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

MCA 5291 PROJECT WORK & PRACTICE SCHOOL

FUNDFLOW(CROWDFUNDING)

Biweekly Report

Submitted by

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Project Details

Sl. No	Date	Project Activity	Description	Comments
1	January 2 – January 15, 2025	Training	**Introduction& Orientation**	• **Introduction & Orientation:** Launched the initiative with a comprehensive training period that combined theoretical learning with practical exercises. An introduction to company work ethics was provided, emphasizing a culture of quality, continuous improvement, and collaborative problem-solving. • **Foundations in Web Technologies:** Covered core topics in React, Express, and MySQL. Early hands-on coding exercises were integrated from day one, reinforcing concepts such as JSX syntax, component lifecycle, and basic query formulation. • **Distributed Learning Approach:** Training was structured to spread different technology focuses over successive weeks, ensuring a balanced and in-depth understanding of each domain.

2	January 16 – January 29, 2025	Training	**Advanced Training and Workshops**	• **React Advance Concepts:** Expanded into advanced topics including React hooks (useState, useEffect), Context API for state management, and component optimization. • **Express & Backend Deep Dive:** Covered more sophisticated Express concepts such as middleware chaining, routing nuances, and implementing JWT for secure access. Backend training was bolstered by practical sessions using Postman to test and validate API endpoints. • **Database Design Principles:** Interactive sessions on relational database design were conducted. Topics included normalization, entity-relationship modeling, indexing strategies, and best practices in query optimization.
3	January 30 – February 12, 2025	Training	**Practical Application and Prototyping Exercises**	• **Hands-On Coding Sessions:** Transitioned from theory to practice with live coding sessions that simulated real-world challenges, integrating the various technologies learned. • **Rapid Prototyping:** Adopted an iterative approach to prototyping, experimenting with user interface layouts and backend interactions. • **Database Workshops:** Initiated preliminary design of database schemas, drafting entity relationship diagrams, and discussing strategies to support dynamic data flows.

4	February 13 – February 19, 2025	Training	**Project Assignment & Requirements Definition**	• **Project Introduction** Introduced the FundFlow crowdfunding website prototype with a clear high-level vision. The briefing highlighted the objectives of creating a seamless and transparent fundraising platform to facilitate donations and fund distribution efficiently. • **Requirements Gathering & Strategic Planning:** Defined key functionalities, including pre-planned features such as secure payment integration, campaign management, and real-time fund tracking. The session focused on outlining core modules, initial database structures, and a cohesive approach for simultaneous frontend and backend development • **Website Design Work:** Started designing the website layout, focusing on a clean and user-friendly interface. • **UI/UX Planning:** Created basic wireframes and mockups to outline the structure and user experience. • **Visual Elements**: Choose colors,fonts, and design styles to ensure a consistent look

5	February 20 – March 5, 2025	Training	**Database Preparation & Structuring**	• **Navigation & Interactions:** Planned how users will move through the site and interact with different features.
				
				• **Finalized Database Design**: Created necessary tables and relationships in MySQL for:
				  o **Users Table** – Stores user details, authentication credentials, and profile information.
				  o **Campaigns Table** – Contains fundraising campaign details, goals, and status.
				  o **Donations Table** – Tracks donation transactions, donor details, and timestamp.
				  o **Update Table:** User can gave update on there campaigns story

te	March 6 – March 19, 2025	Training	**Frontend Development**	**Frontend Development & UI Implementation (React.js)**
				• **Developed All Web Pages Using React.js**:
				  o Homepage
				  o Campaign Creation Page
				  o Donation Page
				  o User Profile Page
				  o Dashboard for Campaign Creators
				  o Teams
				  o About Us
				  o Contact Us
				  o Feedback

7	March 20 – April 2, 2025	Training	**API Integrating**	• **Component-Based Architecture**: Ensured reusable components for forms, buttons, modals, and tables.
				• **Integrated APIs with Frontend**: Connected React frontend with backend APIs for campaign management and user authentication.
				• **Styling & Responsive Design**: Used CSS and React Bootstrap for a user-friendly and mobile-responsive UI.
				• **Testing & Debugging:**
				  o Initial responsiveness testing across devices.
				  o Minor UI bugs identified and fixed.
				• **Code Optimization**: Removed unused code, modularized components, and followed best practices to enhance performance and maintainability.

Signature of Student	Signature of External Guide