Requirements Specification – DRAFT

CS 5376 Project

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# Purpose

This document contains the requirements specification for <project name>, a web application that provides an apartment locator/rental service using B2B technologies to integrate data from several providers (apartment complexes with apartments for rent), and providing a centralized apartment search facility for consumers.

# User Statement of Need

The customer requests the development of an apartment locator/rental service web site. The site will have an interface for providers (e.g. apartment complexes) to register and supply data on apartments available for rent. The site will have an interface for consumers to search for apartments. Search criteria will include location (city/state or zip code) and may include one or more of the following criteria: price range, number of bedrooms, number of bathrooms, pet policy. When the consumer selects an apartment to view, the site provides detailed data about the specific apartment chosen based on the provider data, and integrates with external providers to provide related content such as maps, address verification, neighborhood or city demographics, crime rates, nearby schools, nearby clinics and hospitals, and nearby restaurants. The site will also offer user registration so that consumers can log in. Once logged in, a consumer may request an appointment to visit an apartment (or apartment complex) or reserve an apartment rental.

## Functional Requirements

1. The system provides an interface for apartment rental providers to register their properties and list available apartments for rent.
2. The system stores provider registration data in a database.
3. Provider registration data includes the following attributes: company name; contact name, phone, and address.
4. The provider interface allows apartments to be listed with the following attributes: name of apartment complex, address (street, city, state, zip code), cost to rent, deposit required, number of bedrooms, number of bathrooms, pet policy, and general description.
5. The provider interface uses an external address verification service in order to verify the addresses of properties being listed.
6. The system provides a search interface for consumers to search for apartments available for rent, with the primary search based on location.
7. The search interface allows consumers to search on additional criteria such as price, cost to rent, number of bedrooms, number of bathrooms, and other attributes as necessary.
8. The system provides a detail view interface for consumers to view details about an apartment for rent.
9. The detail view interface integrates data from and/or links to external services, such as maps (e.g. Google maps); neighborhood or city demographics; crime rates; and nearby schools, clinics, hospitals, and restaurants.
10. The system provides an interface for consumers to register.
11. The system stores consumer registration data in a database.
12. Consumer registration data includes name, email address, current address, and phone numbers (daytime and evening).
13. The system provides an interface for registered consumers to log in.
14. The system provides an interface for consumers to request an appointment for visiting an apartment or apartment complex.
15. The system provides an interface for consumers to reserve an apartment for rent.
16. Consumers may perform the search function without registering or logging in.
17. Customers may perform the detail view function without registering or logging in.
18. Consumers must log in to the site in order to request an appointment to visit an apartment or apartment complex.
19. Consumers must log in to the site in order to reserve an apartment for rent.