

Sandbox

Project Proposal
By InstiSocial
For InstiX

From

Preet Kodape

Samarth Bansal

Kunal

Chandan

Ishan

1. Problem Statement: - Develop a Comprehensive platform that Facilities connecting with Instizians, provides a Customisable widget, enables exchange of goods between students of IITB (*especially 4th year students and other students*), offers a shop canteen feature, Profile of person, and allows community posts.

Description: - The Problem is to design and implement a centralized platform or application that fulfils the following requirements.

1. Connecting Instizians: - The platform should provide a robust and user-friendly mechanism for connecting with instizians. User should be able to search for and connect with others instizians based on their interests, location or specific criteria.
2. Widget: - The app will offer a customized widget for their ID card so they Don't need to think and carry ID card more often, this will also provide relevant information, updates related to Instizians community (underline point is currently in discussion)
3. Insti Exchange: - A platform where goods and service can be exchanged between students in insti like 4th leaving insti can list their products and can give them to junior.
4. Profiles: - The Platform should have a feature that allows instizians to showcase their profiles of different social media on a APP.
5. Shop & Canteen: - The Platform should integrate a shop canteen feature to allow Instizians buy goods and services, this feature can facilitate transactions create an online market enable food ordering within designated canteens.
6. Community Post: - The platform should provide a dedicated space for community to post and share relevant information, announcements, discussions, or queries. Users should be able to engage with each other through comments, likes, and sharing functionalities.

The solution should prioritize user experience, security, and scalability. It should be accessible through mobile and support essential features like user authentication, real-time notifications, and search capabilities.

Note: Additional requirements, such as privacy controls, moderation features, or integration with existing systems, may be specified based on specific needs and constraints.

2. Project Description: - The Problem is to design and implement a centralized platform or application that fulfils the following requirements.

1. Instiz Connect: - A user -friendly platform to connect with Instizians based on interests, location, or specific Criteria.
2. Instiz Widget: - A customisable ID card widget for instizians, eliminating the need to carry physical ID card. Stay updated with relevant information and community updates. (Under Discussion)
3. Insti Exchange: - A platform for students in Insti to exchange goods and services.
4. Profiles: - The Platform should have a feature that allows instizians to showcase their profiles of different social media on a APP.
5. Insti Shop & canteen: - Integrated feature for instizians to buy goods and services, facilitate transaction, creating an online market, and enable food ordering within designated canteens.
6. Community Post: - Dedicated space for Instizians to share relevant information, announces, discussions, and quires. Engage through comments, likes and sharing.
7. Event Feed: - Stay updated with upcoming and ongoing events. Receive reminders and get a 48-hour window to post videos and photos of the event on your account. Explore event glimpses in the feed.
8. Confessions Page: - A platform where individuals can anonymously confess about themselves. Engage in anonymous comments and have anonymous conversations with others regarding confessions.
9. Insti Quora: - A platform where individuals can ask questions and seek answers from knowledgeable individuals on various topics within the Instizians community.
10. Internship Blog: - Showcase your internships on your profile, allowing individuals with similar interests to connect, contact, and exchange knowledge in their respective fields. Foster collaboration and form groups or enterprises with like-minded individuals.
11. POR Holder: - A database of 3rd-4th year council members at the institute level, enabling 2nd year students to verify their resume points and seek guidance in their respective fields. Facilitate connections between freshers and seniors holding positions of responsibility (POR) in various domains.
12. Hierarchy Tree: - A visual representation that aids students in determining whom to contact for academic, hostel, sports, cultural, and other related issues. It assists in planning their four-year journey by helping them decide which clubs, organizations, or bodies to join based on their interests, as well as understanding the roles and pathways to become managers or organizing committee members in the future.
13. Live Updates: - This feature includes a media section for users to explore. It also aims to promote lesser-known insti pages by showcasing them and ensuring their posts appear in the default insti feed.

14. **Alumni Community:** - This feature allows alumni to join the app and reminisce about their campus days by creating common groups based on their circles. The Alumni feature also includes an Intern option, where alumni can connect with like-minded students for projects or startups. Students can also leverage this app to connect with alumni and apply for internships with the support of the alumni community.

Unified Filter: After multiple iterations and discussions, we have decided to incorporate an advanced Filter feature that connects all the above-mentioned points. This feature allows users to create personalized tags when setting up their profiles, enabling them to receive important information tailored to their preferences in their feed. The Filter feature also facilitates finding like-minded individuals, as well as discovering clubs, tech teams, and institute bodies of interest, all at the fingertips of the students. This comprehensive feature aims to provide students with easy access to knowledge about the institute.

3. Project Deployment: -

The project aims to be deployed specifically for Insti students. Its primary goal is to facilitate easy connectivity among students and provide them with insights into how the institute functions. By creating an ecosystem within the app, it aims to centralize essential activities and resources that students need. This comprehensive platform will enable students to explore various opportunities, guiding them to make informed decisions about their future. It will help them identify and seize opportunities before it's too late, ensuring they have a well-rounded experience during their time at the institute.

4. Software Tools and Hardware: -

The software tools and hardware we are utilizing for our project include:

- **React Native:** We are using React Native for app development.
- **Figma:** Figma is our chosen tool for developing the UI/UX of the app.
- **Canva:** We are utilizing Canva not only for creating attractive UI/UX designs but also for publicity purposes.
- **AWS:** We have selected AWS for hosting our app's database and making it accessible on Google Play Store, Apple App Store, and other app stores.
- **Hosting Apps:** We have options like AWS and Azure for hosting our app.
- **GoDaddy:** We are using GoDaddy to register a domain name for our project.

5. Contribution: -

- Preet Kodape: - I have generated project ideas, facilitated team formation, acquired skills in UI & UX design, and I'm currently engaged in tutorials to develop a web-based application. Additionally, I am responsible for creating presentations for our team meetings.
- Samarth Bansal: - I helped the team in realizing critical aspects related to any feature that we have added in the app, like its use cases, resources, expertise, time, etc needed to build any feature, and generally for the app. And guiding to appropriate learning materials and optimizing the process.
- Chandan Kumar: - My focus lies in ideation, project management, and collaboration, along with improving my programming skills such as Python, and acquiring proficiency in cross-platform development frameworks such as Flutter or React Native.
- Kunal Khadgi: - I actively contributed to the ideation phase, shared creative ideas, and played a role in introducing new features to enhance the app's functionality. I am currently taking tutorials of react native online for app development.
- Ishan: - I helped with ideating features and will work on proper execution of implementing these features during the development Phase. I'm currently learning Full-stack app development involving Frontend with React-Native and Backend using AWS.

6. Project Timeline: -

Semester 1:

- Week 1: Set up the project repository on GitHub and finalize the project plan.
- Week 2: Begin working on the wireframe and set up the backend, including database configuration.
- Week 3: Finalize the frontend design and work on hosting services for the app.

- Week 4: Develop a rough version of the app for initial testing and collect data of important individuals in the institute.

Semester 2:

- Week 1: Distribute the beta version to individuals holding positions of responsibility (POR) for feedback.
- Week 2: Refine the user interface for the frontend and ensure seamless integration with mobile devices.
- Week 3: Prepare a plan for necessary post-development maintenance and updates.
- Week 4: Deploy InstiX within the institute, monitor its performance, and track user engagement.

Note: The timeline provided is a general overview and may be subject to adjustments and iterations based on the project's progress and requirements

7.Project Budget: -

- Google Play Store Registration: Approximately \$24.
- Apple Store Membership: Approximately \$99. In Indian currency, it would be around 8000 rupees and 2000-2500 rupees.
- Hosting Platform: Around 6000 rupees per month for hosting services.
- GoDaddy: Domain registration for the website starts at 500 rupees and can go up to 2000 rupees.
- Development of Android App: The total approximate cost ranges from 80,000 to 100,000 rupees.

Please note that the provided budget estimates are subject to change and may vary based on specific requirements and pricing structures.

8.Work Done till Now: -

Extensive research has been conducted for this project to ensure its success and effectiveness. During one of our review meetings, our team conducted thorough research to address a critical question: why would students be willing to use our app? We recognized the importance of providing a compelling answer to this question to ensure the success and adoption of our project. To tackle this challenge, we engaged in team discussions and brainstorming sessions to explore potential solutions. We delved deeper into understanding our target audience, their needs, and their expectations from such an app. This process allowed us to gain valuable insights into the user

demographics and the key features that would attract and retain students on the app. By investing time and effort into this research phase, we were able to gather comprehensive insights that guided our decision-making process. Armed with a better understanding of our target users, we were equipped to develop an app that catered to their specific needs and preferences.

As a team, we are embarking on a learning journey to build an app from scratch, despite having no prior knowledge in this field. We are actively engaging in various learning resources to gain proficiency in different aspects of app development. Some team members are focusing on learning UI/UX design principles to ensure an intuitive and visually appealing user interface. Others are delving into database management, honing their skills in creating and managing databases effectively. Additionally, we have team members dedicated to mastering React Native, an essential framework for building mobile applications. We are diligently following tutorials and online courses to gain practical knowledge and hands-on experience in app development. Through our collective efforts and commitment to learning, we aim to acquire the necessary skills and knowledge to successfully bring our app idea to life. We understand the importance of continuous learning and are dedicated to staying updated with the latest technologies and best practices in the field of app development.