# Crowd Funding Website Using MEAN Stack

# **Project Guidelines**

# Team Members:

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#### 1. Introduction

#### **Purpose**

The objective of this project is to design and develop a functional crowdfunding website using the MEAN stack. This project will allow students to learn full-stack web development and understand the functionality behind modern crowdfunding platforms.

#### **Background**

Crowdfunding platforms connect project creators with potential backers, facilitating funding for innovative ideas and community-driven projects. Examples include Kickstarter and GoFundMe. The MEAN stack is an efficient framework for building web applications with consistent JavaScript language usage on both client and server sides.

#### Scope

The project will cover:

- User registration and authentication.
- Campaign creation and management by users.
- Donation functionality for backers.
- Real-time campaign updates and analytics.
- Responsive design and user experience.

#### 2. Problem Statement

The project addresses the challenge of developing a platform that simplifies fundraising by connecting project creators and backers through an intuitive interface.

#### **Importance**

Solving this problem equips students with practical experience in developing robust, scalable web applications and understanding how to meet user needs in online platforms.

# 3. Objectives

- 1. Build a user-friendly interface for creating and managing crowdfunding campaigns.
- 2. Develop secure authentication and authorization using the MEAN stack.
- 3. Implement real-time updates for campaign progress using WebSocket or RESTful APIs.
- 4. Create a responsive design compatible with various devices.
- 5. Ensure scalability and maintainability of the codebase.

# 4. Methodology

#### Steps to Execute the Project

- 1. Data Collection (if applicable):
  - Research existing crowdfunding platforms to identify key features.
  - Gather requirements from users or stakeholders through surveys or interviews.

#### 2. Tools/Technologies to Be Used:

- MongoDB for database management.
- Express.js for back-end development.
- Angular for front-end development.
- Node.js as the runtime environment.

#### 3. Experimentation/Implementation Process:

- (a) Phase 1: Setting up the development environment and creating the project architecture.
- (b) Phase 2: Implementing user authentication (login/signup).
- (c) Phase 3: Developing features for creating and managing campaigns.
- (d) Phase 4: Adding payment gateway integration for donations.
- (e) Phase 5: Testing and debugging the website for seamless user experience.
- (f) Phase 6: Deploying the website on a hosting platform like Heroku or AWS.

# 5. Project Plan

#### **Timeline**

Phase	Timeline	Tasks
Phase 1	Week 1	Environment setup and project planning.
Phase 2	Weeks $2-3$	Implement authentication.
Phase 3	Weeks $4-5$	Develop campaign management features.
Phase 4	Week 6	Integrate payment gateway.
Phase 5	Week 7	Testing and debugging.
Phase 6	Week 8	Deployment and documentation.

#### **Milestones**

- User authentication module completed.
- Campaign management module completed.
- Fully functional crowdfunding website ready for deployment.

## 6. Expected Deliverables

- Functional crowdfunding website.
- Source code (uploaded to GitHub or similar repository).
- A detailed project report covering objectives, methodology, and results.
- A presentation highlighting key features and development process.

## 7. Evaluation Criteria

Criterion	Weightage
Quality of literature survey	10%
Implementation of features	40%
Testing and debugging efforts	20%
Report quality	20%
Presentation skills	10%

### 8. Submission Guidelines

• Format:

- Report: PDF.

- Presentation: PowerPoint.

• Deadline: Yet to be decided.

• Mode: Submission via email.

# 9. References

1. Official MEAN Stack Documentation:

• MongoDB: https://www.mongodb.com/docs/

• Express.js: https://expressjs.com/

• Angular: https://angular.io/docs

• Node.js: https://nodejs.org/en/docs

2. Tutorials on MEAN Stack:

• https://www.tutorialspoint.com/meanjs/index.htm