## 

**Software Requirements Specification**

**for**

**HANINI**

**Version 0.4**

**Prepared by**

**Group Name: The Champions**

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**Software Requirements Specification (SRS) for HANINI**

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to outline the technical and functional requirements for the development of HANINI, a mobile app connecting service providers with clients for everyday services such as home repairs, cleaning, and maintenance. Targeting the Algerian market, the app will help users find reliable service providers and will monetize through ads and premium subscriptions for service providers.

**1.2 Scope**

The HANINI app will enable service providers to list services they offer, and clients to search, book, and rate these services. The system will include AI-based identity verification for service providers by comparing their national ID with their live photo. The monetization model includes advertisements and premium subscriptions, offering more visibility for service providers. The app is specifically designed to facilitate local services within Algeria.

**1.3 Definitions, Acronyms, and Abbreviations**

● **Service Provider:** A person or business offering a specific service (e.g., plumbing, cleaning).

● **Client:** A user searching for and booking services through the app.

● **Verification:** The AI-driven process for confirming a service provider’s identity using their national ID and face recognition.

● **Admin:** The application manager responsible for approving accounts and overseeing the system.

● **Premium Subscription:** A paid feature that increases a service provider’s visibility within the app.

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**2. Overall Description**

**2.1 System Overview**

HANINI acts as a marketplace where service providers can list local services, and clients can search, filter, and book these services. Both service providers and clients will have personalized user accounts. Admins will manage the app content and handle the verification of service provider accounts, particularly when AI verification fails.

**2.2 System Features**

**2.2.1 User Registration and Login**

● Service Providers, Clients, Admins can register and log in.

● Admins will have permissions to manage accounts and content.

**2.2.2 Account Management**

**●** Service Providers can create profiles, post service listings, and manage their offerings.

● Clients can create accounts to search for, book, and review services.

● Admins can review and approve service provider accounts and manage system-wide content.

**2.2.3 AI-Based Identity Verification**

**●** Service Providers must verify their identity using national ID cards.

● AI will extract and compare details from the ID with a live photo.

● If the AI cannot verify the identity, the verification is escalated to an admin for manual review.

**2.2.4 Service Search and Discovery**

● Clients can search for services by category, location, price, and ratings.

● Advanced filtering options will allow users to refine their search**.**

**2.2.5 Ratings and Reviews**

● Clients can rate and review services after completion.

● Service provider profiles will display ratings and feedback from clients.

**2.2.6 In-App Advertising**

● The app will display ads relevant to users based on their interests and location.

● This will be one of the app’s primary revenue streams.

**2.2.7 Premium Subscriptions for Service Providers**

● Service providers can pay for premium subscriptions to increase their profile visibility.

● Premium accounts will receive better placement in search results and featured listings.

**2.2.8 Notifications**

● Clients will receive push notifications about upcoming bookings and service updates.

● Service providers will be notified of inquiries, booking requests, and premium subscription renewal reminders.

**2.3 Constraints**

● The app must run on both iOS and Android platforms.

● Data management must adhere to Algerian privacy laws and regulations.

● The app should integrate with local payment gateways for subscription fees.

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**3. Functional Requirements**

**3.1 User Interface (UI) Requirements**

● Login/Registration Screens: Intuitive interfaces for service providers, clients, and admins to log in or register.

● Service Listings: A clear interface for service providers to display their offerings and for clients to search services by categories, filters, and price range.

● Admin Dashboard: A comprehensive UI for admins to review manual verification requests and manage ads.

3.2 Booking System

● Clients can book a service by selecting a service provider and scheduling an appointment.

● The system allows clients to modify or cancel bookings within a predefined timeframe.

**3.3 Service Search**

● A search bar will be available for clients to find services quickly.

● The search can be refined by filters such as category, price, and ratings.

**3.4 Payment System**

● No direct payments will happen through the app for services between service providers and clients.

● Payment for premium subscriptions will be handled within the app via integration with local payment methods.

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**4. Non-Functional Requirements**

**4.1 Security**

● All user data will be encrypted.

● Two-factor authentication (2FA) will be used for admins and service providers.

**4.2 Scalability**

● The system will be designed to handle an increasing number of users without performance degradation.

4.3 Reliability

● The app will aim for 99.9% uptime, with regular backups and fail-safes to prevent data loss.

**4.4 Performance**

● The app should ensure pages load and searches return results within 3-5 seconds, even during peak hours.