FundFlow (CrowdFunding Platform)

Pratice School Progress report submitted

To

MANIPAL ACADEMY OF HIGHER EDUCATION, MANIPAL

For Partial Fulfilment Of The Requirements for the

Award of the Degree

of

Master of Computer Applications

by

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Under the guidance of

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DEPARTMENT OF DATA SCIENCE AND COMPUTER APPLICATIONS

MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

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Table of Contents

List of Figures / Screenshots

Fig 1	Sequence Diagram
Fig 2	Login Page
Fig 3	Home Page
Fig 4	Start Fundaiser Page
Fig 5	Donate Page

1. Introduction

FundFlow is a crowdfunding platform designed to help individuals in need of financial assistance for medical emergencies, educational expenses, Animal shelters and other critical situations. It is a crowdfunding website that bridges the gap between those in need and those who wish to help. Users can create campaigns, and receive contributions. The platform ensures security, transparency, and ease of use. Users who wish to donate can also contribute to campaigns securely , FundFlow ensures that everyone can access or provide help effortlessly.

2. Problem Definition

Crowdfunding is a vital financial support method for many individuals who are in urgent need of help, be it for medical emergencies, education, animal welfare, or relief efforts. However, there is a lack of dedicated platforms that are trustworthy, user-friendly, and secure for managing such fundraising activities. The absence of organized systems often leaves genuine individuals without a proper channel to raise funds, and donors unsure about the legitimacy of the campaigns. FundFlow is designed to address these gaps by providing a transparent and structured platform that connects those in need with potential donors.

2.1.Challenges

- Ensuring trust and authenticity in campaigns.

- Secure transaction processing.

- User-friendly interface for seamless navigation.

- Providing an efficient search and filtering system.

- Ensuring effective user engagement through feedback mechanisms.

- Lack of trust in existing fundraising platforms.

- Difficulty in reaching a wide audience for financial support.

- No proper tracking system for donations and funds.

- Traditional fundraising involves delays and manual effort.

- Donors are skeptical about how and where the money is used.

- Beneficiaries often lack the technical know-how to set up campaigns.

- Limited features in free platforms for managing donations and feedback.

- No unified dashboard to view campaign performance or manage personal details.

2.2 Project Scope

FundFlow aims to simplify the fundraising process through a secure and intuitive web-based solution that empowers users to raise and donate funds for causes such as medical emergencies, education, animal welfare, and relief efforts. The scope of the project includes:

- Launching campaigns under multiple predefined categories.

- Allowing users to create fundraising campaigns using a step-by-step multi-form.

- Enabling donors to browse campaigns using filters and search functionality.

- Allowing users to register, log in, and manage their profiles.

- Providing each user with a personalized dashboard to track donations, campaigns

- Collecting funds into the organization's bank account before transferring them to the beneficiary's account at the end of the campaign.

- Ensuring secure data handling and transaction management.

- Allowing users to give feedback and suggestions through a dedicated feedback module.

2.3 Project Perspective

This project serves as a platform for social impact, helping communities by allowing individuals to raise funds from the public and track campaign progress. It incorporates a user dashboard, campaign tracker, and feedback module to ensure continuous engagement. FundFlow is designed to bridge the gap between donors and those in need by offering a transparent, secure, and reliable system for fundraising. The platform not only supports the immediate goal of raising funds but also promotes trust and accountability through proper verification and fund management. By providing features like real-time updates, profile management, and category-based campaigns, FundFlow aims to create a user-centric experience that encourages more participation and generosity from the public.

2.4 Project Functionality

2.4.1 Login Module:

o **Description**: Allows users to log in securely to access the platform, manage campaigns, and donate.

o **Key Features**:

- Login with mobile number/email and password.

2.4.2 Campaign Module (View/Donate):

o **Description**: Users can view available fundraising campaigns and donate to them.

o **Key Features**:

- View campaigns by category (Health, Education, etc.).

- Browse campaigns with descriptions, goals, and donation progress.

2.4.3 Create Campaign Module:

o **Description**: Allows users to create new fundraising campaigns for causes.

o **Key Features**:

- Forms to input campaign title, description, and fundraising goal.

- Option to upload supporting documents (e.g., medical reports).

2.4.4 User Profile Module:

o **Description**: Users can view and manage their profiles, see their donation history

o **Key Features**:

- View personal details and update information.

- View donation history and impact.

2.4.5 Feedback Module:

Description: Allows users to provide feedback about their experience with the platform.

Key Features:

- Submit feedback about platform usability, donation process, and overall experience

2.5 Software Requirements

- Frontend: HTML, CSS, React.js

- Backend: Node.js,Express.js

- Database: MySQL for structured data storage

2.6 Hardware Requirements

- PC/Laptop with 8GB RAM or more

- Latest version of Chrome or Firefox

- Stable internet connection

3. Objective

The main objective of FundFlow is to create a secure, user-friendly, and transparent crowdfunding platform where individuals can create, manage, and contribute to fundraising campaigns effortlessly. The platform aims to bridge the gap between donors and beneficiaries by ensuring seamless fund transactions, transparency, and accessibility.

Key Objectives:

- Simplified Fundraising Process: Provide an easy-to-use interface for individuals to start and manage fundraising campaigns for various causes such as medical emergencies, education, animal welfare, and disaster relief.

- Secure Transactions: Ensure that all donations and fund transfers are safe, encrypted, and properly managed to maintain donor trust.

- User Profile & Dashboard: Enable users to manage personal details, track their donation history, and monitor campaign performance.

- Engaging Donor Experience: Allow donors to browse and search for campaigns based on categories, apply filters, and donate seamlessly.

- Feedback System: Implement a feedback module where users can share their experiences, suggest improvements, and help enhance the platform.

- Efficient Fund Distribution: Ensure that at the end of the campaign, the collected funds are transferred to the beneficiary's bank account, ensuring fair and legitimate fund distribution.

- Scalability & Future Growth: Develop a system that can accommodate a growing number of users, campaigns, and donations efficiently over time.

4. Methodology

4.1 Application Development

The frontend will be developed using React.js, providing a dynamic and responsive user experience. React.js will allow for reusable components, ensuring efficient UI management. The backend will be built with Node.js and Express.js, ensuring a scalable and efficient server-side architecture.

Key aspects of application development:

- **Frontend (React.js)**

  o Responsive and interactive UI components.

  o Search and filter functionalities for campaigns.

  o User authentication and authorization.

  o Real-time updates for campaign progress.

- **Backend (Node.js & Express.js)**

  o API development for handling user requests.

  o Secure authentication using JWT or OAuth.

  o Business logic for campaign creation, donations, and fund transfers.

  o Middleware for error handling and logging.

4.2 Database Management

A MySQL database will be used to securely store and manage user data, campaign details, donation transactions, and feedback. The database will be designed to optimize performance and ensure data integrity.

Key aspects of database management:

- **Tables and relationships:**

    o Users Table (stores user information and authentication details).

    o Campaigns Table (stores campaign details, goals, and progress).

    o Donations Table (stores donor details and transaction records).

    o Feedback Table (stores user feedback for platform improvement).

    o Update Table(stores user update)

4.3 Testing and Deployment

Before deployment, FundFlow will undergo multiple levels of testing to ensure stability, security, and usability.

Testing Phases:

- Unit Testing: Testing individual components and API endpoints.

- Integration Testing: Ensuring seamless interaction between frontend and backend.

- Security Testing: Identifying vulnerabilities and securing transactions.

- User Acceptance Testing (UAT): Conducted with real users to refine UI/UX.

4.4 Sequence Diagram

A sequence diagram will illustrate the process of creating a campaign and interacting with donors.
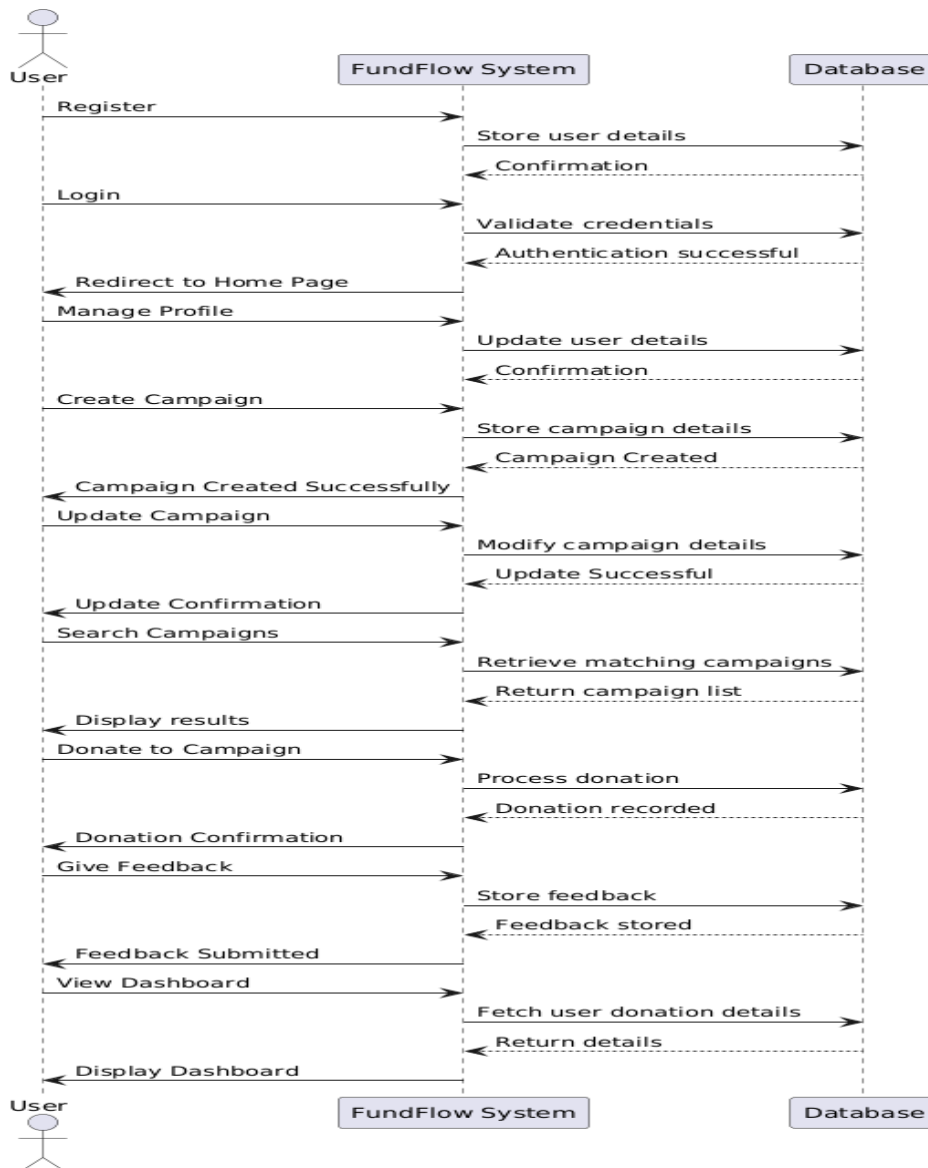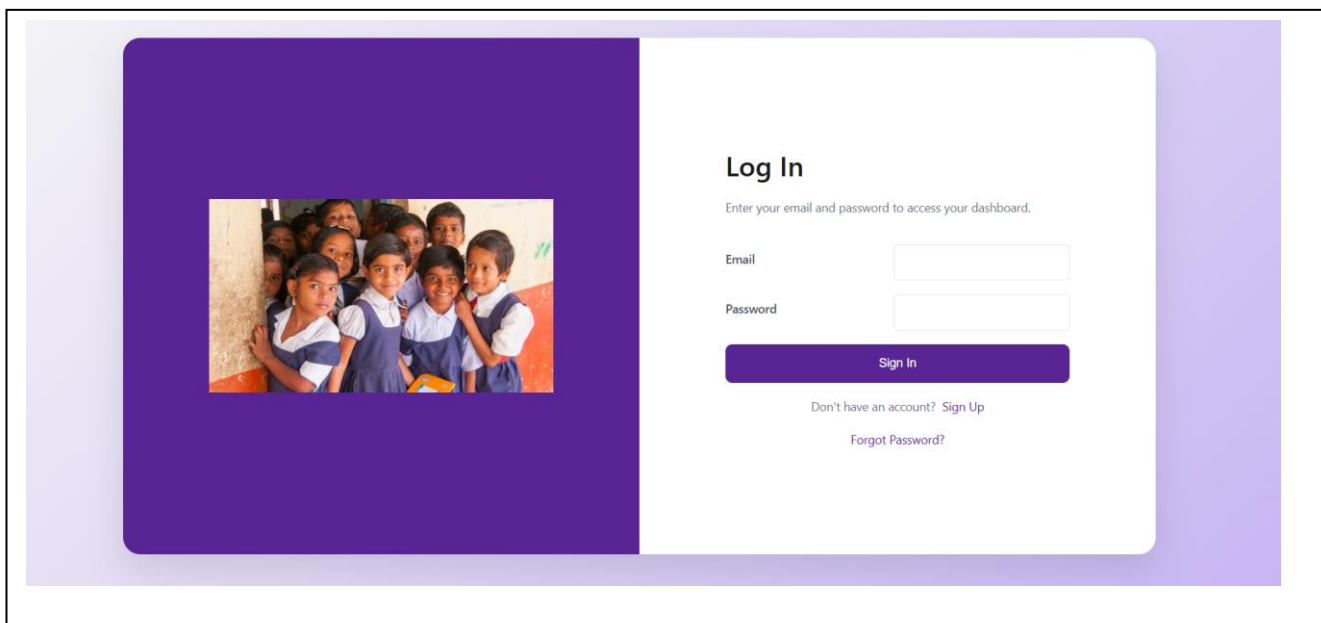
Fig 1:Sequence diagram

5. Work Done So Far

- Created all front-end pages.

- User registration and login functionality is implemented.

- After login, users are directed to the home page.

- Profile option is available where users can fill in their personal details and manage there profile

- Campaign creation functionality is implemented with multiple input fields.
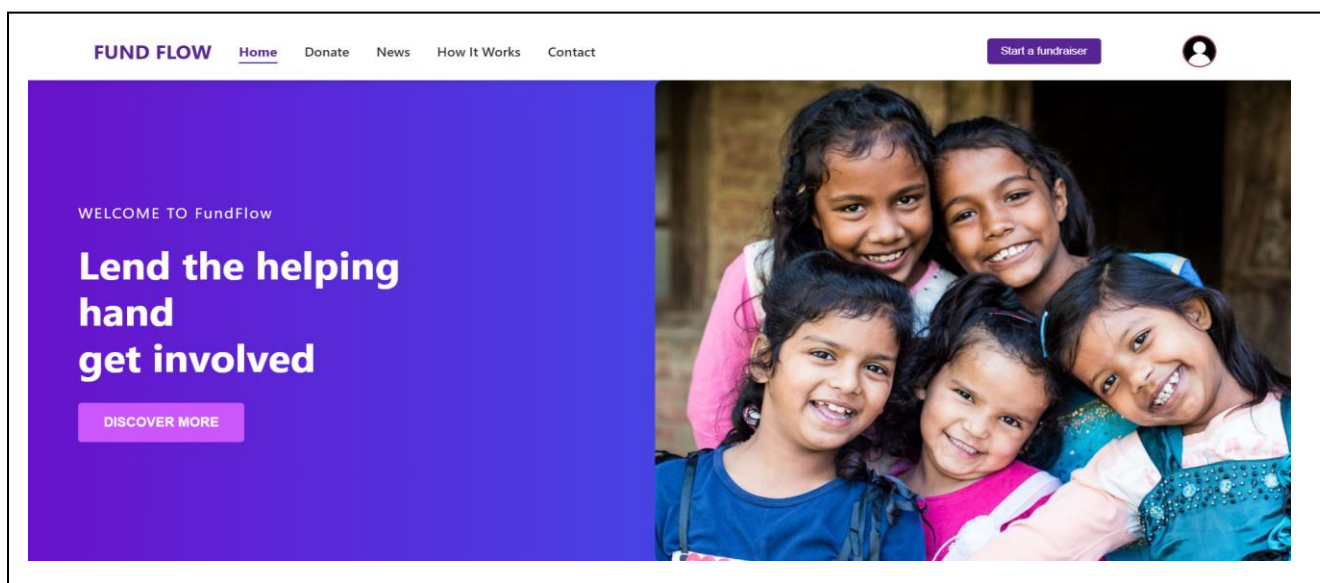
- A news page displaying updates related to the platform has been developed.

- About Us, Teams, Contact, and Career pages have been completed.

- Feedback functionality is integrated to allow users to provide suggestions.

- Search functionality is implemented to help users find campaigns easily.

5.1 Screenshots

Fig 2: Login page

Fig 3: Home page

Fig 4: Start fundaiser

Fig 5: Donate page

6. Future Work

- Implementing AI-based campaign verification.

- Mobile app development.

- Additional security measures.

- Enhanced recommendation system for campaign discovery.

7. Conclusion

FundFlow is a reliable fundraising platform that connects those in need with potential donors. With a secure and transparent system, it ensures that funds reach the right people at the right time. Additional features like search, user profiles, and feedback mechanisms enhance user engagement and platform usability.

Furthermore, FundFlow aims to build trust between donors and recipients by implementing secure transactions. The intuitive user interface and robust backend infrastructure ensure a seamless experience for all users. As the platform continues to evolve, future enhancements will further improve usability, security, and reach, making FundFlow a comprehensive solution for online crowdfunding.

8. References

- **MySQL**-https://dev.mysql.com/doc/
- **React.js**- https://react.dev/learn
- **Node.js**- https://nodejs.org/en/docs
- **Express.js**-https://expressjs.com/en/starter/installing.html

OFFER LETTER

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02-01-2025

Subject: Letter of Internship

Dear Dhruthi Y Sanil,

Welcome to the **TEAM ABHIMO.**

With reference to your Application and Subsequent Interviews, you have had with **Abhimo Technologies Private Limited.** We are pleased to appoint you as **"Software Engineer – Intern".** Your Internship will be governed by the following terms and conditions:

1. Working Hours

In Abhimo Normal working days are from Monday to Saturday. You will be required to work for Minimum Six hours from Monday to Saturday as necessary for the proper discharge of your duties to the Company. **The Duration of the Internship will be 4 Months from the date of Appointment.** You are expected to work not less than Forty two hours each week, and if necessary, for additional hours depending on business needs. You also need to work on **Shift basis** depending upon Client Requirement.

2. Date of Appointment

Your date of appointment as per Firm records is 02nd Jan 2025.

3. Leave

You are entitled to casual leave of 12 days excluding Twelve days of national holiday. Company will notify a list of Declared National Holidays in the beginning of each year

4. Notice Period

This appointment can be terminated by either side, by giving **1-month** Notice. Upon your Resignation Company will have the option to accept your resignation either with immediate effect, The Company Reserves the right to terminate your Internship without assigning any reasons in particular, summarily without any notice period or termination payment, if it has reasonable ground to believe you are guilty of misconduct or negligence, or have committed any fundamental breach of contract or caused any loss to the firm. In case if you are unable to server the Notice period you need to pay the equivalent sum of amount to company.

5. Transfer

You will be liable to be transferred to any other department or establishment or branch, Sister Concern, Client place or subsidiary Units. In such a case, you will be governed by the terms and conditions of service as applicable to the new assignment.

1 | **Private and Confidential**

F-07, D.No 2-11/26(27), "Green City", Behind Naganakatte
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Web:www.abhimo.com

6. Confidentiality Clause

You will not, at any time, without the consent of the Firm disclose or divulge or make public except under legal obligation, any information regarding Firm's affairs of administration or research carried out, whether the same may be confided to you or become known to you, in the course of your service or otherwise.

7. On termination

On termination of this contract, you will immediately handover to the Assigned Person like specifications, formulae, books, documents, market data, cost data, literature, drawings, Laptops, Mobile Phones, SIM Card, ID Card or any other belonging of the Company or relating to its business and shall not make or retain any copies of these items.

8. Positive Relationship

Its Mandatory to follow professional Relationship with other Staffs, seniors in Company and take their Instructions in a Positive way.

9. Others Points

Upon Internship you will Not take up any Internship from Abhimo Competitors, Clients or any Direct Vendors who is having Similar Business for the Period of One Year from date of Relieving, you will also support Abhimo by working on Shifts whenever there is absolutely needed and requested. You will not Talk anything negative about the employer/company or Customer with any one, I case of any grievances or complaints you will reach out to employer for sorting the issues. You will Not write any negative review about company in social media or any platform which may damage the company reputation. If we found such activity company may go for legal action for such behavior.

We welcome you to Join **"TEAM ABHIMO"** and trust we will have a long, Fruitful and mutually beneficial association.

With Best Wishes

Naveen Nayak
(Founder and Managing Director)

Sign of Intern
Address : 3/71 Poojaril, Near Narayana Guru
sangha, Kulai, Surathkal, Mangalore - 575 019

2

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Project Details

Student Details			
Student Name	Dhruthi Y Sanil		
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Project Details			
Project Title	FundFlow (CrowdFunding)		
Project Duration	4 months	Start Date	02-01-2025

Organization Details	
Organization Name	Abhimo Technologies
Full postal address with pin code	F07, D.No. 2-11/26(27), "Green City", Behind Naganakatte, N.H.66, Thokottu, Mangaluru - 575017, Karnataka, India
Website address	https://abhimo.com/

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Designation	Founder and Managing Director		
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*** Thank you ***