Functional Requirements Document

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D001	Initial Documentation	A.Cleveland	7/19/21
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Cruise Control, Business Case

Web Development and Software Management Platform

Contents

Introduction

Cruise Control is a small electric scooter rental service that provides its services through a third-party medium. Currently all systems are provided manually without any form of management for its fleet. The purpose of this project is to create a more efficient and user-friendly system for all parties involved. An individual should be enabled to register as host and receive quarterly payments for utility space of each unit within his/her location (residence), customers should be able to receive access to each individual unit at each host location, and the admin should have access to manage all of the units in the fleet, regulate access to each unit in the fleet as well as address other services, such as analytics and more for the benefit of the company and its performance.

1.1 Purpose

Within the scope of this project, the functional requirements document will provide an overall description of the system as well as outlining the multiple sub-systems involved. The web development, software management system and accounts management system will work in tandem with one another and be described at a high-level throughout the document. The website portion of the project will provide the necessary interfaces as well as map flows customers to navigate to additional information regarding the services as well as download the software application to receive access to each scooter, the website will also provide any additional information about such services for potential host. The third-party fleet management application, Joyride will provide users with direct access to each unit within the fleet as well as provide the admin with the capabilities of managing such services. The final system, QuickBooks will be integrated with Joyride to provide the admin direct access to regulate and organize its accounts payable to each host.

1.2 Scope

Cruise Control is requesting to develop a web application that will be integrated with a third-party software management application. The proposal presents a cost-effective approach, provides scalable features for its customers, and enables a platform for its clients to launch as a host for the company. The system implemented should be designed as a web application integrated with an external fleet management application and processing system. By doing so a system can be implemented where each customer is 5 quick steps away from receiving access to any unit, each host is provided with a quick application process and a reliable payment process is implemented for each host, and an admin is equipped with all of the necessary features required to manage such system.

1.3 Background

Cruise Control is currently focused on streamlining its services and establishing a robust approach to generate more profit. As mentioned before the current system in place does not include any applications or external systems. As a result, the system prohibits the company from maximizing its return and potential partnerships with local and non-local host due to its current processes. The current business model can be optimized and the financial structure and refrain from being marginalized because of it.

1.4 References

Project Deliverables:	Scope of Work Document Current State Diagram Product Evaluation Cost Benefit Analysis Use Case Diagram Future State Diagram System Interface Map

1.5 Assumptions and Constraints

Project Assumptions: Business

- There are no major regulations or licenses required to perform such services.
- There are no limitations placed on such services within high-rise apartments.
- All account(s) updates will be made manually into QuickBooks

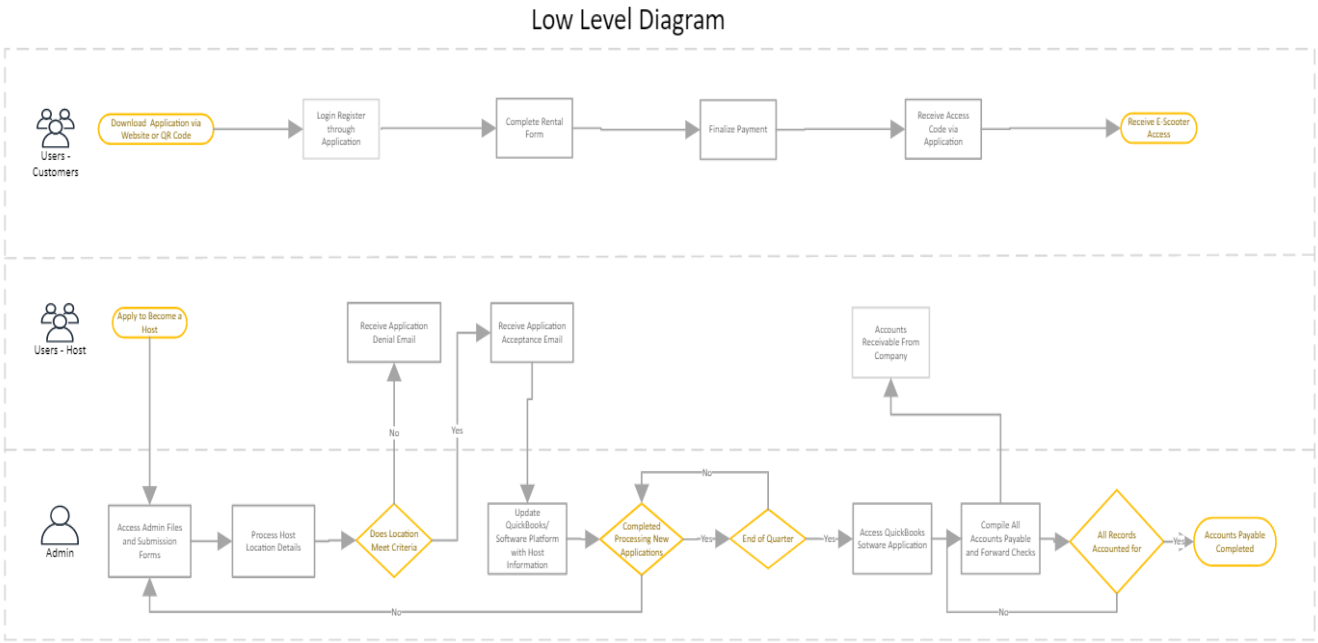
Technical

- Project will find a technical lead to assist with project deliverables.
- The cost of the software management system is cost effective to the business.
- The web developer is equipped with the skills required by the project.
- Payment Processing is best done through software management rather than external vendor such as pay-pal.
- Software management platform should be compatible with hardware.

Methodology

Functional Requirements

3.1 Context



3.2 User Requirements/Use Case

Website

The first development will be the construction of the webpages, which will provide ample amount of information and resources for both parties, potential host and its customers. In the process of providing a platform for potential host, the website will allow potential host to register and provide all of the information deemed necessary. (Logical Data Model/Data Dictionary)

With the information provided above the admin will then be able to process this information on the back end. The back end will be designed so that the admin can view all of the new accounts and submissions placed by each potential host where they will be stored to be processed. Once this act is complete the admin will research the potential properties and decide whether or not the potential property meets the criteria and is accepted or denied. Following each potential acceptance or denial submission, the admin will be able to check off

a box within his admin dashboard that will automatically send an email to the respondent about the decision that was made.

Each customer will also have direct access to additional information such as services, liability (sign before application can be downloaded) and download the software application as well. Aside from the responsibilities placed on the admin and his/her role within the system. A QR code will also be designed and made readily available so that each customer can directly receive access to the software management application where he/she may receive access to each unit. The QR code will send each user to the specific application page on the website so he/she may first sign a liability waiver.

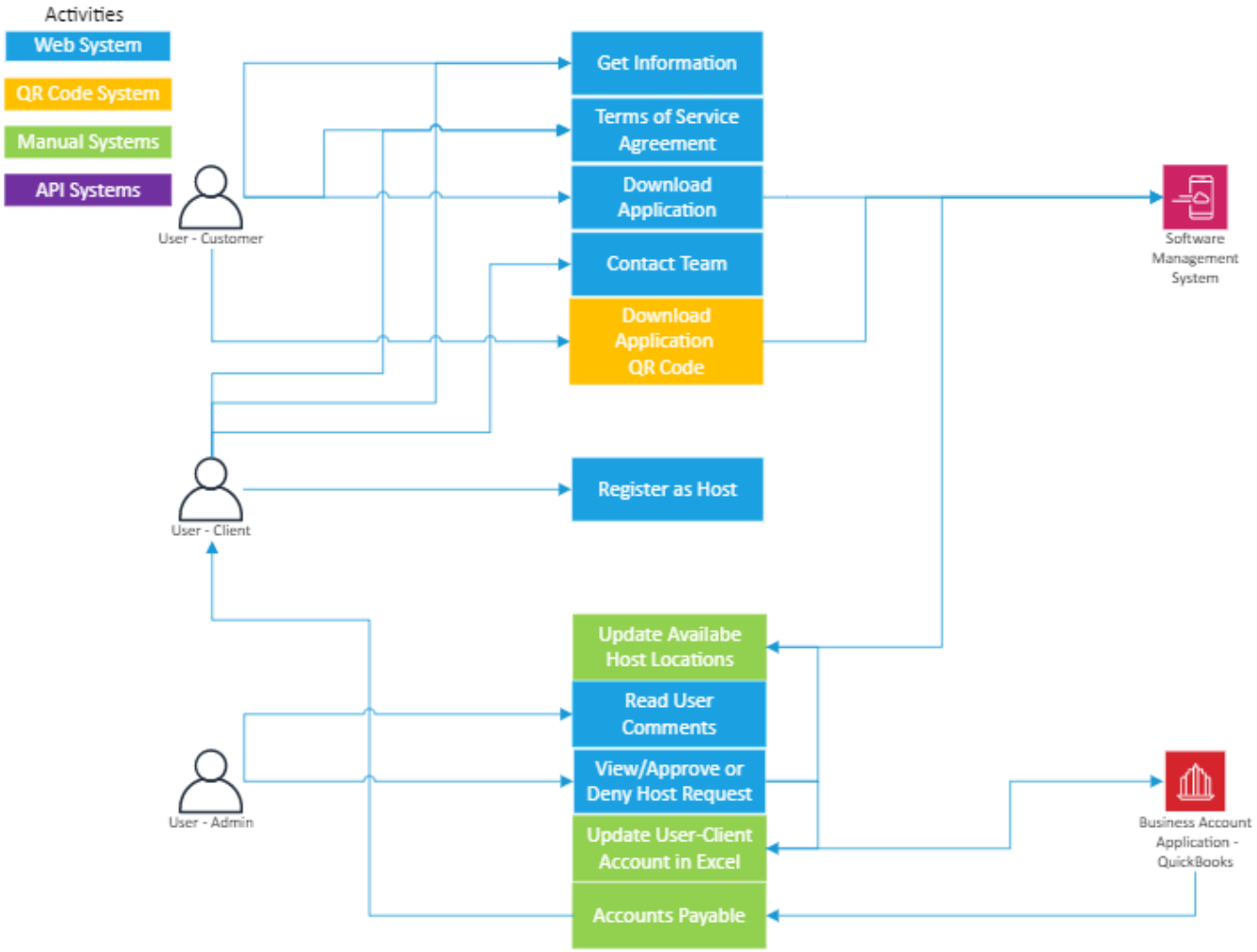
Software Management Application/QuickBooks

After the checkbox has been cleared the admin will be responsible for updating all of the information required in QuickBooks for personal account purposes and selected information into the software management application for the new host:

From this point forward, each user or customer will have direct access to the specific location and specific unit he/she is looking to rent.

QuickBooks

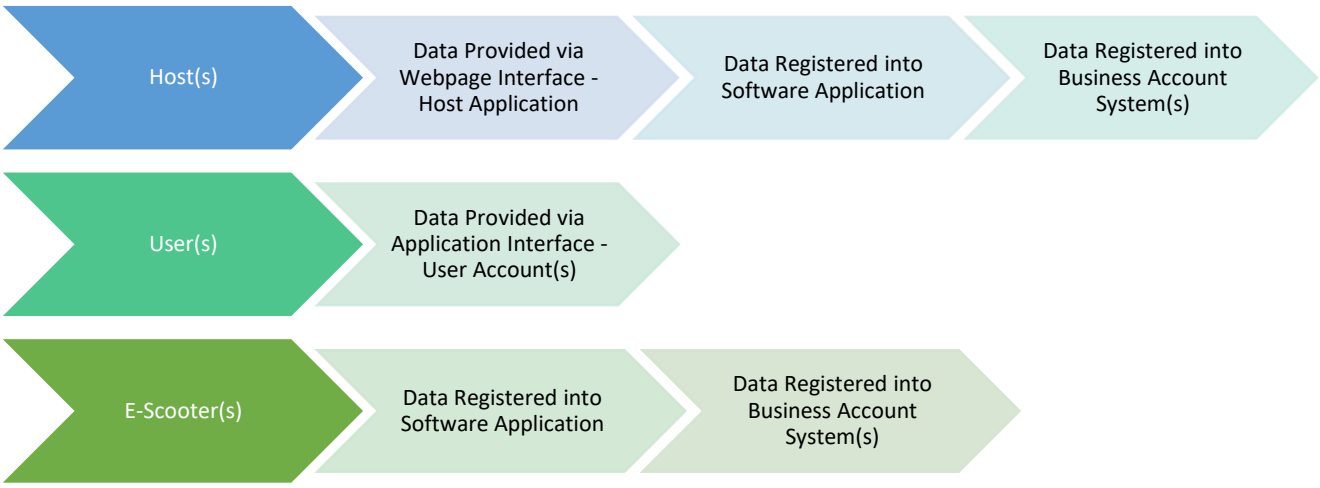
Once QuickBooks is updated with all of the information provided by the host, QuickBooks will also be used to address all accounts payable to each host on a quarterly basis.



***Data witheld from this point forward**

3.4 Logical Data Model/Data Dictionary

The following model represents the multiple categories from which the data will be collected and/or how the data will be managed and organized.



Data provided by Host via Website (Host Application)
> Host data transferred to Software Application
> (After Host has been accepted) Host data transferred to Business Account System

Data provided by User via Software Application (Personal, Payment)

The following data below is another representation of the aforementioned categories and will describe the data dictionaries in full detail.

Data Provided via Webpage Interface - Host Application		Data Registered into Software Application		Data Registered into Business Account System(s)	

Data Provided via Webpage Interface - Host Application

Data Provided via Webpage Interface - Host Application		Data Registered into Software Application		Data Registered into Business Account System(s)	

New User – Host Registrar

- First Name, Last Name
- Street Address (All Accounts will be paid here)
- City, State
- Zip code
- Number of Units Requested

Software Management Application

- First Name, Last Name
- Street Address
- City, State
- Number of Units (Assigned Number)

QuickBooks Accounting

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3.5 Functional Requirement

Other Requirements

4.1Interface Requirements
4.2 Data Conversion Requirements
4.3 Hardware/Software Requirements
4.4 Operational Requirements

Appendix – Glossary