
SCHOLARSHARE - EMPOWERING STUDENT FINANCIAL SOLUTIONS

A PREPRINT

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1 Introduction

1.1 Purpose

The purpose is to provide a comprehensive platform that combines loan management and fundraising functionalities. The platform aims to facilitate financial assistance by allowing users to request loans, receive donations and engage in fundraising campaigns.

1.2 Motivation

The motivation for creating this loan management and fundraising platform may include: Addressing the financial needs of individuals and fostering a supportive community. Promoting financial inclusion by providing a platform for fundraising. Enhancing user engagement and interaction through features like comments and messaging. Providing a transparent and secure environment for financial transactions. Empowering users to manage their financial activities and requests effectively.

1.3 Objective

The objectives include: Enable users to register and authenticate for secure interactions. Facilitate the creation of loan requests and fundraising campaigns. Support user engagement through donations and comments on loan posts. Ensure user communication with features like messaging. Record and track financial transactions related to loans, Donation. Provide users with the ability to update their profile information. Implement a credit balance check in the statistics section for financial overview..

2 Project Overview

Scholarshare is an exclusive project for United International University (UIU) students, providing a platform for peer-to-peer lending with specified loan durations. Students can also initiate campaigns for donations, engaging club members for financial support. The platform ensures secure transactions through a payment gateway and prioritizes security with required documentation. Restricted to UIU students, Scholarshare aims to address financial needs, promote community support, and enhance overall financial security within the university.

3 List of Features

The ScholarShare system contains the following features:

- **Registration:** Easy and secure user registration for students and organizations.
- **Customizable User Profiles:** Personalize your profile with images, bios.
- **Loan Posting & Campaign Creation:** Submit loan requests and create fundraising campaigns with ease.
- **Commenting:** Engage with the community by leaving comments and feedback.
- **Reporting:** Flag inappropriate content or behavior to ensure a safe and respectful environment.
- **Messaging:** Connect with other users, loan applicants, or campaign creators via the messaging system.
- **Transaction:** Track and manage financial transactions securely within the platform.
- **Credit Balance Tracking:** Monitor your credit balance and improve your financial health.

4 Project description

4.1 Diagrams

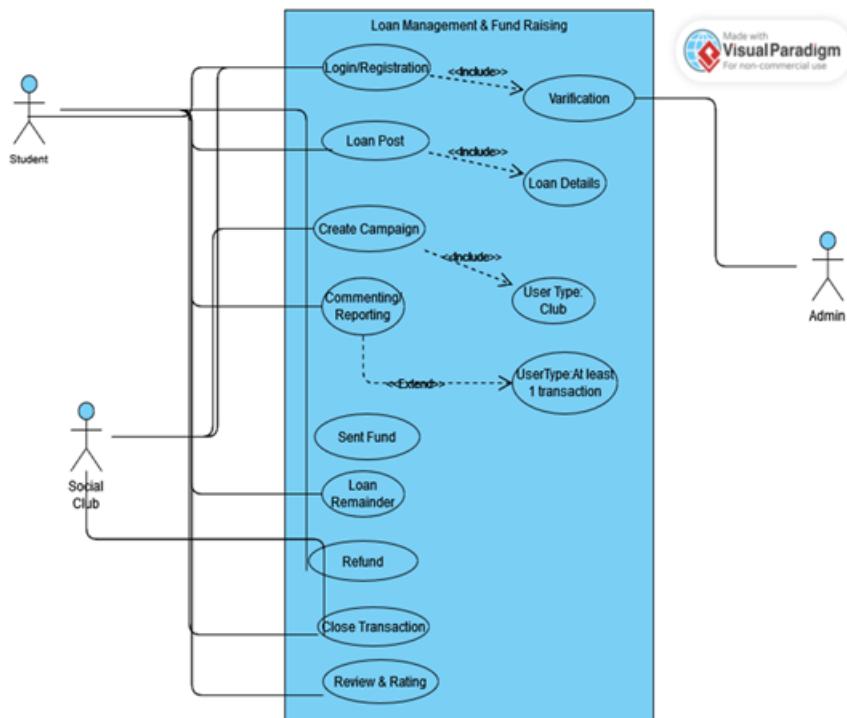


Figure 1: Usecase Diagram

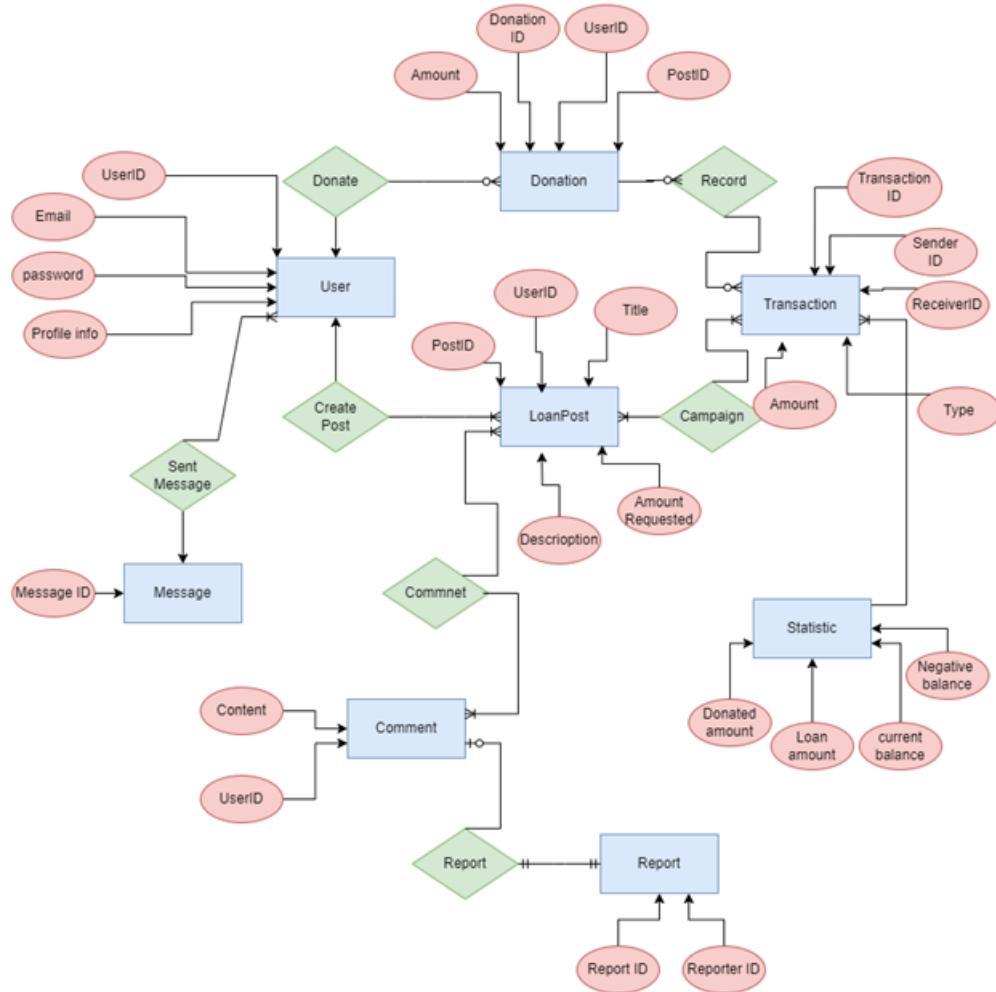


Figure 2: Entity Relationship Diagram

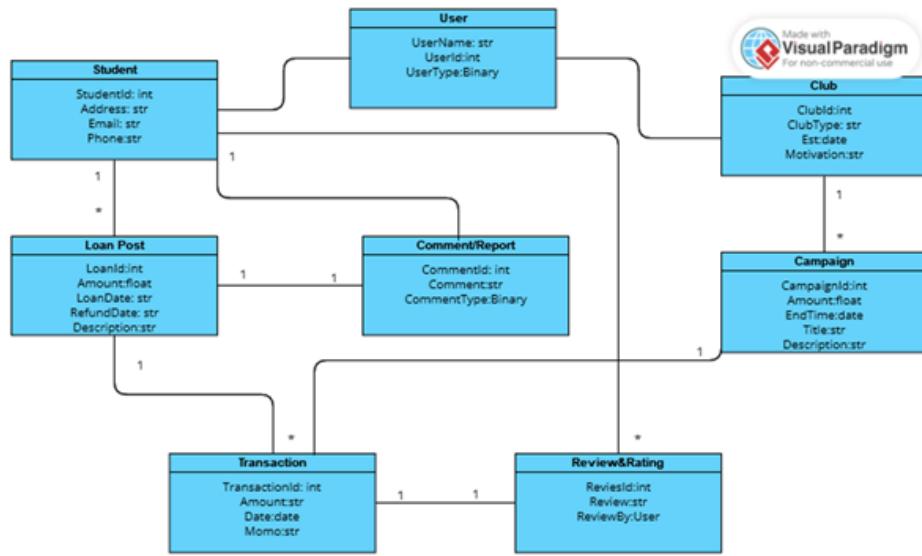


Figure 3: UML Class Diagram

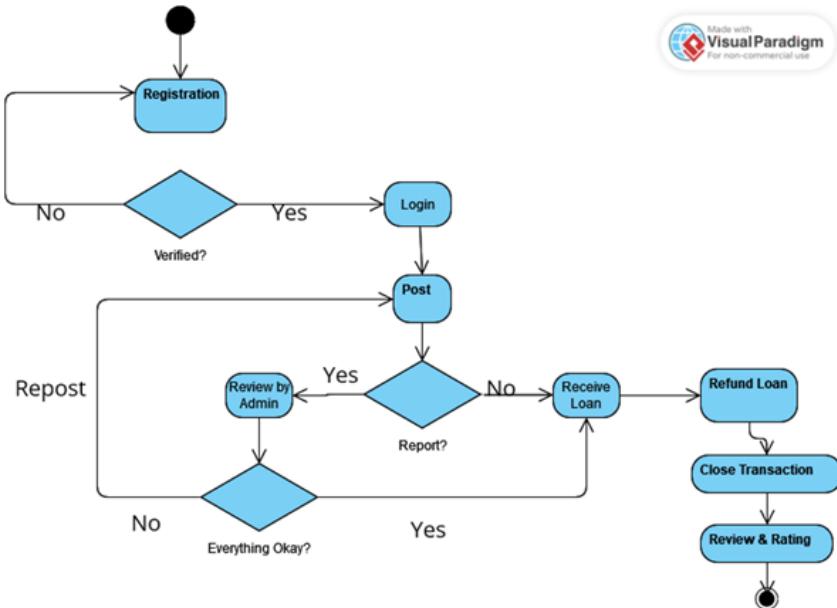


Figure 4: Activity Diagram

4.2 CRUD Operation

1. User Registration and Authentication:

- Create:** Users can register by providing necessary details (username, email, password).
- Read:** Verify user credentials during the authentication process.

- **Update:** Allow users to update their profile information.
- **Delete:** Provide an option for users to delete their accounts (consider privacy implications).

2. Loan Posting and Fundraising:

- **Create:** Users can create loan requests and fundraising campaigns.
- **Read:** Display existing loan posts and fundraising campaigns on the home page.
- **Update:** Allow users to update details of their loan posts or fundraising campaigns.
- **Delete:** Provide a mechanism for users to delete their loan posts or fundraising campaigns.

3. Commenting:

- **Create:** Users can create comments on specific loan posts.
- **Read:** Display comments associated with each loan post.
- **Update:** Allow users to edit or update their comments.
- **Delete:** Enable users to delete their comments.

4. Report Abuse Content:

- **Create:** Users can submit reports for content they find abusive.
- **Read:** Review submitted abuse reports.
- **Update:** Take necessary actions based on the report (warning, removal, etc.).
- **Delete:** Remove content deemed abusive.

5. Messaging:

- **Create:** Users can send messages to other users.
- **Read:** Display received messages in the inbox.
- **Update:** Allow users to mark messages as read/unread or delete them.
- **Delete:** Provide an option to delete messages.

6. Transaction Management:

- **Create:** Record transactions related to loans, distributions, repayments, and withdrawals.
- **Read:** Display transaction history for users.
- **Update:** Allow updates to transaction details if needed.
- **Delete:** Consider the implications; deletion might not be applicable for financial records.

7. Credit Balance Check (Statistic Section):

- **Create/Read:** Automatically update and display the user's credit balance.
- **Update:** Allow for adjustments to the credit balance in exceptional cases.
- **Delete:** Typically, not applicable for credit balance.

4.3 Documentation

We created our project documentation using MKDOCS, find the documentation [here](#).

4.4 Screenshots

The screenshot shows the homepage of ScholarShare. At the top, there's a navigation bar with links for Home, Sign Up, Log In, Contact Us, FAQs, and About. The main header features the text "Empowering Students, Fostering Futures" and a subtext "Forget about the old rules, we're here to help you." Below this is a blue button labeled "Join us today". To the right, there's a testimonial box with a user profile picture, a 5-star rating, and the date "23/02/2023 via Google". The testimonial text reads: "I love this website. Their working team is very active and they complete everything on time." Below the testimonial are three logos: a university crest, a colorful globe icon, and a stylized human figures icon. On the left side, there's a large image of three students sitting on steps outdoors, looking at a laptop together. To the right of this image is a section titled "Why You Should Join Us?" with four bullet points: "No cost to join" (with a dollar sign icon), "Get emergency loan" (with a hand holding a coin icon), "Earn extra by giving loan others" (with a person icon), and "Help people by donating" (with a handshake icon).

Figure 5: Welcoming Page

The screenshot shows the contact form page of ScholarShare. The top navigation bar is identical to the homepage. The main content area features the "Empowering Students, Fostering Futures" header and a "Trusted by" section with the same three logos. A modal window titled "Contact Form" is open, containing fields for "Your Name", "Your Email", and "Your Message". Below the message field is a "Send" button. To the right of the modal, there's a testimonial box with a star rating and the word "Google". The testimonial text is partially visible: "Today I have arrange in my whole short notice. They made the whole could be impossible for me to by myself which would be so amusing. I love their work. Read more". At the bottom of the page, there are social media icons for Facebook, Instagram, and LinkedIn.

Figure 6: Contact Us

The screenshot shows a user interface for a crowdfunding platform. At the top, there's a navigation bar with icons for profile, home, dashboard, messages, notifications, and user account. Below the navigation is a sidebar with a user icon and a dropdown menu containing links to 'About', 'Terms of use', 'Edit Profile', 'Log out', and 'Delete Profile'. The main content area features a post from a user named '@You' with a graduation cap icon. The post text reads: 'Hi everyone, My name is Mirza and I'm a final year student at UIU studying CSE. I'm reaching out to the community for help in making my dream of a college education a reality.' Below the text is a photograph of three young men sitting at a table, looking at a tablet together. The post was 'Posted 16 minutes ago' and has a target 'Amount required: 1000000'. Another post by '@UIU4343 -Club' follows, featuring a group of performers in black tops and pink pants on stage, with the caption: 'Our club celebrates diversity and enriches campus life through cultural events, performances, and exhibitions. Your donations will ensure we can continue showcasing the vibrant tapestry of our community.' This post was 'Posted 20 minutes ago' and has a target 'Amount required: 40000'.

Figure 7: Home View



@you

EDIT

Hi everyone, My name is Mirza and I'm a final year student at UIU studying CSE. I'm reaching out to the community for help in making my dream of a college education a reality.

Amount required: 35000.0

Amount received: 1000

Mahadi6789
All the best brother!!

@UIU4343

REPORT

Our club celebrates diversity and enriches campus life through cultural events, performances, and exhibitions. Your donations will ensure we can continue showcasing the vibrant tapestry of our community.

Amount required: 40000.0

Amount received: 0.0

[Donate](#)

Figure 8: Posting

The image displays two separate screenshots of a Django-based web application interface, likely a social media platform or a crowdfunding site.

Screenshot 1 (Top): Individual Profile

- User Handle:** @Mirza7200
- Type:** Individual
- Bio:** Welcome to my profile! I'm a passionate individual with diverse interests and talents. Join me on my journey and let's explore the world together.
- Post Count:** 1 loan posts created
- Buttons:** Current Post (highlighted), Archive Post
- Description:** Hi everyone, My name is Mirza and I'm a final year student at UIU studying CSE. I'm reaching out to the community for help in making my dream of a college education a reality.
- Image:** A photograph of three young men looking at a screen together.

Screenshot 2 (Bottom): Club Profile

- User Handle:** @UIU4343
- Type:** Club
- Bio:** UIU Computer Club, one of the predominant club of United International University.
- Post Count:** 2 donation posts created
- Buttons:** Current Post (highlighted), Archive Post
- Description:** Our club celebrates diversity and enriches campus life through cultural events, performances, and exhibitions. Your donations will ensure we can continue showcasing the vibrant tapestry of our community.
- Image:** A photograph of a group of women performing a synchronized dance routine on stage.

Figure 9: Individual Profile

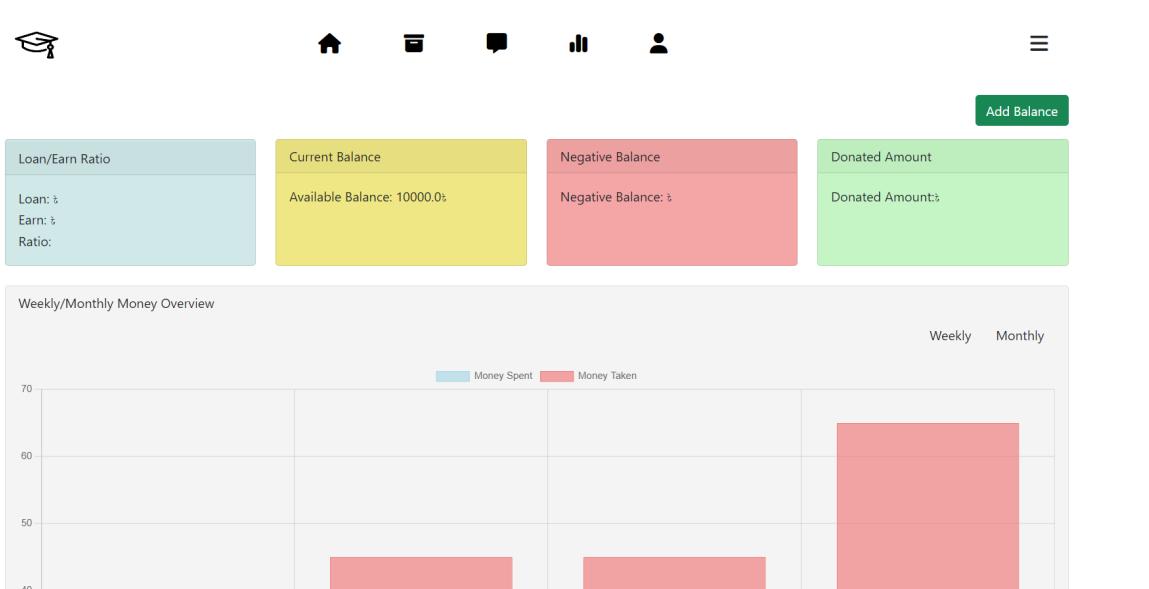


Figure 10: User Statistics

Frequently Asked Questions

- What is the main purpose of this student-centric web application? ⊖**
- The main purpose of our web application is to address the financial needs of students by providing a comprehensive platform that combines loan requests, fundraising capabilities, and financial education resources. Additionally, we aim to foster a sense of community and financial responsibility among students.
-
- How can students benefit from this web application? ⊕**
- Is the financial education provided tailored to specific student needs? ⊕**
- How does the fundraising feature work on the platform? ⊕**
- Are there any eligibility criteria for students to request loans through the platform? ⊕**

Figure 11: FAQs

Welcome to Our Student-Centric Hub-ScholarShare!

Embark on a transformative journey with our student-centric web application, where financial empowerment meets community support. Our mission is to provide a dynamic platform that goes beyond traditional financial aid, seamlessly integrating loan requests, fundraising capabilities, and robust financial education resources. By fostering a sense of community, we aim to empower students to navigate the financial challenges of education with confidence. Whether you're seeking financial assistance, initiating a fundraising campaign, or enhancing your financial literacy, our comprehensive and user-friendly platform is dedicated to supporting you on your educational path. Join us in building a community where financial responsibility and student success converge.

Empowering Dreams, Connecting Futures

At the heart of our project lies a commitment to empower students in their pursuit of educational goals. By combining practical financial solutions with a vibrant community space, we strive to create an environment where students can not only access the financial support they need but also engage in meaningful connections with peers, alumni, and supporters. Our web application is more than just a tool for financial assistance; it's a dynamic ecosystem that encourages responsible financial decisions and cultivates a supportive network. Together, let's shape a future where students can thrive academically, financially, and socially. Welcome to a community that cares about your success!

Our Team



Mirza Abbas Uddin

FULL STACK DEVELOPER

Mirza is our Full Stack Developer extraordinaire, weaving his coding magic on both the front and back ends of our web application.



Sanjana Hossain Sonali

FRONTEND DEVELOPER

Meet Sanjana, our Frontend Maestro, who turns design concepts into captivating user interfaces.



Hasibul Hasan Shanto

BACKEND DEVELOPER

As our Backend Sorcerer, Hasibul is the architect behind the scenes, building the foundation that makes our web application function seamlessly.



Mahadi Hasan Shanto

FRONTEND DEVELOPER

Mahadi, our UI/UX Enchantress, is on a mission to create an enchanting and intuitive user experience.



Sagar Sutra Dhar

FRONTEND DEVELOPER

With a holistic approach to programming, Sagar crafts elegant solutions that balance functionality and aesthetics.

Figure 12: About Us

5 Possible Future Upgrades

Several potential future upgrades for the Scholarshare project could enhance its functionality, user experience, and overall effectiveness. Here are some possible upgrades.

1. **Mobile App Development:** Create a dedicated mobile app for a more accessible user experience.
2. **Enhanced Security Features:** Implement two-factor authentication and encrypted communication for increased platform security.
3. **Credit Scoring System:** Introduce a credit scoring mechanism for better borrower evaluation.
4. **Expanded Payment Options:** Include more payment methods like digital wallets for user convenience.
5. **Automated Repayment Reminders:** Set up automated reminders to ensure timely loan repayments.
6. **Transparent Impact Reporting:** Provide clear reporting on crowdfunding campaign outcomes to build user trust.
7. **User Feedback System:** Integrate a feedback mechanism for user input and continuous improvement.
8. **Integration with UIU Systems:** Streamline user authentication by integrating with other UIU systems.

These upgrades can enhance the functionality and user experience of Scholarshare, meeting the evolving needs of UIU students.

6 Conclusion

In closing, Scholarshare, exclusive to UIU students, facilitates peer-to-peer lending and crowdfunding. Upgrades like a mobile app, enhanced security, and seamless integration with UIU systems promise to create a more accessible and secure user experience. Additional features, including credit scoring and diverse payment options, contribute to the platform's effectiveness in meeting the financial needs of UIU students, fostering a sense of community support and financial security.