

NEXT GEN EMPLOYABILITY PROGRAM

CREATING A
FUTURE-READY
WORKFORCE

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CAPSTONE PROJECT SHOWCASE

Project Title

Crowdfunding Platform with React and ExpressJS Framework (P1)

Abstract | Problem Statement | Project Overview | Proposed Solution |
Technology Used | Modelling & Results | Conclusion | Q&A

Abstract

1

Crowdfunding Platform with React and ExpressJS is a web-based solution designed to facilitate secure and transparent fundraising for various causes, enabling users to create and manage campaigns seamlessly.

2

The platform features a **React.js frontend** for an intuitive user experience, while the **Express.js and MongoDB backend** ensures secure data handling and efficient campaign management.

3

Key functionalities include campaign creation, donation processing, real-time updates, admin dashboard for managing funds, and user authentication for secure transactions.

4

This project aims to **enhance accessibility, trust, and efficiency** in online fundraising by providing a robust and scalable solution for individuals and organizations.

Problem Statement

- Crowdfunding is a vital tool for individuals, startups, and organizations to raise funds for various causes, yet existing platforms often suffer from high transaction fees, lack of transparency, and limited accessibility.
- This project aims to address these challenges by developing a **secure, transparent, and user-friendly crowdfunding platform** that enables users to:
 - ✓ **Create and manage campaigns** easily.
 - ✓ **Track donations in real-time** for transparency.
 - ✓ **Ensure secure payments** with **Paytm integration**.
 - ✓ **Use a modern tech stack** with **React, ExpressJS, and MongoDB** for scalability.



Project Overview

- A **crowdfunding platform** built with **React (Frontend)** and **ExpressJS (Backend)**, using **MongoDB** for data storage.
- Users can **create, manage, and contribute** to campaigns securely.
- **Admin dashboard** for monitoring campaigns and donations.
- **Real-time tracking** of funds raised for transparency.
- **Paytm integration** for seamless payment processing.
- **Secure authentication** with JWT for admin login.
- **User-friendly interface** with responsive design.



Proposed Solution

❑ Frontend Implementation (React.js)

- Built using **React.js** for a dynamic and responsive user interface.
- Utilized **React Router** for seamless navigation between pages.
- Integrated **state management** for handling user interactions and campaign data.

❑ Backend Development (Express.js & Node.js)

- Developed with **Express.js and Node.js** to handle API requests efficiently.
- Implemented **RESTful APIs** for campaign management, user authentication, and donation processing.
- Used **JWT-based authentication** to secure admin and user logins.

❑ Database (MongoDB Atlas)

- Hosted on **MongoDB Atlas** for scalable and cloud-based data storage.
- Structured data using **Mongoose models** for campaigns, users, and transactions.

❑ Payment Gateway Integration

- **Paytm integration** for seamless and secure online payments.
- Transaction details stored and managed for transparency and accountability.

❑ Additional Features

- **Admin Dashboard** for monitoring donations and managing campaigns.
- **Real-time donation tracking** to show the latest contributions.
- **Secure and scalable** system designed to handle large user interactions efficiently.

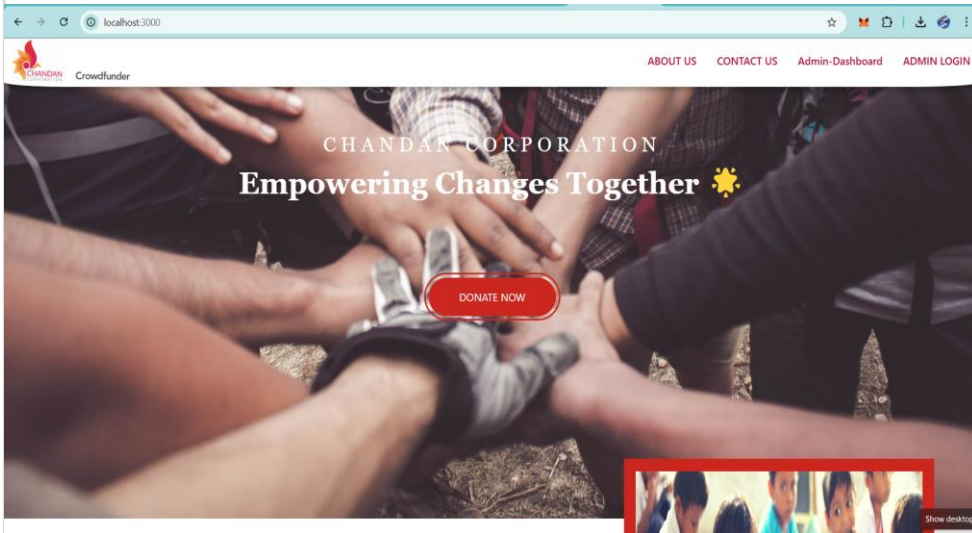
Technology used

- **Frontend:** Built using **React.js** for a dynamic user interface, **React Router** for navigation, and **CSS Modules** for styling.
- **Backend:** Developed with **Node.js** and **Express.js** to handle API requests efficiently. **JWT (JSON Web Token)** is used for secure authentication and session management.
- **Database:** **MongoDB Atlas** is used as a cloud database, with **Mongoose** to define and manage data models.
- **API & Security:** **CORS** is enabled for cross-origin requests, **Body-parser** processes incoming requests, and **Bcrypt.js** ensures encrypted password storage.
- **Payment Integration:** Integrate **Paytm Payment Gateway** for secure and seamless donation transactions.
- **Development & Deployment:** APIs tested using **Postman**, version control managed through **GitHub**, frontend planned to host on **Vercel**, and backend deployment planned on **Railway/Render**.

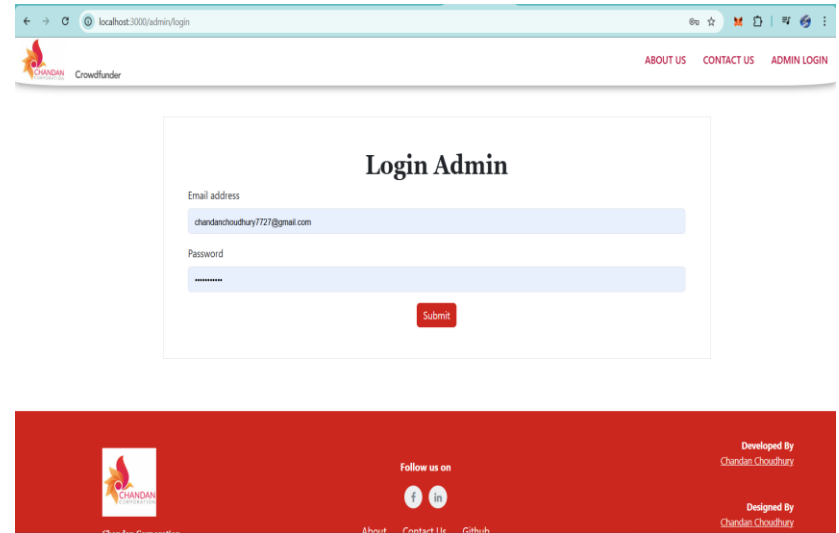


Modelling & Result

Home Page




Admin Login Page




Modelling & Result

Admin Dashboard & New Campaign Creation Page

 Crowdfunder


ABOUT USCONTACT USAdmin-DashboardADMIN LOGIN



Admin Dashboard

chandanchoudhury7727@gmail.com

[New Admin +](#)[New Campaigns](#)[All Campaigns](#)[Logout](#)

 Crowdfunder

ABOUT USCONTACT USAdmin-DashboardADMIN LOGIN

New Campaign

Campaign Name

Enter Campaign Name

Campaign Sub Heading

Enter Campaign Sub Heading

Image

Enter Image URL

Campaign Description

Enter description...


Amount

Enter amount to be raised (in Rs)

☒ Activate

Submit


Contact Us Page

 Crowdfunder

ABOUT USCONTACT USADMIN LOGIN

CONTACT US

We'd love to hear from you! Whether you have questions, suggestions, or simply want to know more about our mission, feel free to reach out to us. Our dedicated team is here to assist you and provide any information you may need. Together, we can make a difference in the lives of underprivileged students through education. Contact us today, and let's work together to build a brighter future.



Get In Touch

Feel free to contact us in case of any queries

Enter your email ID here...


Enter message here...

Send

Our Office

CHANDAN CORPORATION
HEAD OFFICE
Odisha Technology Centre,
Bhubaneswar, Odisha 751022

For any queries, reach us out at email :
chandanchoudhury7727@gmail.com
+91-8280912554



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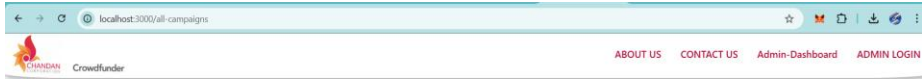
Developed By
Chandan Choudhury

Designed By
Chandan Choudhury

For any queries, reach out to us at email
chandanchoudhury7727@gmail.com

Modelling & Result

All Campaign's Page



All Campaigns




E-Siksha For All

E-Siksha For All is a transformative initiative aimed at making quality education accessible to every child, regardless of their background or location. Our mission is to harness the power of technology to bridge the educational divide, providing interactive learning resources, online classes, and mentorship programs. By supporting E-Siksha For All, you are contributing to a future where every child has the opportunity to learn, grow, and succeed. Join us in our journey to create a world where education knows no boundaries!

Required Amount: ₹ 10000

[Donate Now](#)



test4

test4 description here...

Required Amount: ₹ 50000

[Donate Now](#)



test1

test1 description here...



test2

test2 description here...

Donation Page: Clicking on Donate now → Donation Form → Paytm Payment Gateway



E-Siksha For All

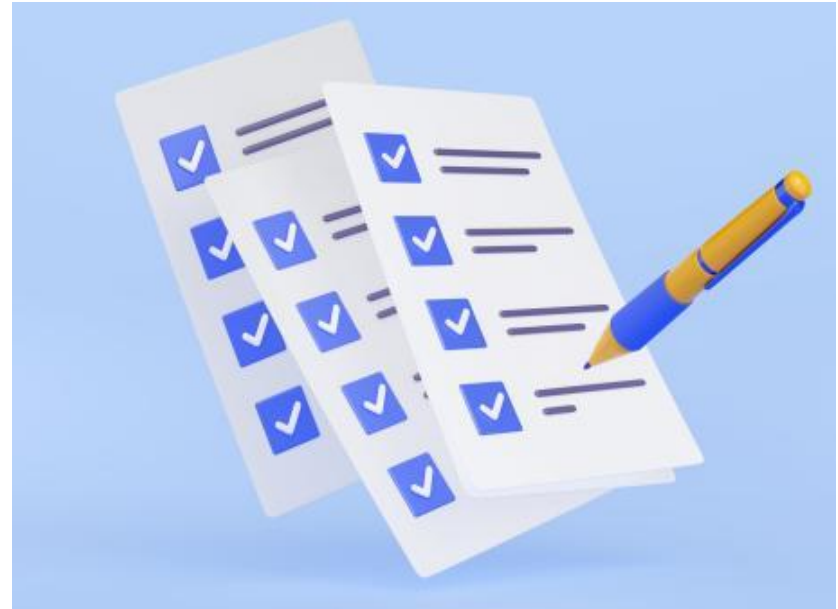
- Online Education for Everyone

E-Siksha For All is a transformative initiative aimed at making quality education accessible to every child, regardless of their background or location. Our mission is to harness the power of technology to bridge the educational divide, providing interactive learning resources, online classes, and mentorship programs. By supporting E-Siksha For All, you are contributing to a future where every child has the opportunity to learn, grow, and succeed. Join us in our journey to create a world where education knows no boundaries!

[Donate Now >](#)

Conclusion

- This crowdfunding platform provides a seamless and secure way to support campaigns, ensuring transparency and ease of use.
- With **React.js** for frontend, **Express.js & Node.js** for backend, and **MongoDB Atlas** for data storage, the system ensures a scalable and efficient architecture.
- **Paytm payment gateway integration** for secure transactions.
- This project demonstrates the power of modern web technologies in building a user-friendly and impactful crowdfunding solution.



Thank you!

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foundation