

TUSAS ENTREPRENEURSHIP SUPPORT PROGRAM MOBILE APP

Hacettepe University Final Project
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DESIGN PHASE OF THE PROJECT

In collaboration with TUSAŞ, we endeavored to create our application to be both user-friendly and more efficient. In doing so, we solicited feedback from individuals who have previously used similar applications and regularly engaged with mobile applications. Insights gathered from these feedback sessions and research allowed us to determine how the application could be more effective and have a simpler user interface.

UTILIZED TECHNOLOGIES

- **PostgreSQL** serves as our database management system, chosen for its robust capabilities in handling intricate data structures, maintaining data integrity, and scaling seamlessly to accommodate our application's evolving needs.
- **React Native** drives our frontend development, enabling the creation of cross-platform applications from a unified codebase, thus reducing development time and complexity.
- **React**, utilized for our administrative interface, employs a declarative and component-based approach to simplify interactive user interface development, enhancing rendering speed and overall performance.
- **Node.js** forms the backbone of our backend infrastructure, leveraging its event-driven architecture and expansive library ecosystem to deliver high-performance, scalable server-side applications.

PROJECT DESCRIPTION

Our project is a mobile application that serves as a central platform for personal development, encompassing entrepreneurship and innovation programs, events, news, educational and informative videos, as well as podcasts for self-improvement during leisure time. This application will act as a shared resource for both program managers and participants, facilitating communication and providing access to vital information. It not only offers access to a select group of successful individuals in their respective fields but also allows users to explore the content they produce. With content from one of our country's leading companies, TUSAŞ, we can enhance our personal development journey.

Maximizing Project Success

- **Agility and Flexibility:** React Native and React allow for rapid development iterations, enabling us to adapt quickly to changing user needs and market trends.
- **Scalability:** PostgreSQL and Node.js provide scalability options that align with the potential growth of our user base and data volume.
- **Performance:** The efficiency of React Native, React, and Node.js ensures a smooth and responsive user experience, enhancing user satisfaction and engagement.
- **Cost-effectiveness:** Leveraging open-source technologies like PostgreSQL, React Native, React, and Node.js minimizes licensing fees and reduces overall development costs, maximizing the project's return on investment.

RESULTS AND EXPECTED IMPACT

This mobile application aims to facilitate the management of entrepreneurship and innovation programs, thereby enabling participants to derive greater benefits from the programs. It is expected that effective communication, easy access, and a user-friendly interface will enhance the success of the programs. Additionally, it is hoped that such an application will serve as a model for other similar organizations and contribute to the proliferation of innovation.