

**Apartment For Rental Application**

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**Software Requirements Specification**

**Document**

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Table of Contents

1. Introduction 2
2. System Analysis 3
3. Specific Requirements 3

3.1 Functional Requirements 3

3.2 Non Functional Requirements 4

3.3 Other Requirements 4

3.3.1 Software Requirements 4

3.3.2 Hardware Requirements 5

1. **Introduction**

Renting a flat is a type of business for renting an apartment or land, buildings and offices. Real estate agencies duties include, to give the property on rent or else to sell the property. Many people search for apartments for many purposes like residence, offices, and etc. Every individual wants his flat to be in the best location with the best facilities. People need to meet the agent in person, for checking the apartment details and also need to visit the location. It takes a long time to look for the desired location and desired type of apartment. Thus, The Gaspésie Systems Group wants you to develop an app to ease the process of finding an apartment for people living anywhere in Québec. The app allows the user to visualize efficient apartments for rent on a map. The user can then click any apartment to display additional information such as price, address, description, contact information and more. The user can also add a filter so that only apartments in a given price range are displayed. The user can also add apartments to a list to review them later. On the other hand, a renter must create an account if they wish to put an apartment for rent. This app can help you to get the best apartment by just sitting at home or anywhere. People can book their favorite property online just after a few clicks. In this system the Renter can add the apartment for renting purposes and users can book a property for rent. This system has two modules namely, Renter and User. Renter can add the property details for buildings, retail sites, flats, houses, bungalows. Users need to register and then login just by using credentials. When logged in, the user has access to an extra feature which allows them to add an apartment on the map with the information mentioned above. Logged in users can also update their profiles for contact information. Users can view the properties for rent or for buying purposes. He/ she can mark the favorite apartments and can also book appointments for visiting the viewed favorite places.

1. **System Analysis**

**1. Title:** Analysis and Design of an Apartment Rental Mobile Application

**2. The Problem Statement:** The Gaspésie Systems Group wants you to develop an app to ease the process of finding an apartment for people living anywhere in Québec.

(a) Overall goals of the app allows the user to visualize efficient apartments for rent on a map. The user can then click any apartment to display additional information such as price, address, description, contact information and more.

(b) Scope of the project IN-Scope: This will include only users and their requests regarding apartments. The Apartment Rental Mobile Application includes to find an apartment for people living anywhere in Quebec.

**3. Specific Requirements**

**3.1. Functional Requirements**

The system will be password-protected. Apartment Rental Application will be a multi-user system where every user must log in. This application needs to perform the following functions:

* Users need to register
* Users can login application with valid credentials
* Manage profile
* Forgot password
* Renter can add apartments with details which include (price, location, rooms, etc)
* Renter can edit apartments
* Renter can delete apartments
* Renter can see user requests
* Users can view apartments
* Users can select and view desired apartment details
* Users can search based on price criteria.

### **Enabling search filters**

Users want to find and apply for rental services simply and quickly. This is why you’ll have to provide an enhanced search feature. For instance, this app offers users a range of filters:

* location
* price range
* type of apartment
* number of rooms, bedrooms, and bathrooms

**3.2. Non-functional requirements**

Requirements on usability, reliability, performance, supportability, security, recovery, interface, implementation, operation, and legal. It describes aspects of the system that are concerned with how the system provides the functional requirements. They are:

* The system will be a Mobile-based application.
* Menus should be organized in a hierarchical manner (usability)
* The system will be password-protected. (Security)
* Maintain a user friendly environment that is visually appealing
* Easy to see and use navigation
* Maintain readable content
* The application should be reliable to perform the business , ie when a user performs some important action it should be acknowledged with confirmation.
* All the application data should be secured and be encrypted with minimum.
* Applications will be backed up daily. (Back up)

**3.3. Other Requirements**

**3.3.1. Software Requirements**

For developing the application the following are the software requirements

1. Android Development Tools

2. Eclipse IDE 3.4 or Higher(Resent Version)

3. Android SDK and Eclipse Plug-ins for Android ADT (Resent versions).

**Technologies and Languages used to Develop**

1. Android

2. Java

3. Front end : XML

4. Back end Database : Mysql

**Debugger and Emulator**

1. Android Dalvik Debug Monitor service

2. Android Emulator(Android Virtual Device)

**3.3.2. Hardware Requirements**

For developing the application the following are the Hardware Requirements:

■ Processor: Pentium IV or higher

■ RAM: 256 MB

■ Space on Hard Disk: minimum 512MB