCESS NUMBER: *B24302*
REGISTRATION NO.: *S23B13/010*

Jami LoanCare Software System Development

Abstract

Jami Loan Care is a software system designed to address the issue of weak loan recovery among Savings and Credit Cooperatives (SACCOs) in Uganda. The system aims to streamline loan management processes, improve loan tracking, and enhance overall loan recovery rates.

This report outlines the system's development process, utilizing Unified Modeling Language (UML) diagrams to model its structure, behavior, and interactions. The key diagrams employed include use case diagrams, sequence diagrams, and class diagrams. The report also details the system's functionalities, user roles (SACCO members, administrators, and regulatory authority), and core processes.

Jami Loan Care offers a comprehensive solution for SACCOs by providing a centralized platform for loan management, improving efficiency, and promoting financial sustainability.

Introduction

Jami Loan Care is a software system designed to address the prevalent issue of weak loan recovery among Savings and Credit Cooperatives (SACCOs) in Uganda. The system aims to streamline loan management processes, improve loan tracking, and enhance overall loan recovery rates.

System Design and Development

The development of Jami Loan Care involved a vigorous design process, utilizing UML diagrams to visualize and model the system's structure, behavior, and interactions. The diagrams employed were:

> **Use Case Diagrams:** These diagrams depict the interactions between the system and its users. For Jami LoanCare, the primary use cases include:

Loan Application: A member applies for a loan.

Loan Approval: The SACCO administrator approves or rejects the loan application.

Loan Disbursement: The loan is disbursed to the member.

Loan Repayment: The member repays the loan.

Loan Recovery: The SACCO initiates recovery procedures for delinquent loans.

Regulatory Reporting: The SACCO generates reports for regulatory authorities.

Sequence Diagrams: These diagrams show the sequence of interactions between objects in the system. For Jami LoanCare, sequence diagrams were used to model the flow of events in use cases like loan application, disbursement, and repayment.

Class Diagrams: These diagrams illustrate the static structure of the system by representing classes, their attributes, and relationships. For Jami LoanCare, class diagrams defined the entities involved in the loan management process, such as members, loans, repayments, regulatory authority and administrators.

System Functionality and User Roles

Jami Loan Care operates as a centralized platform that streamlines various loan management tasks. The system's functionalities and user roles are as follows:

SACCO Members:

Loan Application: Members can apply for loans online or through the SACCO's physical office.

Loan Repayment: Members can make loan repayments through various channels, including mobile money, bank transfers, or at the SACCO's office.

Account Access: Members can access their loan accounts online to view balances, repayment schedules, and transaction history.

SACCO Administrators:

Loan Approval: Administrators review loan applications, assess creditworthiness, and approve or reject loans.

Loan Disbursement: Administrators authorize the disbursement of approved loans.

Loan Tracking: Administrators can monitor loan repayment progress and identify delinquent accounts.

Reporting: Administrators generate various reports, including loan performance, delinquency rates, and regulatory compliance reports.

Regulatory Authority

The regulatory authority plays a crucial role in overseeing the operations of SACCOs and ensuring compliance with relevant regulations. Jami Loan Care provides the regulatory authority with the following capabilities:

Data Analysis and Audit Findings: The regulatory authority can access data from Jami Loan Care to conduct in-depth analysis and identify potential compliance issues. This includes analyzing loan portfolios, repayment rates, and financial performance.

Reporting: The system can generate a variety of reports required by the regulatory authority, including:

Loan Portfolio Analysis: Reports that provide insights into the composition and quality of SACCOs' loan portfolios.

Financial Statements: Detailed financial reports that reflect the SACCO's financial health and performance.

Compliance Reports: Reports that assess SACCOs' adherence to regulatory requirements, such as loan-to-value ratios, interest rates, and reserve requirements.

System Processes

The core processes within Jami Loan Care include:

Loan Application and Approval: Members submit loan applications, which are reviewed and approved or rejected by administrators.

Loan Disbursement: Approved loans are disbursed to members through designated channels.

Loan Repayment: Members make loan repayments according to their agreed-upon schedules.

Loan Tracking and Recovery: The system tracks loan repayments and identifies delinquent accounts. Recovery procedures, such as reminders and legal actions, are initiated for overdue loans.

Reporting: The system generates various reports for SACCO administrators and regulatory authorities, providing insights into loan performance, delinquency rates, and financial health.

Credit Risk Assessment: The system assesses the creditworthiness of loan applicants based on various factors, including credit history, income, and debt-to-income ratio.

Conclusion

Jami Loan Care is a comprehensive software solution that addresses the challenges of weak loan recovery among SACCOs in Uganda. By leveraging UML diagrams for system design, the system effectively models the interactions between users and the system, ensuring efficient loan management processes. The system's functionalities and user roles empower SACCO members, administrators, and regulatory authorities to improve loan recovery rates, enhance financial performance, and promote sustainable development within the cooperative sector.