‘t Sloepke B.V.

User Requirements Specifications

Ismail Chbiki

Synthesis Assignment

SUPERVISED BY: professor name

Table of Contents

[User Requirements Specifications 2](#_Toc89090685)

[ Non-Functional Requirements 2](#_Toc89090686)

[ Functional Requirements (Web App) 2](#_Toc89090687)

[ Use Cases 3](#_Toc89090688)

[ Functional Requirements (Desktop App) 6](#_Toc89090689)

[ Use Cases 6](#_Toc89090690)

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# User Requirements Specifications

## Non-Functional Requirements

N-FR

Performance, Maintainability, Security, Scalability, extendibility, etc.

## Functional Requirements (Web App)

ID: FR A-01

Title: Placing a Reservation

Description:

Clients should be able to place a reservation by selecting the preferred options and providing their contact details

ID: FR A-02

Title: Reservation Quote Displaying

Description:

After the reservation is made, a summary quote should be created showing the chosen options and clients contact details (a unique ID for the quote is communicated to the client)

ID: FR A-03

Title: Quote Access

Description:

Clients should be able to access their created quote containing their chosen preferences and contact details (by providing the quote unique ID)

Constraint: Quote should exist

ID: FR A-04

Title: Quote update

Description:

Clients should be able to update the quote by providing their new preferences and\or contact details (by providing the quote unique ID)

Constraint: at least 7 days before rental day

ID: FR A-05

Title: Quote deletion

Description:

Clients should be able to delete/cancels the quote by providing the quote unique ID

Constraint: at least 7 days before rental day

ID: FR B-01

Title: deposit an amount for the boat rental options

Description:

On the renting day, client must deposit an amount of money for the boat rental options mentioned in the provided appendix

Constraint: reservation is made and quote is created

ID: FR C-01

Title: Final payment calculation

Description:

The final payment is calculated and terminated

## Use Cases

ID: FR A-01 – Placing a Reservation

ID: FR A-02 – Reservation Quote Displaying

Actor: Client

Main Success Scenario:

1. Client opens the application
2. Dashboard is shown
3. Client requests to view rental information
4. System displays boats and items’ rental information
5. Client presses make a reservation
6. A new form opens and client selects their preferred options and confirms
7. System requests for contact details
8. Client fills in their contact details
9. System displays full details (contact details and selected options) and requests for client’s signature
10. Client provides signature (via a checkbox) and confirms
11. System confirms the reservation was successful and stores it

Extensions:

6.

1. Client cancels
2. End of use case

8.

1. Client cancels
2. End of use case

10.

1. Client cancels
2. End of use case

ID: FR A-03 – Quote Access

Actor: Client

Pre-condition: The app is open

Main Success Scenario:

1. Client provides the quote (reservation) ID
2. System displays the quote with all the reservation and contact information

Extensions:

1.

1. Incorrect ID
2. End of use case

ID: FR A-04 – Quote Update

Actor: Client

Pre-condition: The app is open

Main Success Scenario:

1. Client provides the quote (reservation) ID
2. System displays the quote with all the reservation and contact information
3. Client presses on update quote
4. System displays the quote with all the reservation and contact information
5. Client fills in the new details and confirms
6. System displays the quote with all the reservation and contact new information and requests for signature
7. Client provides signature (via a checkbox) and confirms
8. System confirms the reservation was successfully updated and stores it

Extensions:

2.

1. Rental day is in less than 7 days
2. End of use case

5.

1. Client cancels
2. End of use case

7.

1. Client cancels
2. End of use case

ID: FR A-05 – Quote Deletion

Actor: Client

Main Success Scenario:

1. Client provides the quote (reservation) ID
2. System displays the quote with all the reservation and contact information
3. Client presses on delete quote
4. System requests client’s confirmation
5. Client confirms
6. System displays the quote deletion confirmation

Extensions:

2.

1. Rental day is in less than 7 days
2. End of use case

5.

1. Client cancels
2. End of use case

ID: FR B-01 – Deposit an amount for the boat rental options

Actor: Employee

Main Success Scenario:

1. Employee provides the quote (reservation) ID
2. System displays the quote with all the reservation and contact information
3. Employee requests to make a deposit
4. Employee makes the deposit and confirms
5. System displays confirmation message of the made deposit

Extensions:

4.

1. Deposit is lower than the expected amount
2. System requests the expected amount
3. Employee provides the expected amount
4. Returns to MSS 5

ID: FR C-01 – Final payment calculation

Actor: Employee

Main Success Scenario:

1. Employee provides the quote (reservation) ID
2. System displays the quote with all the reservation and contact information
3. Employee requests to Finalize the payment
4. System requests a confirmation to finalize the payment
5. Employee confirms
6. System displays confirmation message of successful payment finalization

## Functional Requirements (Desktop App)

ID: FR AA-01

Title: Add new item

Description:

Employee should be able to add new items to the company’s items inventory

Constraint: Employee must be admin

ID: FR AA-02

Title: update Items

Description:

Employee should be able to update the company’s items inventory

Constraint: Employee must be admin

ID: FR AA-03

Title: Delete Items

Description:

Employee should be able to delete items from the company’s items inventory

Constraint: Employee must be admin

## Use Cases

ID: FR AA-01 – Add new item

Actor: Employee

Pre-condition:

* The employee is logged in
* The employee is in the “Add new item” form

Main Success Scenario:

1. Employee fills in the new valid data for the new item and confirms
2. System displays a message of successful new item addition

Extensions:

2. In case of invalid data

1. System displays a guiding message of the reason of failure and invites employee for correction
2. Employee provides valid data and confirms
3. Go back to use case 2

ID: FR AA-02 – update Item

Actor: Employee

Pre-condition:

* The employee is logged in
* The employee is in the “Admin” form

Main Success Scenario:

1. Employee presses to manage inventory
2. System displays items inventory
3. Employees selects between two options (boats/optional items) of what needed to be updated
4. System displays a list of items for the selected option
5. Employee selects an item and presses “Update item”
6. System displays the item’s information
7. Employee provides new data for the selected item and confirms
8. System displays a message of successful items update
9. Employee goes back

Extensions:

8. In case of invalid data

1. System displays a guiding message of the reason of failure and invites employee for correction
2. Employee provides valid data and confirms
3. Go back to use case 8

ID: FR AA-03 – delete Item

Actor: Employee

Pre-condition:

* The employee is logged in
* The employee is in the “Admin” form

Main Success Scenario:

1. Employee presses to manage inventory
2. System displays items inventory
3. Employees selects between two options (boats/optional items) of what needed to be updated
4. System displays a list of items for the selected option
5. Employee selects an item and presses “Delete item”
6. System displays a new form requesting the employee to confirm action
7. Employee confirms
8. System displays a message of successful item deletion