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MAKERERE UNIVERSITY
MAKERERE UNIVERSITY BUSINESS SCHOOL FACULTY OF
COMPUTING & INFORMATICS

IT Project Development

Project Proposal for the Degree of Bachelor of Business Computing of Makerere
University

ACADEMIC YEAR 2025/2026

**DEVELOPING A WEB-BASED SYSTEM FOR CAPITAL INVESTMENT CLUB,
KAMPALA DISTRICT**

By

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A Project Proposal Submitted to the Faculty of Computing & Informatics of Makerere University

Business School in Partial Fulfilment for the Award of the Degree of Bachelor of Business

Computing of Makerere University

23rd November, 2025

DECLARATION

We, the undersigned, declare that to the best of our knowledge, this proposal is our original piece of work, and has never been published and/or submitted for any award in any other University or Higher Institution of Learning.

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APPROVAL

This project proposal has been submitted with my approval as supervisor, and my signature is here appended:

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Makerere University Business School

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SECTION ONE

INTRODUCTION

1.1 Project Background

Web-based financial systems have become an important part of modern financial management across because they help organisations securely store data, improve accuracy and manage daily operations online. Many financial groups, cooperatives, and community savings cooperatives now use web-based platforms to record savings, track loans, and monitor activities regularly. In Uganda, the use of web-based financial solutions because people need transparent ways of managing their money. Community financial groups such as savings clubs and investment clubs adopt web-based systems to reduce manual errors and improve accountability (Miao, Hinostroza et al. 2022) This shows that financial groups in Uganda can gain great value adopting a web-based financial management system to improve efficiency, data security, and trust among members

Developing a web based system is important because many investment clubs still rely on manual record keeping, which causes delays, errors, and poor tracking of member's savings and contributions. A web based system will help the club keep accurate records and manage transparency among members. It will also support better decision making since financial reports will be generated automatically. For investment clubs that want to grow, such a system is appropriate since it improves member trust and support better financial management as clubs continue to play a key role in increasing savings, promoting financial inclusion, and contributing to Uganda's economic development.

The capital investment club is a member-based financial organisation that enables its members to save and invest money, which can later be accessed through loans. Capital investment club is comprised of small business owners in Kampala. Even though the club strongly aims at improving the financial status of its members, it currently faces challenges in member management, records and updates. Coordinating meetings and sharing timely updates is also difficult, especially for members who cannot make it physically. Internal reviews and feedback from different members

have shown the need for the development of a web based system that can automate tasks accurately.

The club faces difficulties in managing member's savings and loans due to its reliance on manual record keeping, resulting to errors and delays. to solve these issues, the study proposes to develop a web based system for capital investment club. This new system is intended to automate member registration, records savings and member transactions generate real time reports and offer secure access to member accounts. By implementing this solution, the club's operational efficiency will improve allowing members and management improve their financial decisions.

1.2 Statement of the problem

A well-designed web-based system should enable Capital investment club to manage savings, loans, member registration, financial reports, quickly and accurately, providing clear records, tracking payments and timely reports for better decision making (Ozili 2022). However, the club currently relies on manual, paper based system where registering involves filling out physical forms and all savings and loan details are written in simple spreadsheets. The reliance on manual record keeping has caused several problems, including errors in records, loss of important information, and delays in updating member balances (Nasrullah 2025). The management find difficulty in tracking loan repayments and produce correct financial reports on time, leading to issues like loss of member trust and decline in membership if the situation persists. To prevent negative results, this study aims to design and develop a web based system that will automate savings and loans, store information, provide real time reports, allow member registration hence improving transparency (Battelli, Rapetti et al. 2020) for Capital investment club.

1.3 Project Goal and Objectives

1.3.1 Project Goal

This project seeks to design and develop a web based system for Capital investment club to improve how saving and loans are managed within the club.

1.3.2 Project Objectives

To study and analyse the current system used by Capital investment club.

To identify system requirements for designing a web-based system tailored to the club's operational needs.

To design and develop a web-based system that will automate member registration, savings and loan operations.

To test and evaluate the performance of the developed web-based management system to ensure it meets the needs of the Capital Investment Club.

1.3.3 Project Scope Summary

This project will be conducted over a period of one academic semester and involves a series of activities aimed at designing, developing and testing a web operations system for Capital Investment Club. The system will automate member registration, contribution tracking, loan repayment and financial reports.

1.4 Anticipated Significance

The development of the web-based system will allow the club overcome challenges caused by annual record keeping, such as delays and loss of information. .it will automate the management of member's savings, loans, member registration and financial reports making operations faster and accurate. The project will provide practical experience, allowing the team to gain hands-on experience in developing web-based applications.

1.5 Project Assumptions

Assumption 1: Availability of resources

The team assumes that all necessary tools and technologies such as laptop, stable internet access and required open source software development tools (HTML, CSS, JavaScript, and MySQL), will be available throughout the project.

Assumption 2: Stakeholder engagement and support.

It is assumed that key stakeholders, including administrators, members, academic supervisor, will readily be available to provide timely feedback, participate in interviews, and validate system requirements. The students will also remain committed until the project is complete.

Assumption 3: Stability of Project Scope and Requirements

The team assumes that the project scope, focused on automating contributions, loans, member registration, and meeting coordination, will remain stable after initial approval and that no major changes will be introduced during the development.

Assumption:4 Technical compatibility and system integration.

The project assures that the selected technology stack (HTML, CSS, JavaScript, PHP and MYSQL) will be compatible with the club's operational needs and will function as expected during development and deployment.

Assumption 5: Access to Data and Literature

The team assumes that relevant documents for Capital investment club (e.g. financial records) and necessary academic literature will be accessible to support system analysis, requirement specification and validation. This includes access to internal audit reports, member contribution logs, and investment summaries that will inform the system design.

Assumption6: Network reliability and affordability

The team assures the internet connection will remain stable and reliable to support the development and testing.

Assumption7: Timely completion and institutional support

The assurance that the project will be completed with the academic semester as scheduled with continued support from instructors, mentors and the host organisation. budgetary constraints will be minimal and institutional resources will be sufficient to facilitate project activities.

SECTION TWO

REVIEW OF LITERATURE

2. INTRODUCTION

This literature review explores key themes relevant to the design and development of the web-based system for capital investment club in Kampala. It is structured according to the project's objectives and focuses on recently scholarly and industry literature related to financial technologies (FinTech), digital financial inclusion, SACCO management, and mobile financial systems.

2.1 Automated Financial Technologies (FinTechs) / Digital Financial Inclusion

Automated financial technologies commonly known as FinTechs, have transformed how people save, borrow, and invest money. FinTech uses digital tools to make financial services more secure and easier to access. Around the world, the system helps individuals and groups including investment clubs and SACCOs to manage their finances effectively. According to (Ozili 2023) digital financial system promotes financial inclusion allowing people access savings, loans and payments. In Uganda, the rise of mobile and web-based platforms has enabled more people to participate in formal financial activities. This shows that automation improves record keeping, reduces fraud and supports transparency in small organisations such as investment clubs (Wema and Kabagambe 2025).

2.2 Management of Savings and Credit Societies

Savings and Credit Cooperative Organisations (SACCOs) help communities to save money and access loans. Many SACCOs still use manual system which are slow and lead to mistakes. According to the Ministry of Finance, Planning and Economic Development (2023), SACCOs support financial inclusion, especially in rural areas where formal banks are limited. However, many SACCOs still face problems such as poor record keeping, and management of funds; these challenges often reduce member trust and affect growth. Introduction of web based financial system can help SACCOs and similar clubs improve transparency and keep accurate records (Watsemba, Moya et al. 2024)

2.3 SACCOs in Uganda

Savings and Credit Cooperative Organisations (SACCOs) in Uganda play big role in Uganda supporting small businesses and families. Most SACCOs use paper-based systems which are hard to manage as they grow. Digital tools can help SACCOs to work faster and be more accurate. They also improve transparency and trust among members (Dias, Xidonas et al. 2025)

2.4 Web based financial management systems

Web based financial management systems allow users to manage their financial records through online platforms that can be accessed on any other devices with an internet connection. The systems make it possible for organisations to record savings, process loan and generate report automatically. According to Kumar and Singh (2022), web-based systems are more flexible and cost effective than desktop applications because they don't require instalment and can be accessed remotely. For an investment club like Capital Investment Club, such a system would help the management team to update records instantly, share information with members and ensure that financial data is stored securely in one place. (Ndanusa, Adofu et al.)

2.5 Designing Web based financial management Apps

Designing a good web-based app means understanding what users need. The app should be simple, secure and match the rules of the SACCOs. It should allow members to login safely, view their records and get updates. Developers should work closely with SACCO leaders to collect requirements and test the system. User centred design helps to ensure that the system meets its needs. For Capital Investment Club, the design will focus on features like member registration, savings tracking, loan management and report generation. The system will also include security to protect the member's financial records from unauthorised access (Turyatumba and Turyasingura).

2.6.1 Implementation Web-based financial management systems

Implementation of the new system involves training users, testing functionality and gradually replacing the old manual system. Effective implementation helps to ensure that users understand how to operate the system and that it performs expected. Kato (2023) noted that successful implementation depends on the user improvement and support from management. For the Capital Investment Club this means training the club members to use the new system and maintaining regular updates to improve the performance

2.6.1 Importance of Web based financial management systems

Web based system improve accuracy, speed and security in financial management. They also reduce paper work and provide real time access to financial data, which helps in decision making. According to World Bank (2022), web-based systems increase efficiency and promote financial discipline among users.

2.7.1 Challenges in designing and implementing FinTech systems in SACCOs

Despite the benefits, digital financial systems face several challenges, especially small organisations. These include limited technological knowledge, high set up costs, poor internet access and data security risks. A study by Babirye (2023) found that many community savings groups in Uganda hesitate to adopt technology due to lack of training and fear of losing data. Such challenges must be addressed through proper training and strong data protection policies

2.7.2 Overcoming the challenges

To solve these problems, project teams must ensure that users are trained and the system is simple and affordable. Regular maintenance and technical support are also important for smooth operations. According to OECD (2023), providing digital skills and training, and ensuring reliable internet connectivity can greatly improve the adoption of financial technologies among small groups. Capital Investment Club can therefore overcome its current management problems by adopting a secure, user-friendly web-based system (Coll, Donaldson et al. 2021)

2.8 Conclusion

In conclusion, the reviewed literature shows that financial technologies play a key role in improving efficiency, transparency and accountability in savings and investment clubs. Manual systems often cause delays, errors and data loss, which can be solved through automation. Web based management systems have proven effective in tracking savings, loans and reports accurately. Therefore, designing and implementing such a system for Capital Investment Club will improve financial management, promote transparency and strengthen members' trust

SECTION 3 RESEARCH METHODS

3.1 PROJECT METHODS

Research Design /Research Approach

This project adopts the Design Science Research(DSR) approach ,which focuses on building and evaluating IT artefacts that's solve identified organizational problems (Hevner et al.,2004, Peffers et al.,2007).In this approach, the research team aims to develop a web based system to address inefficiencies in financial management, investment tracking and member engagement within a capital Investment Club .DSR is particularly suited for this project because it emphasizes iterative design, stakeholder involvement and practical problem solving through technology.

The DSR process involves seven key stages:

Problem Identification and Motivation

Definition of objectives for a solution

Design and Develoment

Demonstration

Evaluation

Communication

Conclusion and Reflection

Each stage contributes to achieving the project objectives by guiding the team through structured analysis, design, implementation and validation. The following table illustrates how each DSR stage aligns with the projects goals, methods and expected outcomes:

Design Science Research Process Model

DSR	Research Objective Addressed	Proposed Methods	Expected Results
1. Problem Identification/ Motivation	To study and analyse the current system practices used by the club	Interviews ,observations, document reviews	Identification of the challenges in the current system
2. Definition of Objectives	To define clear, achievable objectives for the system	Group discussions, stakeholder meetings	User requirements
3.Design and Development	To design and develop a web based system	Use of design tools (UML), coding , prototyping	A working prototype system ⁴
4.Demonstration	To test the developed system with actual users	User testing	Feedback on system performance and usability
5.Evaluation	To assess if the system meets user needs	User acceptance testing , supervisor review	final improvements
6. Communication	To present the system	Project report, presentations	Completion of project documentation
7.Conclusion and Reflection	To reflect on lessons learned and future improvements	Presentation, supervisor feedback	Recommendations for scaling and future enhancements

3.2 Project Organization

This project is being undertaken for the Capital Investment Club, which is member based where members save money and can later access loans. The system will be used by club administrators (project owners) and all registered members (system users). The administrators will be responsible for managing member account, savings, loans and records while members will use the system to view their savings apply for loans and track their balances. The total population of the stakeholders is approximately 50 members including both administrator and general members.

3.2.1 Sampling Design / Sampling Technique

Given that the Capital Investment Club comprises of 50 active members; the project team will engage the entire group during the development of the system. However, for focused feedback and usability testing, a sample of 15 members will be selected to represent both executive committee members and general members. The sample size is determined in reference to Krejcie and Morgan(1970), which recommends a sample of 15 for populations of approximately 50 which is the simple sampling technique.

3.3 Source of Project Data

To effectively understand the operational challenges faced by the Capital Investment Club and to generate accurate system requirements the project team will collect both primary and secondary data. This mixed approach ensures a comprehensive understanding of the problem, its root cause and potential digital solutions.

Primary data will be obtained directly from the organization through interview with executive committee members, including the Chairperson, treasurer and secretary as well as selected general members through interviews and group discussions. We will also look into documents

such as contribution records ,loan forms ,meeting minutes , any other club records and other manuals the club uses. This will help us understand how the current system works and what challenges the club faces.

Secondary data will come from online articles , research papers and reports about SACCOs and investment clubs in Uganda. We will use this information to learn how other organizations manage their operations and what digital tools they use. This will help us design a system that fits the needs of the Capital Investment Club.

3.3.1 Requirement Elicitation [Data collection] Techniques

To design a system that will meet users needs of the capital investment club the project will carefully study how the club currently manages its current system. This will help us understand the problems and find the best ways to solve these problems.

Observation we will watch and understand the contribution, loans and meetings to understand the current system.

Interviews we will talk to the club leaders and members to hear their views and suggestions

Focus Group Discussions (FGDs) we will meet with a small group of members to discuss the challenges and idea of the new system.

Mind Mapping, we will use diagrams to organize ideas and show how different parts of the system will work.

Problem Tree Analysis we will draw charts to show the main problems, their causes and possible solutions.

3.4 System Analysis and Design Approaches

For this project, we will use the **Object-Oriented Design Approach**. This approach allows us to break down the system into smaller parts called objects, which represent real things like members, contributions, loans and meetings. Each object will have its own data and functions, making the system easier to understand, build and maintain. We chose this approach because it matches the way the Capital Investment Club works, where each activity or record can be treated as a separate unit.

We will also follow the Software Development Life Cycle(SDLC) as our development method. This method includes clear steps planning, analysis, design, development, testing and documentation. SDLC helps us stay organized and ensures that we complete each part of the project properly. It also allows us to review and improve the system at each stage, which is important for building a solution that meets the club's needs.

By using object oriented design and SDLC, we will be able to create a system that is well structured, easy to use and flexible for future updates. These approaches will help us achieve our project goals and solve the problems faced by the Capital Investment Club.

3.4.1 Requirements Elicitation [Data Collection] Techniques

to design a system that meets the needs of Capital investment club, the will study the current system. This will help us to understand the problems they face and acquire right information for a better system. The following techniques will be used;

observation: the club's records contributions, loans and meeting minutes will be reviewed in order to understand the current system and identify areas of improvement.

Interviews: Club administration and members will give their views about the challenges they face and their say about the new system.

Focus group discussion: A small group of members will be met to discuss about the challenges they face and their ideas on how the new system will function.

Mind mapping: we will design diagrams to organise ideas and show how different parts if the system should connect to each other.

3.4.2 Design Techniques

The following techniques will be used to plan how the system will work and provide guidance to the development of the systems user interface.

Use case diagrams: these will show how different users like members and administrators will interact with the system. These diagrams will help us understand what actions the system should support such as viewing contributions, apply for loans, member registration.

Entity Relationship Diagram: this is to design the database. These will show the connection of member details, contributions, loans.

Prototypes: to test how the system will look and work before final development. These early versions will help us get feedback from users and make improvements.

User journal maps: these help to understand the steps a member takes when using the system from logging in to viewing their financial records. The helps easy use of the system.

These design techniques will help build a clear organised, user friendly system that will meet the needs of Capital Investment Club.

3.5 Anticipated Project Constraints.

- i. The project may be constrained by limited access to detailed literature and organisational data specific to the investment club. The team plans to use online sources and stakeholder interview to gather relevant information for the system.
- ii. User resistance. There may be resistance from the users when introduced to the new system due to fear of change. The team will conduct user training to promote awareness and ensure that they are comfortable with the system before full implementation.

3.6 Project Development Process

The development of a web-based system will follow the Design Science Research (DSR) methodology. However, the team will also use a simplified Project lifecycle model to guide on the activities from initiation to completion.

Project Development Stages Diagram

stage	activities
Initiation	problem identification, proposal approval stakeholder engagement
Planning	Requirements elicitation, literature review
Design	UML modelling, wireframes, database
Development	HTML,JavaScript,PHP for back end MySQL for database
Testing	Unit testing, User testing, debugging
Deployment	User training, feedback collection
Closure	Presentation, Final report submission

3.7 Ethical considerations

The team will ensure the following to ensure ethical usage of the system;

Informed Consent: All members that will be interviewed will be briefed and provided consent.

Data Privacy: Members financial data will securely be handled and encrypted.

Transparency: All findings, designs, and decisions will be documented and shared to the stakeholders.

Academic: All sources will be cited using APA 7th edition, and plagiarism will be avoided through the use of grammarly and supervisor approved anti plagiarism tools.

3.8 Timeline & Milestones

Month 2025	Milestone
October	Proposal approval, stakeholders interview, literature review
Mid October	Requirements specification, UML diagrams
November	Systems development, database set up
Late November	Testing and validation, stakeholder feedback
December	Presentation, final report writing

Disclosure and declaration statement

The team intends to use AI tools like Grammarly to assist with grammar correction. These tools will be used under the supervisor's guidance.

There are no conflicts of interest relating to this project. The system is being developed for an independent Capital investment club.

APENDICIES

Resource Category	Item Description	Quantity	Unit Cost (UGX)	Total Cost (UGX)
Human Resources	Research Assistant (Data Collection & Analysis)			
	Developer (System Design & Coding in HTML/CSS/JS/PHP)			
Software & Tools	Web Development Tools (HTML/CSS/JS/PHP – Open Source)			
Hardware & Equipment	Smartphone for Testing(available)			
	Laptop (Already available)			
Internet & Hosting	Internet Data (3 months)	3	50000	50000
Communication & Logistics	Airtime for stakeholder calls		10000	10000
	Refreshments for Focus Group Discussions	Every weekends	20,000	200,000
Documentation	Printing & Binding of Final Report			
		Total Estimated Budget		260,000

Appendix II: Data Collection Tools

Interview Guide (Sample)

What are your current methods for tracking member contributions and investments?

What challenges do you face in managing financial records manually?

What features would you expect in a digital system to support club operations?

How do you currently share financial reports with members?

What level of access should members have to their financial data?

Questionnaire (Sample)

How frequently do you contribute to the club?

Do you feel confident in the accuracy of current financial records?

Would you prefer accessing your records via web application?

Rate your satisfaction with current investment tracking (1–5).

What web features would improve your experience as a member?

Appendix III: Schedule of Activities / Gantt Chart

Week 1–2: Proposal Approval & Literature Review

Week 3–4: Requirements Elicitation & Stakeholder Interviews

Week 5–6: System Design (UML, Wireframes, Database Schema)

Week 7–8: System Development (Coding & Integration)

Week 9: Testing & Validation

Week 10: Final Report Writing & Presentation Preparation

Week 11: Submission & Defense

Appendix IV: Relevant Company Documents

Constitution of the Capital Investment Club

Sample Contribution Ledger

Profit-Sharing Policy Document

Meeting Minutes (Selected Sessions)

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