

AIM:

The College-Level Crowdfunding Portal is designed to provide a streamlined and transparent platform for students, faculty, and departments to raise funds for academic, research, and extracurricular projects. By enabling easy campaign creation, secure donation management, and effective community engagement, the system addresses challenges in traditional fundraising. It aims to:

- Enhance accessibility to funding for innovative and academic projects.
- Ensure transparency and accountability in donation tracking and campaign progress.
- Foster greater collaboration and involvement within the college community, alumni, and external supporters.
- Simplify the management of fundraising campaigns, promoting efficiency and success.

OBJECTIVES:

1. **Comprehensive Campaign Management:**
 - Allow project creators to design detailed campaigns with goals, budgets, and media.
 - Enable admin review and approval for campaign legitimacy and quality.
2. **Secure Donation Handling:**
 - Support multiple payment methods for seamless contributions.
 - Provide real-time tracking of donations and campaign progress.
3. **Community Engagement:**
 - Facilitate sharing campaigns across social media to increase visibility.
 - Encourage donor engagement with personalized updates and acknowledgments.
4. **Reporting and Analytics:**
 - Generate detailed reports on donations, campaign performance, and donor demographics.
 - Provide insights to optimize future campaigns and fundraising efforts.
5. **User Roles and Access Control:**
 - Ensure secure access and tailored functionalities for admins, project creators, and donors.
 - Promote transparency and accountability for all stakeholders.

TECHNOLOGY AND TOOLS:

1. Frontend:

- **React:** Build an interactive user interface for campaign creation and browsing.
- **React Router:** Enable seamless navigation between platform pages.
- **HTML, CSS, JavaScript:** Ensure responsive and user-friendly design.

2. Backend:

- **Spring Boot:** Develop robust and scalable backend services for API handling and business logic.
- **Spring Security:** Ensure secure authentication and authorization for all user roles.
- **Spring Data JPA:** Manage database operations efficiently.
- **MySQL/PostgreSQL:** Store campaign details, donor records, and analytics data.
- **Hibernate:** Handle ORM for seamless database interactions.

3. Payment Integration:

- **Stripe/PayPal APIs:** Enable secure and reliable online transactions for donations.

This College-Level Crowdfunding Portal empowers students and faculty by providing a transparent, secure, and user-friendly system to achieve their funding goals, fostering innovation and collaboration within the academic community.