**Tech Driven Solutions for Undertrial Prisoners in India**

**SIH 1282**

**Feasibility Report**

**1. Executive summary:**

The tech-driven solution aims to give access to legal aid, improving justice accessibility, and supporting rehabilitation efforts to the undertrial prisoners. This project looks to improve the overall welfare of prisoners. In this solution, features like tracking of their case, real-time updates etc. This will target govt. authorities for managing prisoners data efficiently, and prisoners to check current status of their cases.

**2. Description of project:**

This platform is designed to improve the legal and rehabilitation processes for undertrial prisoners. A secure, user-friendly mobile application allowing prisoners to request legal aid, track case progress, and communicate with legal advisors and integration of educational and vocational training modules to support prisoner’s rehabilitation and skill development.

**3. Technical considerations:**

The technical architecture of our solution will utilize React Native for developing the mobile application, ensuring cross-platform compatibility and efficient performance. Our backend operations will be powered by Ruby, providing robust server-side capabilities for seamless data handling and operations. MongoDB will serve as our database, offering scalable storage solutions to accommodate growing data needs effectively. APIs will be crucial for integrating with existing judicial and prison management systems, enabling streamlined data exchange and system interoperability. Additionally, the solution will leverage microphone and camera functionalities to facilitate remote court sessions, enhancing accessibility and efficiency in legal proceedings.

3.1 System Requirements

The development environment requires high-performance servers with the latest multi-core processors, a minimum of 16GB RAM, and GPUs with at least 4GB VRAM.

For the user, Android 10 or higher is required, with devices having a minimum of 8GB RAM and 200MB storage capacity, stable internet connection and a device must have camera and microphone.

3.2 Software Requirements

The software includes a mobile app with secure login, real-time case tracking, and communication features for prisoners and legal advisors. It integrates educational and vocational modules for prisoner rehabilitation. Backend infrastructure supports database management, APIs for external integration, and stringent security protocols, ensuring comprehensive legal aid and rehabilitation support. Application such as VS code, android studio will require for coding.

3.3 Hardware Requirements

Hardware needs include smartphones or tablets with adequate storage and internet connectivity for prisoners using the mobile app. Legal advisors require similar devices for app usage and communication. Meeting these hardware requirements facilitates effective deployment and operation of the digital platform, enhancing legal aid accessibility and supporting rehabilitation efforts for undertrial prisoners.

**4. Product market list:**

The solution targets a diverse range of markets including government agencies such as departments of justice, prison administration, and law enforcement. It also serves NGOs, individual lawyers, law firms, and legal aid societies seeking improved case management and communication tools. Institutions providing educational, vocational, and psychological support utilize the platform for prisoner rehabilitation efforts. Additionally, prisoners and their families benefit from access to resources that enhance their understanding and management of legal proceedings and rehabilitation processes.

**5. Marketing strategies:**

Effective marketing strategies will involve strategic partnerships aimed at promoting adoption of the solution. This includes collaborating with government bodies to advocate for and implement the platform within departments of justice, prison administration, and law enforcement. Engaging with NGOs will leverage their networks and expertise in legal aid and rehabilitation, strengthening support and outreach efforts. These partnerships are integral to ensuring widespread adoption and effective utilization of the solution across various sectors involved in justice and rehabilitation initiatives.

**6. Organization and staffing:**

* Project manager to lead the project, ensure timely delivery.
* Software developers to design, develop, and maintain the mobile application.
* UI/UX Designer – 1
* Frontend developer - 1
* Backend developer – 1
* Data security specialists to implement and check security measures.

Domain Expertise

* Legal experts to provide domain knowledge.
* Rehabilitation specialists to develop and integrate rehabilitation programs for undertrial prisoners.

**7. Schedule:**

The project will be executed in four months:

* Month 1 - requirements gathering and system design.
* Month 2 - development mobile applications
* Month 3 - integration and testing
* Month 4 - full deployment and user training

**8. Financial projection or finance:**

The financial projection includes costs for development, integration, marketing, and ongoing operations:

* Budget provided: ₹2,00,000
* Development costs: ₹1,00,000
* Integration and testing: ₹40,000
* Training and support: ₹20,000
* Marketing and outreach: ₹20,000
* Total estimated cost: ₹1,80,000

**9. Findings and recommendations:**

The feasibility analysis confirms the project's technical readiness, market demand, and societal impact. It ensures the solution uses current technologies for security, scalability, and user-friendliness. There's significant demand for improved legal aid and rehabilitation services among undertrial prisoners, involving government agencies, NGOs, and legal professionals. Financially, the project's costs are reasonable and feasible through various funding sources.

Recommendations:

The next phase focuses on detailed design and development, prioritizing user needs and seamless system integration while ensuring stringent data security and user privacy. Pilot programs will demonstrate effectiveness and gather essential feedback. Continuous monitoring and evaluation will drive iterative improvements to optimize outcomes and user satisfaction.