Software Requirements Specification

Version 1.0

May,21,2020

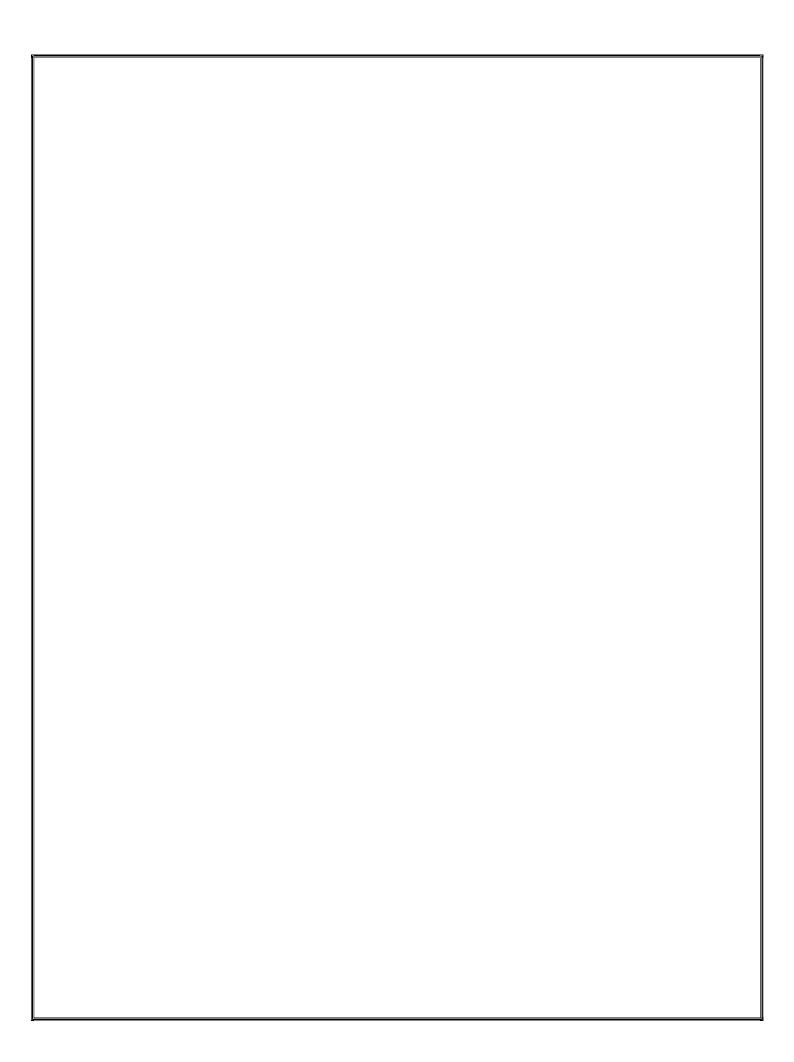
FLATS RENTING MANAGEMENT SYSTEM

Soulaf Ayoush Yara Mayoos

Submitted in homework Of the requirements of CS 310 Software Engineering

Table of Contents

Table of Contents		
1.0. Introduction		
1.1. Purpose		
1.2. Scope of Project		1
1.3. Glossary		1
1.5. Overview of Document	t	2
2.0. Overall Description	on	3 2.1
•	s Specification	
*	Erro	
2.2.2 Customer Use Cas	se	4
2.2.3 Update customer	:Use Case	Error! Bookmark not
defined.		
2.3 User Characteristics	3	6
2.4 Non-Functional Req	quirements	6
3.0 Requirements	Specification	8
	Requirements	
	nents	
=		
3.2.2 renting	Erroi	r! Bookmark not defined.
	ilability Err	
	Er	
3.2. 5 Generating Rece	eipt Er	ror! Bookmark not defined.
3.3 Detailed Non-Function	onal Requirements Er	ror! Bookmark not defined.
3.3.1 Logical Structur	re of the Data Er	ror! Bookmark not defined.



1.0. Introduction

1.1. Purpose

This document provides a definition of the website system for renting flats at the beach in summer

1.2. Scope of Project

This system will provide 3 scopes:

- 1- for the customer to add his renting
- 2- the admin for website to manage renting
- 3- the admin for flats to confirm the renting

1.3. Glossary

Term	Definition	
Flats	This is the product that the flats will give to the customer	
	And also event	
admin	Who is the manager for website to manage flats	
Database	Collection of all the information monitored by this system.	
Flats admin	This the person that he add flats and events and manage	
	products from his control panel	
Field	A cell within a form.	
Reader	Anyone visiting the site to read articles.	
Review	A written ratings about the appropriateness of a flat; may	
	include suggestions for improvement.	
customer	A person that he rented the product flat.	
Software Requirements	A document that completely describes all of the functions	
Specification	of a proposed system and the constraints under which it	
	must operate. For example, this document.	
Stakeholder	Any person with an interest in the project who is not a	
	developer.	
User	flats admin or customer or admin	

1.4. References

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.

<i>1.5.</i>	Overview	of Document
1.0.	OFCIFICIT	of Document

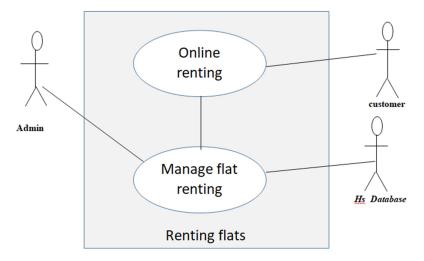
The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language

2

2.0. Overall Description



2.1 System Environment

The renting system has three active actors and one cooperating system. The customer, admin, or flats admin accesses the online renting through the Internet. Any admin communication with the system is through control panel. The customer accesses the entire system directly.

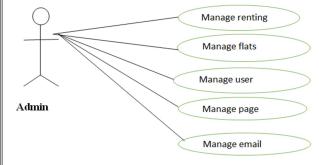
2.2 Functional Requirements Specification

This section outlines the use cases for each of the active readers separately. The reader, the author and the reviewer have only one use case apiece while the editor is main actor in this system.

2.2.1 admin Use Case

In case of multiple admin, this term refers to the *principal admin*, with whom all communication is made.

Use case: admin use case Diagram:



Brief Description

The admin confirms the renting.

Initial Step-By-Step Description

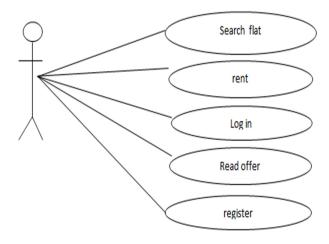
Before this use case can be init. iated, the admin has already connected to the Online Renting System.

- 1. The admin chooses the reservation to confirm it.
- 2. The admin click on confirm the email will send to customer that your flat confirmed
- 3. The System generates and sends an email acknowledgement.

Xref: Section 3.2.2, admin

2.2.2 Customer: Use case

Diagram:



Brief Description

The customer accesses the Online Renting Website, searches for an flat and reserve it.

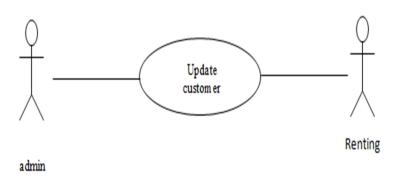
Initial Step-By-Step Description

Before this use case can be initiated, the customer has already accessed the Online renting system.

- 1. The customer chooses to search by price, location, or keyword.
- 2. The system displays the choices to the Customer.
- 3. The customer selects the flat or event desired.
- 4. The system presents the details of the order to the customer.

2.2.3 Update cutomer: Use case

Diagram:



Brief Description

The admin enters a new customer or updates information about a current customer.

Initial Step-By-Step Description

Before this use case can be initiated, the admin has already accessed the main page of the web Manager.

- 1. The admin selects to Add/Update customer.
- 2. The system presents a choice of adding or updating.
- 3. The admin chooses to add or to update.
- 4. The system links to the online renting Database.
- 5. If the admin is updating a customer, the system and presents a grid with the information about the customer; else the system presents list of members for the admin to select a customer and presents a grid for the person selected.
- 6. The admin fills in the information and submits the form.
- 7. The system verifies the information and returns the admin to the Manager main page.

Xref: Section 3.2.4, Add customer; Section 3.2.5, Update Person

Brief Description

The admin flats enters information about an existing flat.

Initial Step-By-Step Description

Before this use case can be initiated, the admin flats has already accessed the main page of the Manager.

- 1. The admin flats selects to *Update* flats.
- 2. The system presents s list of active flats.
- 3. The system presents the information about the chosen flats.
- 4. The admin flats updates and submits the form.
- 5. The system verifies the information and returns the admin flats to the Manager main page.

Xref: Section 3.2.6, Update flats Status

2.3 User Characteristics

The customer is expected to be Internet literate and be able to use a search engine. The main screen of the

Renting online system will have the search function and a link to "flats details Information."

The customer and admin flats are expected to be Internet literate and to be able to use chat.

The admin is expected to be Windows literate and to be able to use button, pull-down menus, and similar tools.

The detailed look of these pages is discussed in section 3.2 below.

2.4 Non-Functional Requirements

- The system must ensure that all the transferable data as for examples customers credit or debit card number, CVV Code, e-payment should be done in secured connection.
- The system must be able to handle multiple transactions a time.
- The system must provide customers 24*7 hours online renting service.
- The system should support almost all the browsers (Internet Explorer, Safari, Chrome, and Firefox).
- The system should be able to convert the price from R.S to USD.
- System should send the newsletter about ongoing promotions or deal to registered customers.
- Customers need to cancel the renting before 24 hrs. Otherwise their credit card will be charged for one day.
- In promotion time the system will charge credit card promptly.

3.0. Requirements Specification

3.1 External Interface Requirements

The only link to an external system is the link to the flats Renting (HB) Database to verify the membership of a customer. The admin believes that a admin flats has to confirm the renting. The HB Database fields of interest to the flats renting System are member's name, membership (ID) number, and email address (an optional field for the HB Database).

3.2 Functional Requirements

- The system supports customers renting and able to modify them
- Customers can search based on flats, apartment,
- When a customer search for flats, apartment, and the search result must contain flats or apartment information (Address, Ratings, and Price) and also its availability within choosing check in and checkout date.
- Customers able to cancel their renting from their account.
- Staffs able to edit customers renting information (updating check in, check out, flat preferences bed preferences and also cancelling renting).
- Customers can book online and pay with credit or debit card.
- The system must send renting confirmation email after successful payment.
- Customers can write reviews about flats and apartment and also rate them.
- Customers able to check their renting status from their individual account.
- Customers can send feedback or call the company for renting purposes.

3.2.1 Search flat

Use Case Name	Search flat	
XRef	Section 2.2.1, Search flat	
Trigger	The customer assesses the flats renting Website.	
Precondition	The Web is displayed with grids for searching.	
Basic Path	1. The customer chooses how to search the Web site. The choices are by price, by Category, by location, and by Keyword.	

	 If the search is by Keyword, the system creates and presents an alphabetical list of all Keyword in the database. In the case of a flats with multiple flats, each is contained in the list. The customer selects an flat. The system creates and presents a list of all flat by that location in the database. The customer selects an flat. The system displays the details for the flat. The customer selects to book the flat or to return to the flat
	list or to the previous list.
Alternative Paths	In step 2, if the customer selects to search by category, the system creates and presents a list of all categories in the database. 3. The customer selects a category. 4. The system creates and presents a list of all flats in that category in the database. Return to step 5. In step 2, if the customer selects to search by keyword, the system presents a dialog box to enter the keyword or phrase. 3. The customer enters a keyword. 4. The system searches the details of flats with that keyword and creates and presents a list of all such flats in the database. Return to step 5.
Postcondition	The selected flat is reserved.
Exception Paths	The customer may abandon the search at any time.
Other	The categories list is generated admin.

3.2.2 Renting:

Name:	Renting	
Actor:	Customer	
Description:	Describe the process used to add a new renting	
Successful Completion:	1. Customers can book	
	2. Staffs enter the customers details into the database	
Alternative:	None	
Precondition:	Customers registered as a member	
Post condition:	Flat is booked by customer	
Assumption:	None	

3.2.3 Update Flat Availability

Name:	Update Flat Availability	
Actor:	Staff	
Description:	Can update the availability of flats's flat	
Successful Completion:	1. New availability for flats's flat	
	2. Staffs enter the available flat details into the database	
Alternative :	None	
Precondition:	Staffs update the system entering new flat availability	
Post condition:	Customers can see the latest availability of flats's flat	
Assumption :	None	

3.2.4 Payment

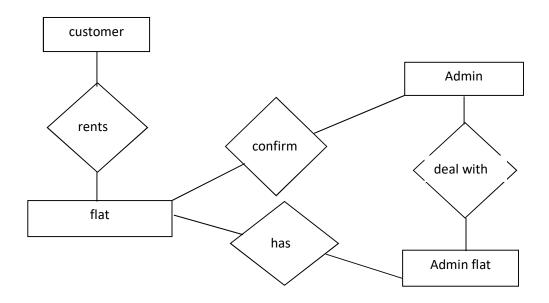
Name:	Payment	
Actor:	Customer	
Description:	Describe the process of payment through the system	
Successful Completion:	1. Customers will receive the invoice	
	2. Staffs enter the customers payment details into database	
Alternative :	Pay after arrive into the destinations	
Precondition:	Customers registered as a member	
Post condition:	Flat is booked by customer	
Assumption:	None	

3.2.5 Generating Receipt

Name:	Generating Receipt
Actor:	Staff
Description:	Describe the process used to generate the renting details
Successful Completion:	1. Staff can check the renting details
	2. Staffs will keep the copy of the generated receipt
Alternative:	None
Precondition:	
Post condition:	Flat is booked by customer
Assumption:	None

3.3 Detailed Non-Functional Requirements

3.3.1 Logical Structure of the Data



The data descriptions of each of these data entities is as follows:

Customer Data Entity

Data Item	Туре	Description	Comment
Name	Text	Name of principle Customer	
Email Address	Text	Internet address	
Phone	Integer	Number of Customer	
FlatNum	Integer	Number of flat which has rented	

flat Data Entity

Data Item	Туре	Description	Comment
Name	Text	Name of principle author	
ID	Integer	ID number of flat	
Address	Text	Internet address	
Price	Integer	Price of flat	
Status_	boolean	Flat is Empty or not	

Admin Data Entity

Data Item	Туре	Description	Comment
Name	Text	Article entity	
ID	Integer	ID number of admin	
Email	Text	Reviewer entity	
Register	Text	Information of customer	

Admin Flat Data Entity

Data Item	Туре	Description	Comment
Name	Text	Article entity	
ID	Integer	ID number of admin flat	
Email	Text	Email Address	
Manage_flat	Text	Manger of flat	