Startup Investment Application

Software Requirements Specification (SRS)

1. Introduction:

This document serves as the Software Requirements Specification (SRS) for the Startup Investment Application. The application is intended to bridge the gap between aspiring startups seeking funding and potential investors aiming to identify lucrative business opportunities. The SRS outlines the application's objectives, scope, functional and non-functional requirements, as well as the necessary hardware and software components. This document provides a comprehensive foundation for the development and deployment of the Startup Investment Application.

2. Purpose:

The primary purpose of the Startup Investment Application is to establish an online ecosystem that connects startup companies seeking financial backing with potential investors looking for promising investment opportunities. This platform aims to simplify and enhance the investment process by providing a user-friendly interface that facilitates efficient communication, collaboration, and decision-making between startups and investors.

3. Scope:

The Startup Investment Application facilitates efficient investment procedures. The scope encompasses user registration, streamlined pitch submission, investor discovery, secure document exchange, due diligence monitoring, and investment portfolio management. The system optimizes collaboration, minimizes manual interventions, and ensures data privacy, serving both startups and investors. It

aims to expedite decision-making, enhance transparency, and foster a seamless investment journey, contributing to the growth of startup ecosystems.

4. Software Hardware requirement: (Frontend, Backend, and Database)

The Startup Investment Application requires software compatible with Android platforms. It should be developed using programming languages like Kotlin. The app necessitates functionalities for user registration, pitch submission, investor search, secure document sharing and investment management. It requires integration with secure cloud storage services and APIs for investor data retrieval. The app should support various screen sizes and orientations for optimal user experience. Hardware requirements involve mobile devices running Android 8+ with internet connectivity. Regular updates and bug fixes ensure the app's performance and security.

5. Assumptions

Assumptions for the startup investment application include compliance with investment regulations, integration with external data sources, secure user authentication, compatibility with Android, reliance on network connectivity, user understanding of investment risks, basic technical proficiency, scalable architecture, regular maintenance, market volatility awareness, privacy compliance, and user feedback incorporation. These assumptions guide the development of the application, addressing legal, technical, and user-related factors. They form the foundation for features, security measures, and user experience, though subject to change based on evolving circumstances. Deviations from these assumptions will be documented and communicated to stakeholders.

6. Overview:

The Software Requirements Specification (SRS) for the Startup Investment Application provides a comprehensive roadmap for its development. This document outlines the functional, non-functional, and technical requirements of the platform. It covers user authentication and registration processes, seamless project submission by entrepreneurs, intelligent investor matching algorithms, secure payment gateways, stringent data privacy protocols, intuitive user interfaces, and adaptable mobile responsiveness. The SRS emphasizes real-time communication between startups and investors, ensuring transparent updates on investment progress. It also defines performance benchmarks, scalability considerations, and testing methodologies to guarantee a robust and user-friendly application. The SRS serves as a vital guide for development teams, ensuring the application facilitates secure, efficient, and successful interactions between startups and potential investors.

7. Functionality:

Functional Requirements:

- User Authentication: Secure login and registration using Firebase Authentication.
- Project Submission: Entrepreneurs create detailed profiles and submit their projects for investment. The application should support multimedia uploads.
- Investor Matching: Algorithms recommend projects to investors based on their preferences.
- Secure Payments: Integration with secure payment gateways to facilitate transactions.
- Data Privacy: GDPR-compliant measures for user data protection.
- Intuitive Dashboard: User-friendly interface for project and investment management.
- Real-time Notifications: Instant alerts for interactions and updates.
- Mobile Responsiveness: Optimal experience across devices for users.

Non-functional Requirements:

- Performance: Swift responsiveness, minimal disruptions.
- Security: Robust encryption, safeguarding user data.
- Scalability: Seamless growth handling of users and data.
- Usability: Intuitive interface, user-friendly interactions.
- Compatibility: Support for Android devices running Android 8+.

8.Modules:

The Startup Investment Application is divided into the following modules:

- User Profile Management: This module allows users to create, manage, and maintain their profiles.
- Project Submission: This module allows entrepreneurs to submit their projects for investment.
- Investor Matching: This module uses intelligent algorithms to match startups with potential investors.
- Payment Integration: This module integrates with secure payment gateways to facilitate transactions.
- Data Privacy: This module implements stringent data privacy protocols to protect user data.
- User Interface: This module provides an intuitive user interface for easy navigation.
- Mobile Compatibility: This module ensures that the application is compatible with mobile devices.

9. Implementation:

The Startup Investment Application will be implemented using the following technologies:

- Kotlin programming language

- XML for UI design
- Firebase for cloud storage and backend services
- Figma for UI mockups

The application will be developed using a modular approach, with each module being developed independently. This will allow for a more efficient development process and will make it easier to maintain and update the application in the future.

The application will be tested using a combination of manual and automated testing methods. Manual testing will be used to verify the functionality of the application, while automated testing will be used to ensure the application is stable and secure.

The application will be deployed to the Google Play Store for Android devices.

10. Maintenance and Support:

The Startup Investment Application will be maintained and supported by a team of developers. The team will be responsible for fixing bugs, adding new features, and making security updates to the application.

The application will also have a user forum where users can post questions and feedback. The development team will monitor the forum and respond to user queries in a timely manner.

11. Conclusion:

The Startup Investment Application is a comprehensive platform that aims to connect startups with potential investors. The application is designed to be user-

friendly, secure, and scalable. It will be implemented using modern technologies and will be maintained and supported by a team of experienced developers.

Figma is a popular design tool that can be used to create wireframes, mockups, and prototypes for mobile applications. It is a collaborative tool that allows multiple users to work on the same project simultaneously. This can be helpful for the development team to get feedback from stakeholders and make changes to the design as needed.