## 

**Software Requirements Specification**

**for**

**<Project>**

**Version 0.1**

**Prepared by**

**Group Name: The Champions**

| **Abdi Adem Fares** | **1** | **<e-mail>** |
| --- | --- | --- |
| **Alasmer Anes** | **2** | **<e-mail>** |
| **Zobir Raouf** | **3** | **Zobiraouf@gmail.com** |
| **Benmati Ziad** | **4** | **benmatiziad5@gmail.com** |
| **Hachich Nouha** | **5** | **<e-mail>** |

| **Instructor:** | **Mr. Yasser Berghout** |
| --- | --- |
| **Course:** | **Software Engineering** |
| **Lab Section:** | ***AI Section*** |
| **Group Leader:** | **Abdi Adem Fares** |
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## **1. Introduction**

### **1.1 Purpose**

The purpose of this document is to outline the detailed technical and functional requirements for developing a mobile application that connects service providers with clients for various daily life services. The app targets the Algerian market and aims to facilitate finding workers for tasks like home repairs, cleaning, or other services. It will also include two monetization methods: ads and premium subscriptions for service providers to promote their services.

### **1.2 Scope**

This app serves as a platform where service providers can create accounts and offer services (e.g., home repairs, cleaning, etc.), while clients can search for and book these services. The system includes an advanced AI-based verification feature for validating service provider identities using their national ID and comparing their photo with their ID. If AI verification fails, a manual admin check will be initiated. The app will also have paid account features and ads for monetization.

### **1.3 Definitions, Acronyms, and Abbreviations**

* **Service Provider**: An individual or company offering a service (e.g., TV repair, house cleaning).
* **Client**: A user looking for a service to book through the app.
* **Verification**: The process of confirming a service provider’s identity using AI to analyze their ID and compare it to their photo.
* **Admin**: App administrators responsible for verifying accounts manually and managing app content.
* **Premium Subscription**: A paid feature that boosts the visibility of a service provider’s profile.

## **2. Overall Description**

### **2.1 System Overview**

The app acts as a marketplace where service providers can offer local services, and clients can search for and book these services. Both service providers and clients can create user accounts. Service providers can list services, including descriptions, prices, and images, while clients can search and filter services based on location, ratings, and price. Additionally, the app will include advanced AI-based ID verification and a premium subscription service for service providers.

### **2.2 System Features**

#### **2.2.1 User Registration and Login**

* Service providers, clients, and admins can register and log in to the app.
* Admins will have higher-level permissions for managing user accounts and handling verification requests.

#### **2.2.2 Account Management**

* **Service Providers**: Can create and manage their service offerings (including descriptions, images, and prices).
* **Clients**: Can create accounts, search for services, and book appointments with service providers.
* **Admin**: Can review and approve accounts, especially when AI verification fails, and manage ads.

#### **2.2.3 AI-Based Identity Verification**

* Service providers are required to verify their identity using their national ID card.
* The system uses AI to extract text and ID numbers from the card and compares the photo on the ID to a live picture of the person.
* If the AI fails to verify, the request is sent to an admin for manual approval.

#### **2.2.4 Service Search and Discovery**

* Clients can search for services based on categories, location, ratings, and price.
* Filters are provided to allow users to refine their search results.

#### **2.2.5 Ratings and Reviews**

* Clients can rate and review service providers after booking and completing a service.
* Service providers’ profiles will show overall ratings and client reviews.

#### **2.2.6 In-App Advertising**

* Advertisements will be shown within the app based on user interests and location.
* This is one of the revenue streams for the app.

#### **2.2.7 Premium Subscriptions for Service Providers**

* Service providers can pay for a premium subscription to increase their visibility in search results.
* The app will promote premium accounts to a broader audience and provide featured listings.

#### **2.2.8 Notifications**

* Push notifications for clients about upcoming service bookings, payments, and updates.
* Service providers receive reminders to renew premium subscriptions or respond to client inquiries.

### **2.3 Constraints**

* The app must be compatible with both **iOS** and **Android** platforms.
* All data storage and management must comply with local privacy and data protection laws in Algeria.
* The app must integrate with local payment systems like **CIB** or **CCP** for handling subscriptions and payments.

## **3. Functional Requirements**

### **3.1 User Interface (UI) Requirements**

* **Login/Registration Screens**: Simple UI to allow service providers, clients, and admins to log in or create accounts.
* **Service Listings**: A dynamic interface to list services by service providers, including filters for location, ratings, and price.
* **Admin Dashboard**: Interface for admins to manage user accounts, manual verification requests, and ads.

### **3.2 Booking System**

* Clients can book a service by selecting a service provider and scheduling an appointment.
* The system will allow clients to modify or cancel bookings within a certain period.

### **3.3 Payment System**

* Integration with payment gateways to handle service payments and premium subscription fees.
* Service providers can upgrade to a premium subscription through in-app purchases.

## **4. Non-Functional Requirements**

### **4.1 Security**

* User data will be protected using encryption technologies.
* Two-factor authentication (2FA) will be implemented for service providers and admins for secure login.

### **4.2 Scalability**

* The system should be able to scale up as the user base grows, especially during peak usage times.

### **4.3 Reliability**

* The app must ensure 99.9% uptime to maintain user trust.
* Regular backups will be maintained to prevent data loss.

### **4.4 Performance**

* The app should load pages and perform searches within 3-5 seconds, even with high user traffic.