TECHIE MITRA : A MOBILE APPLICATION

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Abstract— TechieMitra, aptly named to signify its role in connecting service seekers with service providers, is a sophisticated system designed to streamline and enhance the process of finding the right for appliance repairs and services. This advanced platform operates seamlessly on both Android and iOS devices and is developed within the Visual Studio Code editor. It leverages a combination of cutting-edge technologies such as Node.js, React Native, and PostgreSQL, with Supabase potentially complementing its functionality. TechieMitra's mission is to provide users with rapid access to skilled technicians, revolutionizing the way appliance repairs are sought and facilitated.

Keywords:ReactNative,PostgreSQL,Supabase,Techiemitra,Serviceseekers,Serviceproviders, Technician

I. INTRODUCTION

The Techiemitra application is a mobile application that serves as a platform connecting individualsin need of appliance repair services (customers) with skilled service providers (technicians). Its primary purpose is to facilitate a seamless and interactive experience between these two parties. Users can access a wide range of features and functionalities through this app to address their appliance repair needs.

In today's fast-paced world, electrical appliances like refrigerators, air conditioners, and coolers have become indispensable in the lives of people. These appliances serve multiple essential functions, such as food storage, providing respite from scorching heat, and assisting with various daily tasks.They have seamlessly integrated into the daily routines of individuals, making life more convenientand comfortable.

II. PROJECT FLOW

The project flow of Techie Mitra involves various stages from conception to deployment, including planning, development, testing, and launch. Here's a high-leveloverview of the project flow:
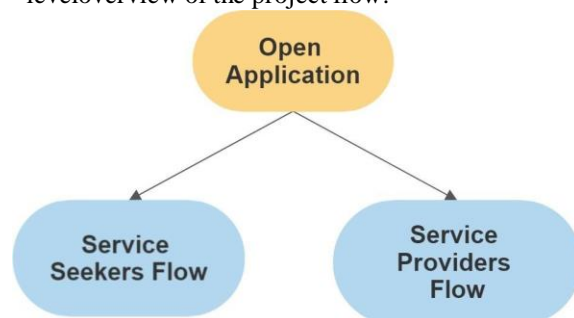
1.Project Initiation:
•Define Objectives and Scope: Clearly outline the

objectivesof Techie Mitra, identifying target audiences and definingthe scope of the platform's features.
•Market Research: Conduct research to understand user needs,analyze competitors, and identify trends in social media platforms.

2. Requirement Gathering and Analysis:
•User Stories and Use Cases: Create user stories and use casesto define specific features and functionalities based on user needs.
•Stakeholder Input: Gather input from stakeholders, includingpotential users, to ensure alignment with user expectations.

3. Design Phase:
•UI/UX Design: Develop wireframes and design the user interface and experience, ensuring a visually appealing andintuitive platform.
•Architecture Design: Plan the overall system architecture, including frontend and backend components.

4. Development:
•Frontend Development: Implement the user interface using technologies like React.js and Material UI to ensure a responsive and engaging design.
•Backend Development: Develop the server-side logic usingNode.js, integrating with MongoDB for database management.

5.Refinement and Iteration:
•   Feedback Incorporation: Integrate user feedback andmake necessary refinements to improve features, usability, and overall user experience.
•   Agile Iterations: Implement agile development cycles, allowing for continuous improvement and iteration based on evolving requirement

6.Security and Privacy Measures:
Implement Security Features: Integrate encryption mechanisms, secure authentication processes, and ensure dataprivacy compliance.
Content Moderation: Implement tools and algorithms for content moderation to maintain a safe and respectful onlineenvironment.

7.Finalization:
Optimization: Fine-tune performance, optimize code, andaddress any remaining issues.
Localization: Implement language support and localizationfeatures for a global audience.

8.Deployment:
Server Setup: Deploy the platform on servers, ensuringscalability and reliability.
Monitoring and Maintenance: Implement monitoring toolsand establish maintenance procedures to address issues promptly.

9User Onboarding:
User Registration: Enable user registration and accountcreation.

Guided Onboarding: Provide a guided onboarding experiencefor new users to familiarize them with the platform.
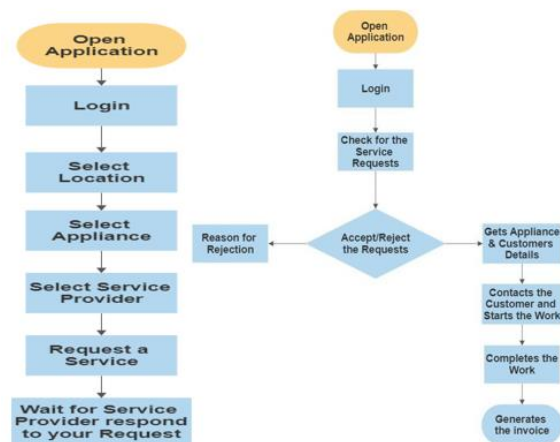
III.   TECHNOLOGIES USED

Techie Mitra relies on a robust technology stack to deliver its seamless functionalities. The project leverages prominent web development technologies, including React.js for the user interface, Node.js for server-side scripting, and Express.js as the web application framework. The use of MongoDB as the database ensures efficient data storage and retrieval, while REST APIs facilitate communication between different components of the platform. Furthermore, the implementation of Material UI contributes to a visually appealing and user-friendly design enhancing the overall user experience on Techie Mitra.

- **Front–end:** React.js
- **Back–end:** Node.js
- **Framework:** Express.js
- **Database:** postgresql

IV.   IMPLEMENTATION DETAILS

The Main components of the ProposedSystem are:
1.   Login Screen

Login Screen has the input text fields in which the user enters his/her accountcredentials like email and password and contains a button called signup ,which meansif you haven't created an account you click on that button and create and account.
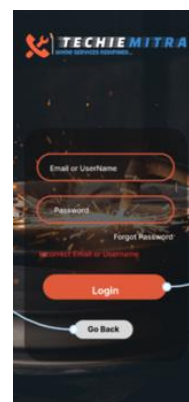
2. Signup Screen

Signup Screen has the text input fields like Name ,Email ,Location, Password, Bioand also you can upload your profile picture which is less than the 80kb of size that isbecause we have converted the image into base64 and stored that data in the database.
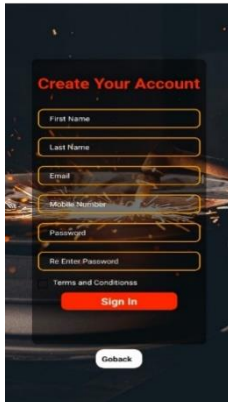
3. Home Screen

Home Screen Contains the feed of your friends and you can able to see the posts posted by the accounts in the Social Connektt website.And also you can post the posts by using the posts button with caption if you want.
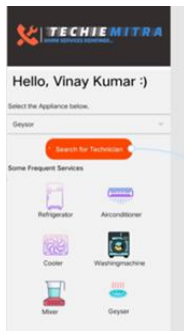
V. FEATURES AND FUNCTIONALITIES

User Profiles:

Users can create personalized profiles with profilepictures, bios, and location information.
Customizable privacy settings allow users to control the visibility of their profile details.

Customer Interaction:

Customer can send request,

Content Discovery:

Personalized news feed displays posts from friends or connections, facilitating content discovery.
Explore or Discover section allows users to find new connections and discover diverse content based on interests or hashtags.

Techinican Sharing:

Users can upload and share images, videos, and other multimedia content with their network.
Support for embedding external media that has been done in the work time

Privacy and Security:

Robust privacy settings empower users to control the visibility of their posts and manage friend requests.
Content moderation tools ensure a safe and respectful online environment.
User data is encrypted to enhance security and protect user privacy.

Technology Stack:

Utilizes modern technologies such as React.js and Material UI for an aesthetically pleasing and responsive frontend.
Backend development powered by Node.js and Express.js, with MongoDB managing the database for efficiency and scalability

VI. CONCLUSION

The Techie Mitra application represents a groundbreaking solution for addressing the challenges faced by both service providers (technicians) and service seekers (customers) in the appliance repair service industry. Throughout this project, we have explored the application's aim, objectives, andthe transformative impact it promises to have on the sector.

A New Era in Appliance Repair: Techie Mitra is not just an application; it's a game-changer in the world of appliance repair. Its aim is to simplify and streamline the process of connecting customers in need of appliance repairs with skilled technicians. In this fast-paced digital age, where time and convenience are paramount, Techie Mitra offers a lifeline to those seeking efficient and reliable repair services.

Achieving Key Objectives: The objectives of Techie Mitra have been meticulously designed tofulfill its aim

VII. FUTURE WORK

The Techie Mitra mobile application project has reached a significant milestone, marking the completion of development as per our requirements. Currently, the application is undergoing rigorous testing to ensure that it functions seamlessly and efficiently, providing an optimal user experience for both service seekers (customers) and service providers (technicians). This stage oftesting is crucial to identify and address any potential issues or bugs that may arise during real-world usage

1. Like Functionalities:
   - Purpose: Enhance like functionalities by considering features like reactions (e.g., thumbs up, hearts) or additional expressions toprovide users with more nuanced ways to interact with content.
   - Benefits: Diversifying like functionalities adds
     depth to user engagement, allowing users to express a wider range of emotions in

response to posts.

2. Code Optimization:
   - Purpose: Optimize the codebase to improve performance, reduce load times, and enhance the overall efficiency of the platform.
   - Benefits: Code optimization contributes to a

     smoother user experience, especially on devices with varying specifications. It can also positively impact server costs and resource utilization.

3. Enhanced Privacy Features:
   - Purpose: Introduce advanced privacy features, such as selective post visibility and friend categorization, to offer users more granular control over their online presence.
   - Benefits: Advanced privacy features empower

     users to tailor their experience, ensuring that they share content with the right audience, enhancing trust and user satisfaction.

Publish The App in playstore

VIII.   ACKNOWLEDGEMENT

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