MOBILE PLATFORM FOR INTEGRATION AND MANAGEMENT OF SPORTS LOCATIONS IN KYIV

INTRODUCTION:

In the bustling city of Kyiv, sports enthusiasts often find it challenging to locate, book, or manage sports facilities efficiently. The proposed project aims to bridge this gap by introducing a comprehensive mobile platform that seamlessly integrates various sports locations within the city, providing users and facility managers with a centralized, easy-to-use system.

OBJECTIVE:

The primary objective of this platform is to facilitate efficient and real-time management of sports locations, making it easier for users to find, book, and review facilities while allowing facility managers to handle bookings, feedback, and maintenance schedules effectively.

EXPECTED OUTCOMES:

- Increased visibility of sports facilities in Kyiv, leading to higher occupancy rates.
- Enhanced user satisfaction due to the ease of finding, booking, and providing feedback.
- Streamlined operations for facility managers with centralized management tools.
- A more engaged and active sports community in Kyiv, promoting health and wellness.

FUNCTIONAL REQUIREMENTS (FR):

FR1: USER AUTHENTICATION & AUTHORIZATION

1.1. The system shall allow users to register and create profiles.

1.2. The system shall provide facilities for users to securely log in and log out.

1.3. The system shall support multiple user roles, such as admin, sports facility owner, and regular user.

FR2: SEARCH & DISPLAY SPORTS LOCATIONS

2.1. The system shall enable users to search for sports locations based on criteria like sport type, location, availability, and user ratings.

2.2. The system shall display search results on a map interface with interactive pins representing each sports location.

2.3. The system shall provide detailed views of sports locations, including pictures, descriptions, and contact details.

FR3: BOOKING SYSTEM

3.1. The system shall allow users to verify the availability of sports locations and reserve time slots.

3.2. The system shall notify both the user and the facility owner when a reservation is confirmed.

3.3. The system shall offer an interface for facility owners to manage and adjust their available time slots.

FR4: USER REVIEWS & RATINGS

4.1. The system shall enable users to rate and provide feedback after utilizing a sports facility.

4.2. The system shall provide facility owners with the capability to reply to reviews.

FR5: INTEGRATION WITH EXTERNAL SYSTEMS

5.1. The system shall offer APIs for integration with payment gateways to facilitate booking payments.

5.2. The system shall integrate with external calendar platforms to synchronize bookings.

FR6: ADMINISTRATION & REPORTING

6.1. The system shall provide admin users with tools to manage all sports location information.

6.2. The system shall be capable of generating reports on usage metrics, revenue, and user actions.

FR7: NOTIFICATIONS & ALERTS

7.1. The system shall send notifications to users regarding upcoming reservations, cancellations, and modifications.

7.2. The system shall alert facility owners of new bookings, amendments, or cancellations.

NON-FUNCTIONAL REQUIREMENTS (NFR):

NFR1: MOBILE RESPONSIVENESS & COMPATIBILITY

1.1. The platform shall be optimized for mobile devices.

1.2. The platform shall support both iOS and Android devices.

NFR2: DATA MANAGEMENT & BACKUP

2.1. The system shall conduct routine backups of user information, reservation details, and other pertinent data.

2.2. The system shall store and encrypt sensitive user information securely.

NFR3: LANGUAGE & CURRENCY LOCALIZATION

3.1. The system shall primarily be in the Ukrainian language but should be designed to potentially support multiple languages.

3.2. The system shall predominantly support transactions in the Ukrainian hryvnia.