

System Requirements Document

BoatDock Application

Group 4

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Section 1 Introduction:

This Requirement specification document for a Boat Dock App for ABC group (ABC). ABC is a new in Sweden IT market. A company working on sustainable software system including ecommerce, sales and marketing. The proposed Boat Dock App management system will provide customer and moor owner to publish advertisement and moor dock place for customer, the user need to publish Add, search advertisement, browsing the moor catalog and ability to complete mooring hiring on-line with payment system. This document describes the scope, objectives and goal of the Boat Dock App. In addition to describing non-functional requirements, this document models the functional requirements with use cases, interaction diagrams, and class models. This document is intended to direct the design and implementation of the Boar Dock system.

1.1 Propose:

The purpose of this document is to provide all parties involved with a clear understanding of the scope of that is needed for the ABC Company– Boat Parking Web App. Upon ABC Company internal approval and signoff, this document will serve as an official project implementation document. When necessary, the document may be updated upon agreement. This document is based upon the following points that define the scope of the project. These points are critical to the overall Boat Parking Web App project schedule and budget. They are reflected in the intermediate project deadlines established by the project team. The following is a list of the major project points to be addressed by both the IT project team and ABC Company personnel.

Main functionality of Boat Mooring App:

- Possibilities to registration boat with length, width, height
- Search for the area for moor and must be specified price, distance time date and length, width and depth if not registered.
- Show available alternatives that are compatible with boat
- Information about the mooring price ,distance, revenue
- Costumer option to review the experience with rating
- In App Payment via various gateways
- System should be secure with login with OTP authentication
- Chat Option between Mooring Owner and customer

1.1 Scope:

The Scope of this system is an interactive web based system that support the marketing of location based Boat mooring and hospitality industry of Sweden and Nordic region. The system support directly redirect customer to mooring dock and its existing sales agent network.

The system invoices and account billing are not part of this project. The mobile app is also not part of BoatDockApp. The existing manual system will be replaced by BoatDockApp. In addition, changes to the logical and physical design of the databases are expected and cost will bear by the client. A web search engine and language translator will be obtained as purchased components for the BoatDockApp. Their internal details are not part of this project. Issues of website authentication and security are not part of this project.

1.2 Definitions, acronyms, and abbreviations

Term	Meaning
ABC Company	ABC Company LLC: software company who is developing the application
Moor Owner	Boat Parking place owner
RE	Requirement Engineering
MC	Master card Scheme
Visa	Visa Card Scheme
SOA	Service Oriented Architecture
SOAP	Simple Object Access Protocol
ORM	Object Relational Mapping
OTP authentication	One time password/ two factor authentication code
Sale agent network	Sales and marketing persons
Available alternatives	Digital marketing

1.3 Overview

The above document gives the details specification for the BoatDockApp.

Section 2: Stakeholder Identification and analysis: this section we lists the client for development the system. List of all stockholders and the group of interest of importance.

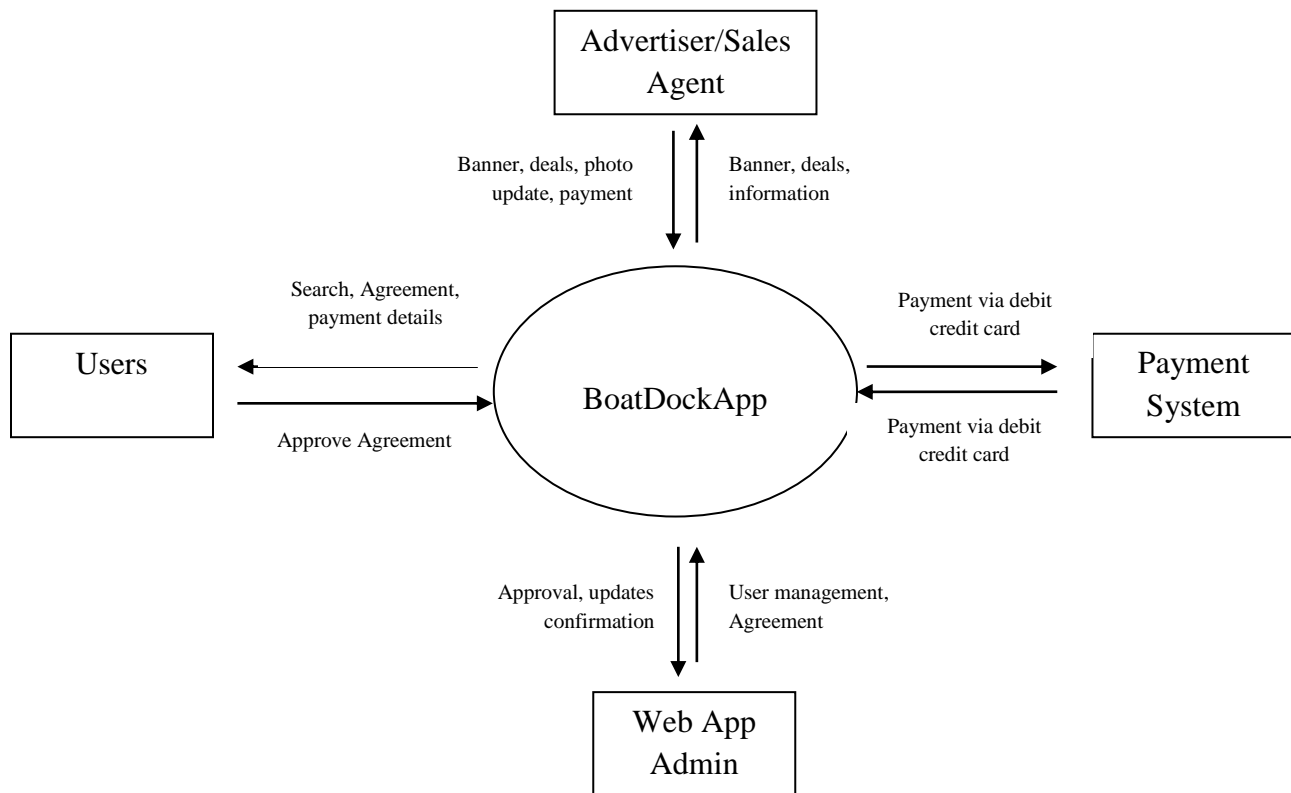
Section 3: Requirements Elicitation Techniques: this section lists the requirement elicitation techniques that you used and brief summary of particular technique.

Section 4: System Requirement: this section states the requirement at different levels domain and product design with data functional and quality in each level.

1.4 Goals of the product

- The system shall allow for online rent a mooring place either by customer or sales agent /moor owner. This will eliminate the current delay between their decision to customer and the location owner this will reduce the time.
- Mooring place detail and description update within 30 seconds of the database being updated by the product owner. This will reduce the number incorrect location with Google Map API and this will also eliminates the redundant update of customer information.
- The system shall display all information of location, mooring place and price and other facilities associated with company. This feature will improve service by reducing the mean number of web pages a user must navigate per session to 10000 / user.
- The system allows ABC Company to view all owner of moor location. An customer / moor owner should able to contact to ABC company in one call/email to save time for correct any information
- The system should provide accounting with actual amount of transaction. This will improve the customer service reducing billing complain by 100% in correcting inaccurate account. Reports facilities provide for future uses.
- The system provides accurate location and places and agreement details so this will allow the order to be processed in intently and details updated within 10 seconds.

1.5 Context diagram for the system



Section 2 Stakeholder Identification and analysis

We had an interview with our customer in which we gathered customers' needs and customer expectations for the application. Through this, we analyzed and understand different type of user for our web application. The lists of stakeholders are listed below:

2.1 User category:

Different type of users in our system:


- **Travelers:** The user group travel on their personal boat around the cities and want to rent a mooring place for a short stay. These user need a mooring place near a hotel, restaurant and grocery store where they can buy items, rest and eat. The user can register and login as a customer to rent a mooring place for a short interval of time. Travelers can talk to the mooring place owner through chat after applying for the rental place in the application.
- **Mooring place owners:** the user category has a place to rent out for mooring place. The user can register and upload details of the mooring place he wants to rent out, and duration availability of the mooring place.
- **Harbor owner:** Harbor owner have a place of a big mooring place for rental where he has multiple mooring place for the boats. Big and small boats are moored in the harbor.

- **Boat owner:** Boat owner is a living resident in a city and wants a mooring place to his boat for a yearly basis.
- **Water Event Organization Company:** Water event Organization Company's a company that organizes water sports and events for a particular season in a year. The company rents us multiple places for boats.

Harbor Owners, Mooring place owners are stakeholders which give out the place for rent and act as tenant. Boat owner, Water Event Organization Company, travelers are the stakeholders which register for applying for a mooring place to rent.

We also developed personas as to identify the user needs.

Elias Ebba



Brief description
Elias is a tech guy. He is software engineer working in Microsoft. He is a good problem solver and lives in Denmark Copenhagen.

Skills
Microsoft technology
Leadership skills
Programming language
Negotiation skills
Focus of efficiency of product
Diver
Swimmer, Sailer

Persona Main Job (Main goals)
He is a well known software engineer in Microsoft and has a keen interest in Sailing. He occasionally love to go out for sailing, diving, parasailing and sea surfing. He need a place to moor his boat so he can use it for leisure time

Personality
Calm
Intelligent
No smoking person
Animal right activist
Friendly behavior
Sea enthusiastic
age:35

Interests
Technology and Science
Swimming
Diving
Sailing
Meet diverse group of people with different background

Tech savviness
He is sound technical knowledge in different domains i.e CRM, ERP
He is tech guy and need less app training to use the application

Gains
He can provide his boat dimensions before he can register in the application


Pains
He can buy a new boat which have new dimensions than his old boat and had to change the mooring place.

Elias Ebba wants to rent a yearly place for this boat. He want a place near to his home so he want to rent a place yearly to ride around in weekend

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Bjorn Ulf

Bjorn Ulf live in Karlskrona. We has a extra mooring place for to give for rent to generate some income from the place.



Brief description
Bjorn Ulf lives in Kalmar. He works in car automation department in a car company in Kalmar.

Skills
Microsoft technology
Leadership skills
Programming language
Negotiation skills
Focus of efficiency of product
Diver
Swimmer, Sailer

Persona Main Job (Main goals)
He works as car automation in a Volkswagen. He also works in the electric cars department and loves to have create products which emit less carbon. Bjorn also live near the sea and had 2 mooring places for rent to get extra money

Personality
Funny
Chain Smoker
Friendly
married
Has one dog
Nature loving person
age: 30

Interests
Car engines
Carbon neutral
Electrical Cars
Swimming
Have a deep connection with close friends

Tech savviness
He is averse technology gut and read tech blogs. He knows the smart phone features and can easily use mobile applications


Gains
He can provide his boat dimensions before he can register in the application
Can see the income of the mooring places

Pains
No one applies for the mooring place and his mooring creates loss

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Nordic Water Sports AB

Nordic Water Sports AB is a company in Malmo. In summer season, the company organizes water sports events like jet skis, swimming, scuba diving.



Brief description
Ali Water sports is company in Malmo. The company rents mooring places and harbor in different sea cities for organizing the water sports

Skills
Microsoft technology
Leadership skills
Programming language
Negotiation skills
Focus of efficiency of product
Diver
Swimmer, Sailer

Persona Main Job (Main goals)
He works as car automation in a Volkswagen. He also works in the electric cars department and loves to have create products which emit less carbon. Bjorn also live near the sea and had 2 mooring places for rent to get extra money

Personality
Entertaining
Energetic
Aimed
Caring

Interests
Water diving
Scuba diving
jet skis
Party yacht ships

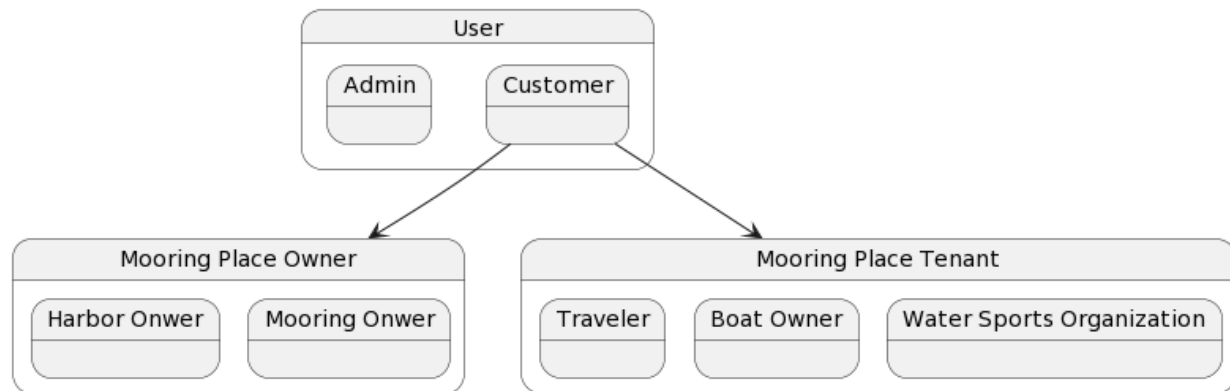
Tech savviness
Had many experience in using the modern technology and works closely with the mooring agency

Gains
The company can provide the number of places by square feet in the application and also book harbor to get the places

Pains
if there are less available places than required places. the places area could change according to their customer needs

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The total categorized into is defined below:



Section 3 Requirements Elicitation Techniques

3.1 Elicitation Technique 1 (Observations):

Through initial requirement one-pager, we started to observe the business requirements of the system. We understand the stakeholder and observed how the system and business value would be developed in the system.

Why we used observation:

After getting project description one-page, we booked a face-to-face meeting with project owners to understand and get requirements. Before taking the interview, we understand the system and made some queries to better understand the system.

Requirements we get from this technique:

The list of requirements we get from this technique are:

- DL1,DL4,FR1,FR2,FR5,FR7,FR10

3.2 Elicitation Technique 2 (Interview):

We interview the product owners on 8 November 2022. We asked about the product business aspects and asked queries which we developed through observation elicitation technique. The interview was done in structured way, the agenda and the process of the interview was determined by us.

Why we used this technique:

Initially, we developed some queries in order to better understand the needs of the business domain. As we know using observation and interview technique together would provide us better

understanding of the system and resolve our questions. Through interviews, we also defined the scope of the system by asking the product owners.

Requirements we get from the system:

- DL2,DL3,FR3,FR4,FR6,FR8,QR1,QR2

3.3 Elicitation Technique 3 (Brainstorming):

After completing the interviews, we elicit the business level, domain level and planned 2 brainstorming session of one hour in which every group member is involved. We had a session of 40 minutes in which we discussed the solutions from the requirements and developed the design of the system.

Why we used this technique:

After conducting the interview from the product owner, we needed to brainstorm the possible solutions of the requirements and design a model of the application.

Requirements we get from the system:

- DL5,DL6,FR10,FR14

3.4 Elicitation Technique 4 (Reverse brainstorming):

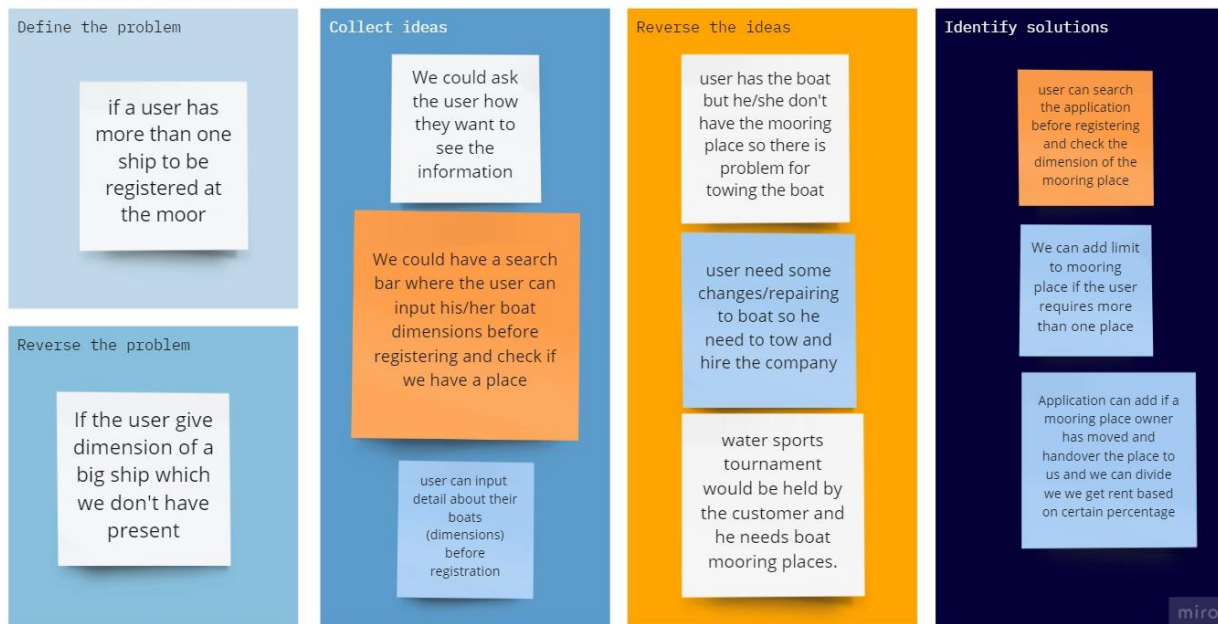
We did a session as teams in reverse brainstorming for our project in order identify the potential problem and address them and think about the possible solutions.

Why we used this technique:

We used this technique because we have a large system which are many user types. To remove any conflict of the user group's requirements, we identified the issue through reverse brainstorming.

Requirements we get from the technique:

- FR9,FR11,FR12,FR13,QR4,QR5,QR6,DL4,DL2



Section 4 System Requirements

We used different techniques for system requirements. Through these techniques, we developed requirements of different levels.

4.1 Domain Level Requirements:

The Product shall support the following business user activities:

DL1:Support chat box for interaction between tenant and mooring place owner.

DL2:An interactive map from where user can search the areas and mooring places in the area along with restaurants and hotels

DL3:In-app payment through linked bank to handle rent from the users.

DL4: Mooring tenant able to give length, width and height of their boat in registration.

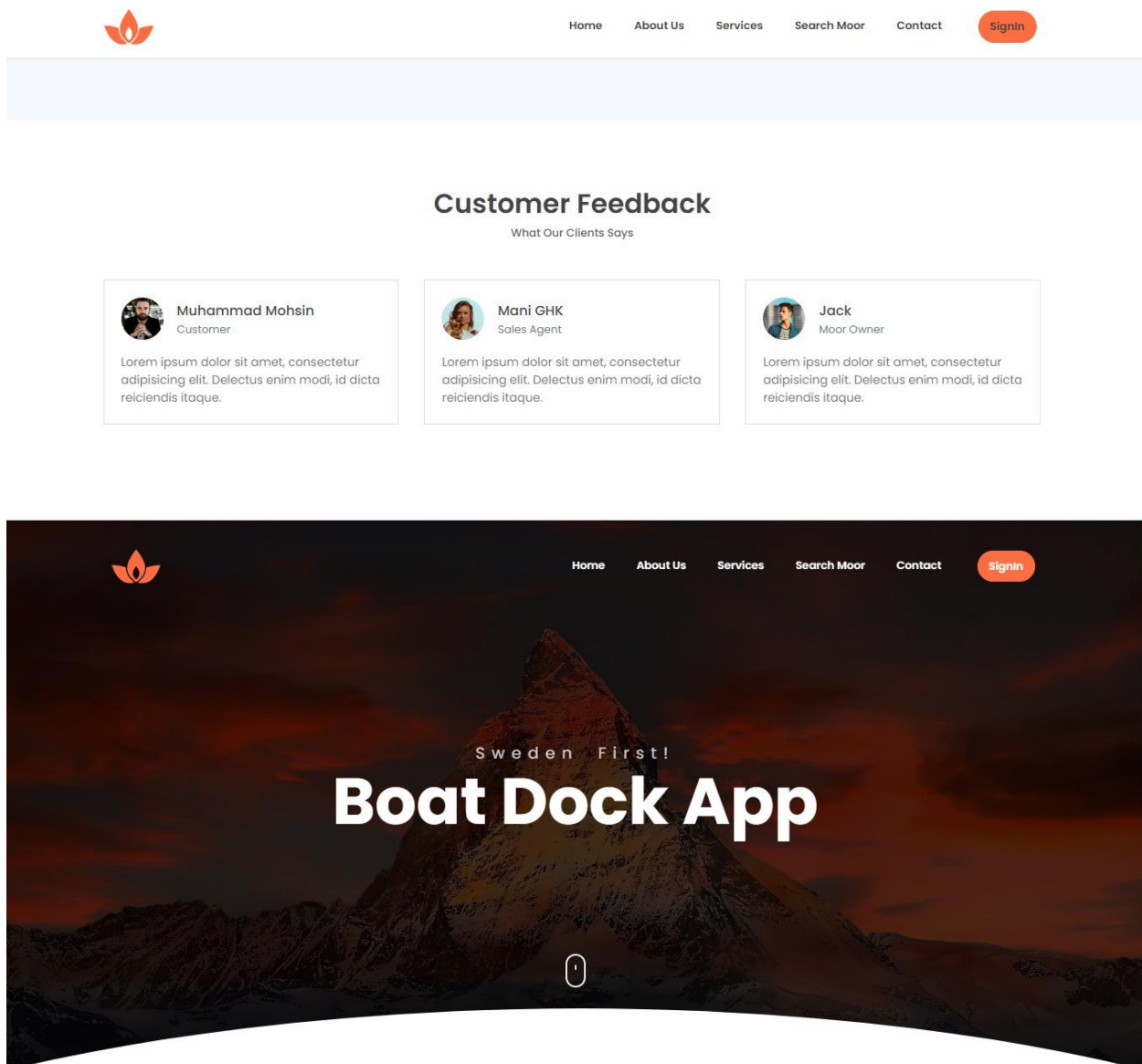
DL5:Highlighted mooring places where hotels and restaurants are more rated


DL6: Tenant to rate the experience of the mooring place and mooring place owner to rate the tenant

4.2 Functional Product Level Requirements:

We did 2 task descriptions and 2 use cases in order to define the functional product level requirements and added screens and prototypes

Screens and prototypes:








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REG Company

Karlskrona


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Our Service

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01

Karlskrona Location 1

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02


Ronneby Location 2

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03

Blekinge Location 3

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Address
Kolonevegen 100ID ,Karlskrona

Email
info@boatdocapp.com

Search

Area

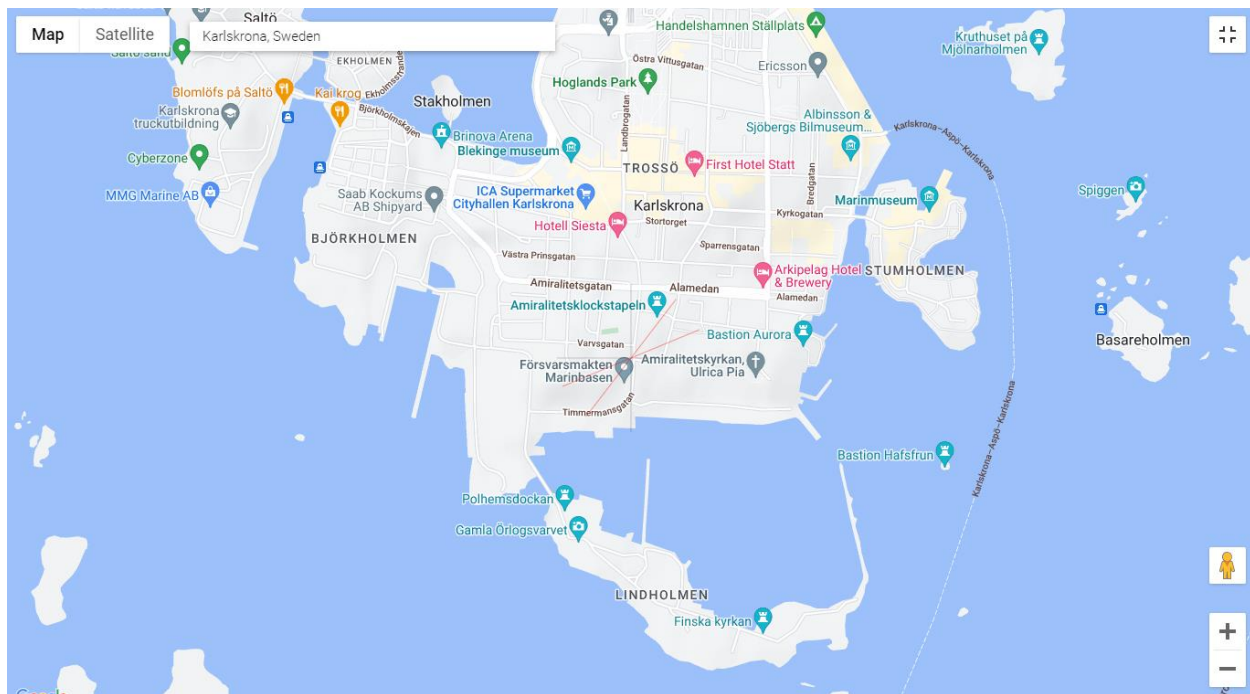
Location

Price

Message

Search

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A detailed map of Karlskrona, Sweden, showing the city's layout and surrounding islands. The map includes labels for various locations such as Saltö, Stakholmen, Hoglands Park, Brinova Arena, Blekinge museum, ICA Supermarket, Cityhallen Karlskrona, Hotell Siesta, Amiralitetsgatan, Alamedan, Bastion Aurora, Bastion Hafsfrun, Lindholmen, Finska kyrkan, Gamla Örlögsvarvet, Poheimsdockan, Försvarmakten Marinbasen, Amiralitetskyrkan, Ulrica Pia, Sparrengatan, Kyrkogatan, Albinsson & Sjöbergs Bilmuseum, Marinmuseum, Spiggen, Basareholmen, and Krutuset på Mjölnerholmen. The map also shows the coastline and surrounding water bodies.

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Task Descriptions:

Task Name: 1.1 Registration
Purpose: Registered customer to Mooring App Trigger: Precondition: customer looks to mooring boats and registered first Frequency: 0.6 customers / minute (customer use the application) Critical: user already exist/ user block /account marked suspicious
Sub-tasks: 1) Registered to application 2) Gives personal information 3) Geographical information
Variants: 1) User already exist 2) False information 3) Authentication not confirm

Task Name: 2.2 Searching for boat
Purpose: searching for the mooring place Trigger: Precondition: customer client search for mooring places by region/ county Frequency: 0.6 average per day Critical: no mooring places available /booking full
Sub-tasks: 1) first search the moor by using boar specification 2) contact to owner about more details 3) provide document for contract and other fomalaties

4) Deal confirmation

Variants:

- 1) Moor already occupied by others
- 2) Places is not good for mooring boat
- 3) Hotels / facilities too far away from boat

Use Cases:

Use Case Name	1.1 Customer Registration
Brief Description	Customer/user registered to applicaiton / login to App
Actors	Customer/ Moor Owner/ client
Precondition	User need user id and password to access the App
Basic flow	1)Customer download the applicaton 2) Customer registered to application by providing user email / password 3) Cusotmer recieved confirm
Alternative flow	1)Customer call to Support 2)provide information and registered.
Exit conditions	Logout from application

Use Case Name	1.2 Search for Mooring Boat
Brief Description	Customer search for the mooring place
Actors	Cusotmer /client /moor owner
Precondition	Already search for the boat /User access the application via user id/ password
Basic flow	1) Customer search for mooring place by filteres 2) Find places by customer deals/ cheap prices 3) After find place need to contact owner for details 4) Sign contract and payment
Alternative flow	Customer email to Mooring agency for registration and mooring place by mooring place ID /code
Exit conditions	Logout from application

Requirement No	Search feature for users
PR1	The product shall be able to search mooring places by entering details by search by city/location/area name in the search box
PR2	The Product shall be able to view the hotels, restaurants, leisure places and petrol pump near the mooring place in the maps.

Requirement No	Rental place payment
PR4	The product shall be able to enter payment details in the application
PR5	The Product shall be able to pay the mooring place rent an through in-app payment gateway

Requirement No	Register and contract
PR3	User shall be able to select the mooring place and apply for registering
PR6:	User shall be able to select download the rent contract

Requirement No	Mooring place
PR7:	User shall be able to add mooring places in the system
PR8:	User shall be able to approve renting request in to the mooring place owner
PR14:	User as a mooring place owner shall be able to view the rental request of the mooring place.

Requirement No	User Rating
PR9:	Mooring place Tenant shall be able to rate the mooring place experience after the rent time
PR10:	Mooring place owner shall be able to rate the mooring place tenant

Requirement Type	User Registration
PR11:	User shall be able to enter name, age , contact no, address, postal address into the system
PR12:	User shall be able to enter boat dimensions (length, width and height) in its user profile
PR13:	User shall be able to select the duration of rent by days to rent out mooring

PR15: ABC Company shall be able to check the activities of user if user does violate company rules and regulations

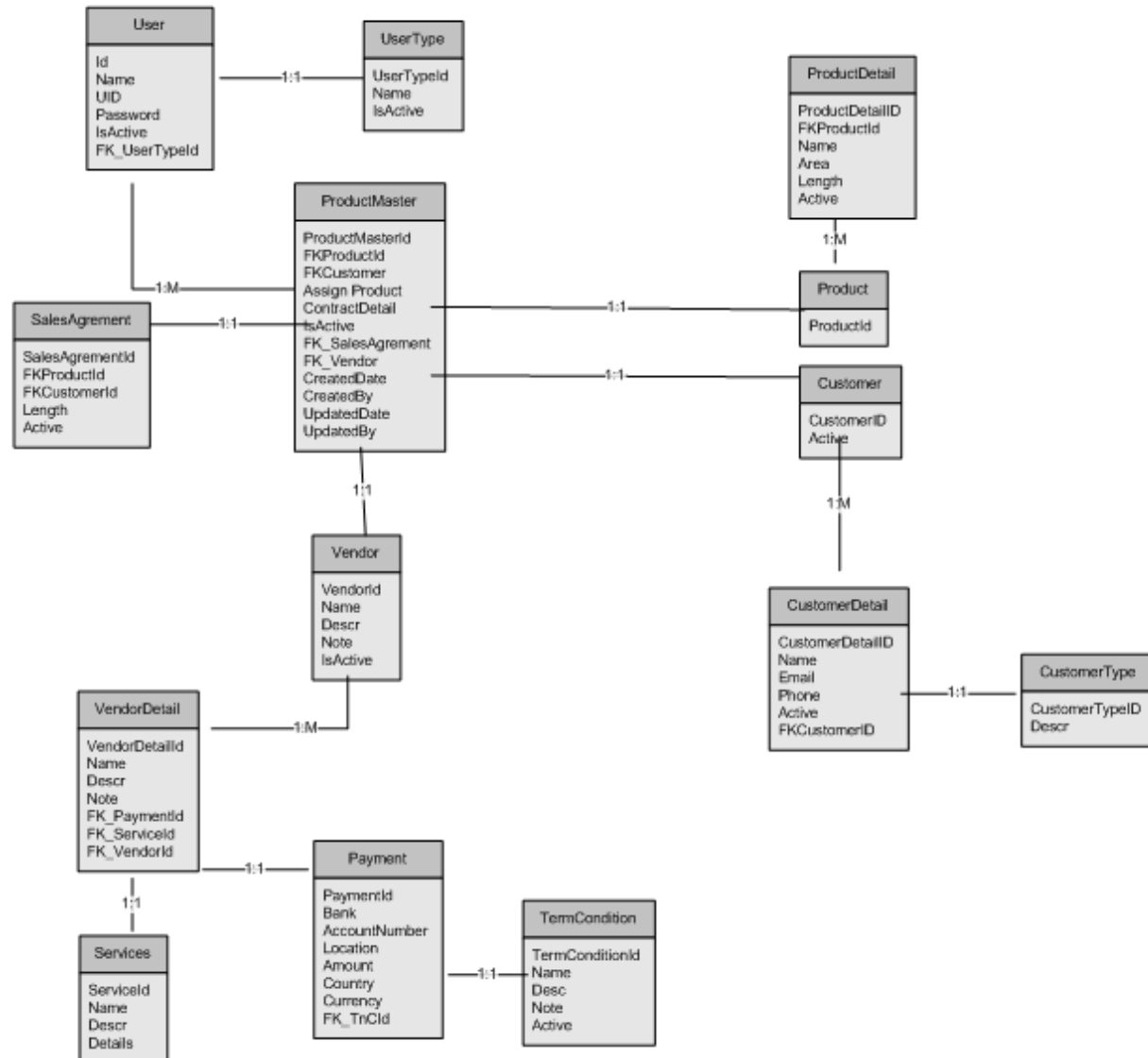
4.3 Data Requirements

We used data dictionary, one prototype and ER model diagram to get data requirements of the system. We are doing rational data base as we can define class ad entity relation model which suits our Object oriented approach.

Data Dictionary:

Table	Users				
Schema					
Responsible Columns	For storing different type of users				
Column	Data type	Description			
id	Integer	Unique entity. Primary key for Users. Foreign key used in user and customer details			
Name	varchar(40)	Name of the user			
Address	varchar(80)	Address used in location			
User Role	ENUM(customer, admin)	Define user role. If role is customer used in customer table			
Date of Birth	Date	Date of birth in yyyy-mm-dd format			
Id card Number	varchar(13)	Unique identifictaion of the country			
Gender	ENUM(Male,Female, Do not specify)	Gender of a customer			
Total Boats	Number	No of boats user wants to register			
Boat dimensions	int Array[Array[3]]	Integer 2 d schema stored in database for wtoring length, width and height of the boats			
Nationality	ENUM(Swedish, Nowergian, Danish)	Nationality used in terms and conditions as a foreign entity			
Email	varchar(40)	Verified Unquie Email for logging into the system			
Password	varchar(30)	Password for logging into the system			

E/R Model:

ERD BoatDockApp**DR1:****Data table: User**

User unique data is saved into the system. All stakeholders/users type data is saved into the system

Attributes:

Id: Integer (Primary key)

Name: varchar(50)

DOB: Date

Nationality: varchar (50)

Phone: varchar (12)

Email: varchar (40)

Password: varchar (20)

UserRole: Integer (Foreign Key)

DR 2:

Data Table: terms and conditions

Lesser shall be able to add the terms and conditions of the mooring place. System admin can add the terms and conditions of the county/country lawn place

Attributes:

Id: Integer (Primary Key),

Name: varchar (30),

Description: varchar (200),

Details: varchar (500)

DR3:

Data Table Payment details:

Boat owner/travelers are pay through in app payments to the rent.

Attributes:

PaymentId: Integer

Bank: varchar (11),

Account ID: varchar (18)

Location: varchar (14)

Amount: Number

Currency: String

TryCid: Integer (Foreign key)

DR4: Product Details

Travelers/boat owners can enter boat dimensions while registering into the system. Mooring place owners can enter their mooring place dimensions.

Attributes:

ProductId:Integer

Name

ProductDetail

Area

Length

Active

4.4 Product Quality Requirements

We used QUPER Model for getting the performance requirements. We also measured the cost/benefit of developing features in house or integrating it with 3rd party.

QUPER Model:

Creation:

1. Quality Aspect:

- **Performance:** System response time for each page (5 Sec)

2. Reference list/ competitors

- **Canal & River Trust:** (Take 2 sec)

3. Quality Break points

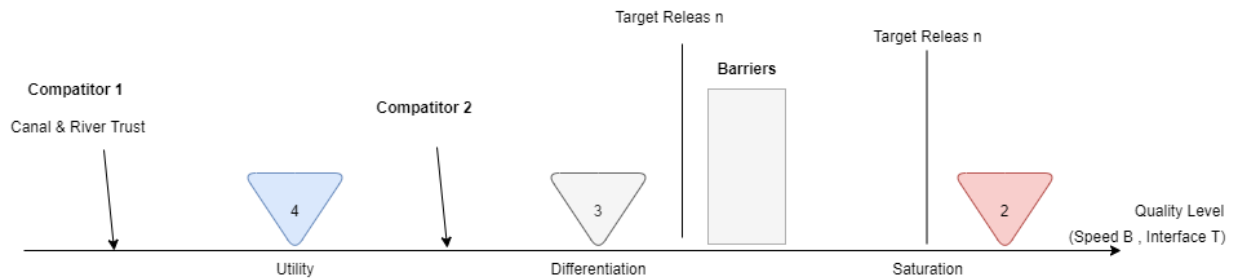
- **Utility:** 4 Sec: All page load time
- **Differentiation:** 3Sec : Filtration activate
- **Saturation:** 2sec: Mooring Place booked

4. Barriers

- **Steep cost: 5 sec:** payment system
- **Steep Cost: 3 sec:** new architecture

5. Target

- **Good: 3 Sec:** This target is possible to create an own payment system without using third party service.
- **Stretch: 3 Sec:** If new S/w Architecture is feasible.

Road Map:**Reliability:**

QR1: System must be reliable to maintain its working for At least 1 billion users at a time.

QR2: System must be fault Tolerance and ensure that work properly during fault detection.

QR3: System should be available 22 hours every day 97.3%.

Availability:

QR4: System must be available 24*7 hour and must have less than 1 mint down time within a week/month.

Performance:

QR5: System response time of every page must not in less than 2 sec.

QR6: All the applied filters must generate result less than 2 sec

Maintenance:

QR7: System must be modifiable at any time in future to be existing features.

Section 5 Requirement Prioritization:

We interview the product owners a second time to elicit and finalize our requirements. In our requirements. We understand our private mooring place owner and mooring are our main stakeholder and thus there requirements are our considered high priority requirements. We decided to use 2 techniques MoSCoW technique and Priority Group Techniques

5.1 MoSCoW Technique:

MoSCoW technique divides the requirements into 4 categories: Must have, Should have, Could have and would have giving priority respectively. We applied the technique and MoSCoW priority hierarchy is as follow:

5.1.1 Must have:

Mooring place owner must have functionality to:

- View the requests of tenants for mooring place
- Chat with the applied tenants for the mooring place
- Promote the mooring place by payment to the system

Traveler, boat owner must have functionality to:

- Search the mooring places using keywords in search words
- Search the mooring places by getting the current location
- Apply to rental mooring place
- Able to register the into the system

5.1.2 Should have:

Mooring place owner must have the functionality to:

- View the total revue generated by the application
- View the profile of the applied tenant

Traveler, boat owner should have the functionality to:

- View the previous rating of the place

5.1.3 Could have:

Traveler, boat owner should have the functionality to:

- View the previous rating of the mooring place
- View restaurants and hotel near the mooring place

System Admin, ABC Company should have the functionality to:

- View the total number of registered users in the system
- View the user by categories (tenant, mooring place owner)
- Login into the system
- Modify ads through admin dashboard in the system

5.1.4 Would have:

System Admin, ABC Company should have the functionality:

- Categorized users in

Traveler, boat owner should have the functionality to:

- Rate the mooring place and services after the rental agreement is finished
- Also interact the application through an mobile application
- Set alerts of nearby newly opened restaurants
- Set alerts of discount in nearby restaurants

5.2 Priority Group:

We prioritize the requirements by the terms of stakeholders. Mooring place owners and boat owners/travelers.

Priority Level	Requirement
High	<ul style="list-style-type: none">• Mooring place owner must have functionality to View the requests of tenants for mooring place• Mooring place owner must have functionality to Chat with the applied tenants for the mooring place• Mooring place owner must have functionality to Promote the mooring place by payment to the system• Travelers/boat owners must have the functionality to Apply to rental mooring place• Travelers/boat owners must have the functionality to Able to register the into the system
Medium	<ul style="list-style-type: none">• Mooring place owner must have the functionality to View the total revue generated by the application• Mooring place owner must have the functionality to View the profile of the applied tenant• Travelers/boat owners must have the functionality to Search the mooring places using keywords in search words• Travelers/boat owners must have the functionality to Search the mooring places by getting the current location• Traveler must be able to View the previous rating of the place• System Admin, ABC Company should have the functionality to View the total number of registered users in the system

	<ul style="list-style-type: none">• System Admin, ABC Company should have the functionality to View the user by categories (tenant, mooring place owner)• System Admin, ABC Company should have the functionality to Login into the system• System Admin, ABC Company should have the functionality to Modify ads through admin dashboard in the system
Low	<ul style="list-style-type: none">• View the user by categories (tenant, mooring place owner)• Login into the system• Modify ads through admin dashboard in the system• Traveler, boat owner should have the functionality to Rate the mooring place and services after the rental agreement is finished • Traveler, boat owner should have the functionality to Also interact the application through an mobile application• Traveler, boat owner should have the ability to Set alerts of nearby newly opened restaurants• Traveler, boat owner should have the ability to Set alerts of discount in nearby restaurants

Section 6: Release Plan:

For our Boat Dock App we use agile methodology for our release plan. The system should be divided into four sprints of two weeks each with milestones representing the expected release dates. The release initiative has been divided into software developers consisting of (front-end/back-end), DB team and QA team. The major software development team involved in each sprint according to priority level, making a clear plan for both stockholders and product development team.

6.1 First time release plan:

For initial first time high level release plan we shall plan as per following factors:

1. **Releasing-** Here we are planning BoatDockApp. Is it a fully responsive web application hosted on a web hosting server by HostingerPK and has a database on MS SQL server.
2. **Requirements-** as per the first time release plan we provide the following main features:
 - a. Web Application with Dashboard
 - b. Search filter
 - c. Location setup
 - d. Bank configuration
 - e. Dock mooring setup
 - f. Maker Checker capability
 - g. Rent Agreement
 - h. SMS /OTP Confirmation
 - i. Payment Confirmation /Email Configuration
3. **Goals & Expectations-** we ensure that the system shall be working after first release. SIT with banking transaction must be complete before first release.
4. **Prioritize Product Backlog-** We shall be prioritizing the tasks by managing the product backlog. Below is the product backlog sheet.

6.2 Project Back Log:

Id	Sprint	Theme	As a/an	I want to	So that	Priority
1	1	Boat Dock App	Mooring place owner	View the requests of tenants for mooring place	owner should view request	High
2	1	Boat Dock App	Mooring place owner	Chat with the applied tenants for the mooring place	owner should chat with tenant	High
3	1	Boat Dock App	Mooring place owner	Promote the mooring place by payment to the system	receive payment from mooring place	High
4	1	Boat Dock App	Traveler, boat owner	Search the mooring places using keywords in search words	search mooring place by key word	High
5	1	Boat Dock App	Traveler, boat owner	Search the mooring places by getting the current location	search mooring place by location filter	High
6	1	Boat Dock App	Traveler, boat owner	Apply to rental mooring place	apply for rental place	High
7	1	Boat Dock App	Traveler, boat owner	Able to register the into the system	registration to app	High
8	2	Boat Dock App	Mooring place owner	View the total revue generated by the application	owner should view total revenue	Medium
9	2	Boat Dock App	Mooring place owner	View the profile of the applied tenant	view profile for tenant for verification	Medium
10	2	Boat Dock App	Traveler, boat owner	View the previous rating of the place	view rating of the place	Medium
11	3	Boat Dock App	Traveler, boat owner	View the previous rating of the mooring place	view previous rating for mooring place	low
12	3	Boat Dock App	Traveler, boat owner	View restaurants and hotel near the mooring place	view all type of restaurant and hotels nearby mooring place	low

13	3	Boat Dock App	System Admin	View the total number of registered users in the system	admin shall be view total number of registered user in BoatDockApp	low
14	3	Boat Dock App	System Admin	View the user by categories (tenant, mooring place owner)	view user by category	low
15	3	Boat Dock App	System Admin	Login into the system	login to system by admin rights	low
16	3	Boat Dock App	System Admin	Modify ads through admin dashboard in the system	update dashboard by admin rights	low
17	3	Boat Dock App	System Admin	Categorized users in	user must be category by admin	low
18	4	Boat Dock App	Traveler, boat owner	Rate the mooring place and services after the rental agreement is finished	update mooring place and service after the rental agreement	low
19	4	Boat Dock App	Traveler, boat owner	Also interact the application through an mobile application	responsive application open via mobile phone /tablet	low
20	4	Boat Dock App	Traveler, boat owner	Set alerts of nearby newly opened restaurants	receive alerts for newly open restaurant	low
21	4	Boat Dock App	Traveler, boat owner	Set alerts of discount in nearby restaurants	set alert for any discount	low

6.3 Development, Setup and Configuration:

The Boat Dock App proposed by software project team for ABC Company. all product setup for company along with a comprehensive web hosting services from HosterPK Web Hosting Server. Development, Product and associated surround system interface setups will be done first. For the initial release we had plan to deploy the app on web hosting server that can manage by our support team.

6.4 User Management for Boat Dock App

User Creation will be done by EN Team for both the interfaces. Bank will be required to share the list of users and User Security Matrix both for test and live.

6.5 System Integration Test (SIT):

6.5.1 Pre- Requisites:

System Integration testing will be carried out in product team premises. ABC Company team to initiate and configure transactions from Boat Dock app. Payment Transaction (Incoming) transactions will have to be initiated from Master Card/Visa Card Scheme .Following System/resources will have to be arranged by ABC Company for this testing:

- VPN Connectivity between Development Server/Main Server and ABC Company
- All existing channels (BoatDock App, MasterCard ,Visa ,Swift pay) availability on Test Environment.
- Test accounts/cards (total 04) for each product and account type should be available on test environment.
- Network connectivity between inter-related systems
- SFTP access (between product team and ABC Company)
- Test Environment connected
- Ready to support all transactions.
- Ready with test data of All types of cards/customers
- Test Swift Accounts (IBAN/Non-IBAN)

6.5.2 SIT Scope:

- All channels Positive, negative and exception transaction cases testing
- Card personalization end to end
- Account Management
- Response code mapping with BoatDock App , MC and Visa Card
- Transaction monitoring Testing
- Reports and EOD extracts

6.6 Training:

End User Training will be provided for

- Stakeholder
- Tech supporting staff

6.7 UAT:

UAT cycle will begin after training session. ABC Company team to share the UAT plan with product team and must make sure all pre-requisites are available. UAT sign off and Advice to Go Live will be shared upon Completion of UAT.

6.8 Cutover:

On successful conclusion of UAT, cutover plan will be published and discussed with ABC Company for Production release.

Section 7: Policy and Regulation Requirements

- RP1: The product should interact with the Country's national tax agency to identify the user credit score.
- RP2: The product shall support in-app payment verified through Bank ID.
- RP3: The Product shall support verifying user boat license data
- RP4: The product shall support verifying mooring place owner place details
- RP5: The product shall support option to view terms and conditions of the mooring place guidance and regulatory terms and conditions

Section 8 References:

- [1] A. Hudaib, "Requirements Prioritization Techniques Comparison," *Modern Applied Science*, vol. 12, pp. 1913-1844, 2018.
- [2] M. Suiab, "Requirment Elicitation Technique :- A Review Paper," *International Journal of Computer & Mathematical Sciences*, vol. 3, no. 9, pp. 2347-8527, 2014.

Section 9 Document Revision History

Version	Date	Name	Description
1.0	10-11-2022	Muhammad Mohsin, Syed Ali Hassan, Muawaz Ayyaz, Hafiz Muhammad	First version of the SRS document. We started working on section 1 on

		Sultan	the document
1.1	12-11-2022	Sai Parkas Chakla, Syed Ali Hassan, Muhammad Shahzaib, Hafiz Muhammad Sultan	We did analysis of the domain and written the elicitation techniques we are going to use in the document
1.2	14-11-2022	Muhammad Mohsin, Syed Ali Hassan, Muhammad Shahzaib, Sai Prakash, Muawaz Ayyaz, Hafiz Muhammad Sultan	After interview with the product owners, we started writing system requirements
1.3	17-11-2022	Muhammad Mohsin, Syed Ali Hassan, Muhammad Shahzaib, Sai Prakash, Muawaz Ayyaz, Hafiz Muhammad Sultan	We finalized the version 1 with complete system requirements
1.4	08-12-2022	Muhammad Mohsin/Syed Ali hasan	Reference Updating/ Policy and Regulation Requirements
1.5	09-12-2022	Syed Ali Hasan/Muhammad Mohsin	Release Plan/Back Log sheet
1.6	09-12-2022	Muhammad Mohsin/Syed Ali hasan	Update Backlog / content page