Bangabandhu Sheikh Mujibur Rahman Science and Technology

University

Gopalganj-8100



## **Project Proposal**

Project Title: **Crowd Funding Application**

Course No: CSE378

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| **Submitted By** | **Submitted To** |
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Submission date :15/12/24

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**Certificate of Project Proposal Approval**

**Project Title:** Design and Development of a Crowdfunding Application

This is to certify that the project proposal title "Design and Development of a Crowdfunding Application" has been reviewed and approved for implementation.

I hereby recommend that the project proposal, prepared by **Md. Al-Amin Hossain**, in partial fulfillment of the requirements for the B.Sc. Engineering degree, be accepted by the Department of Computer Science and Engineering, Bangabandhu Sheikh Mujibur Rahman Science and Technology University.

**Supervisor's Approval**

**…………………………………..**  
**Dr. Mrinal Kanti Baowaly**  
Associate Professor,  
Department of Computer Science & Engineering,  
BSMRSTU, Gopalganj-8100

**Project Title:Crowd Funding Application**

##### **Project Theme**

A crowdfunding website is a platform where people can raise money for different projects, ideas, or causes by inviting others to contribute financially. These projects can include personal needs (like medical expenses), creative ideas (like making a film or app), and startups (like launching a new product).

# Layout Structure

1. Navbar**:** The navbar will contain the

* Website name/logo,
* Home,
* All Campaign,
* Add New Campaign**(It will be a private/protected route)**,
* My Campaign**(It will be a private/protected route)**,
* My Donations**(It will be a private/protected route)**,
* “Log in”, and “Register” **(Conditional)** 
  + - The “Login” and “Register” buttons is conditional, if the user is not logged in it will show the “Login” and “Register” Button. If a user clicks on “Login” it will redirect to the login page. If a user clicks on “Register” it will redirect to the Register page.
    - If the user is logged in here I will show the user photoURL, when I hover over the image it will show the displayName. And it will show the “Log out” button.

1. Main Section**:**  Main Section will show different pages based on routes.
2. Footer**:** A Footer with all relevant information and eye-catching design.

##### **Home Page:**

1. Home Page**:** Besides the navbar and footer the **Home Page** will contain a banner/Slider, a Running Campaign Section, 2 Extra Sections,

🎯 **It should be sure to keep the navbar and footer on all the pages except the 404 page.**

1. Banner**:** Add a slider (It can use any type of slider/carousel) with a minimum of 3 slides and meaningful information
2. Banner section 2**:** Here will show some animatio ,such as motion
3. Running Campaign Section: We need to show at least 6 cards of Running Campaign. Running campaigns are the ones where the deadline has **not passed** yet. These campaigns are still active, and people can contribute to them. Here I will show the data from the database. Each card will contain a “See More” button.

**By Clicking on the “See More” button it will redirect to the details page.**

1. Extra Section**:** Extra 2 relevant and meaningful extra sections that are mentioned above on the Home page.

# Authentication

1. Login Page**:** When User click the login button on the navbar it redirects to the login page. I have to use a password and email-based authentication to log in. The login page will have-
   1. Email
   2. Password
   3. Google login, GitHub - implement any of one
   4. A link that will redirect to the Register page

**Here the email and password should match with the registered email and password. If it doesn’t match, show an error. It can show an error by using toast/sweet alert if you want.**

1. Register Page**:** I have to use a password and email-based authentication to register. The Register page will have the following -
   * Name
   * Email
   * photoURL
   * password
   * A Link that will redirect to the login page

* For password verification you need to follow this -
* Must have an Uppercase letter in the password
* Must have a Lowercase letter in the password
* Length must be at least 6 character
* If any of this isn’t fulfilled it will show an error/toast
* After successful login or Register you need to show toast/sweet alert

# 11.Add New Campaign Page ( /addCampaign )

Create an Add New Campaign page where there will be a form for the user to add a Campaign. The form will have:

* + image/thumbnail ( use image URL)
  + Campaign title(string)
  + Campaign type ( personal issue, startup, business, creative ideas) you can take it as a dropdown list.
  + description
  + Minimum donation amount (number)
  + Deadline (Date)
  + User Email (Read Only/ you can not edit this field)
  + User Name (Read Only/ you can not edit this field)
  + “Add” button

**This will be a private/protected route.**

When you fill in the data and submit the “Add” button, these data will be stored in your database and you will show a success message through toast/sweet alert.

# 12.Details page (/campaign/:id)

**Details route will be a private/protected route.** Please make sure that if the user is not logged in, the private route redirects to the login page. On this page, you will show all the information you have stored in the database. There will be a “Donate” button on this page, after clicking on the “Donate” Button the campaign data (with logged-in email and username) will be stored on the database in the **donated collection** with *the user email and username.*

# 13.All Campaign (/campaigns)

Create an All Campaign page where you will see the campaigns all the users have added to the database. You will get the data from the database and show it here in the **table**. Which property you want to show for each campaign is up to you. There will be a See More button on each table row.

**Clicking the See More button will redirect you to the Details Page.**

# 14.My Campaign (/myCampaign)

**It will be a private/protected route.** On this page, a user can see all the Campaigns he/she has added to the database. here a user can only see his/her added data, but he/she can not access other's data. Here you need to show the data in table Format. Each row of the table will contain these information-

* + 3-4 information about the campaign
  + “Update” Button
  + “Delete” Button

# 15.Update Campaign Page (/updateCampaign/:id)

**It will be a private/protected route.** When a user clicks on the “Update Button” it will take the user to the Update page, where there will be a form for the user to update a Campaign. The form will have the following:

* + All the fields you have taken in the Add New Campaign Page (But user name & user email will be read-only)
  + “Update” button

**This will be a private/protected route.** When you fill in the data and submit the “Update” button, these data will be updated to the previous data in your database and you will show a success message through toast/sweet alert.

**(Optional):** If you don’t want to create an Update page, you can also use a **modal** to update your data. For this when you click on the “Update” button it will open a modal but make sure you are logged in before updating the data.

# Delete:

If the user clicks the delete button, the Campaigns will be removed from the data. Before the delete, ask for a delete confirmation.

# 16.My Donations (/myDonations)

**It will be a private/protected route.** On this page, a user can see all the Donated Campaigns he/she has added to the database. You need to show all the data in Card format. here a user can only see his/her added data, but he/she can not access other's data. Which data you want to show is your choice.

# 17. Other Requirements

* **404 page:** Add a 404 page/Not Found Page
* **Loading Spinner:** Show a loading spinner when the data is in a loading state.

# 18. Other Requirements of challanging

* Implement a dark/light theme toggle for the home page.
* Explore this package and implement :
  + [Lottie React](https://www.npmjs.com/package/lottie-react)
  + [React-simple-typewriter](https://www.npmjs.com/package/react-simple-typewriter)
* At the top of the **All Campaign** page, there will be a button where you will implement [sort](https://www.mongodb.com/docs/manual/reference/method/cursor.sort/) functionality based on “Minimum donation amount”. You can sort by ascending or descending or, it’s up to you.
* In the Details page if the deadline is over you can’t add the campaign to the donated collection rather you will show a message/toast/modal.