

Software Development Project

# YuckyJoki

Software Design Document

## Team members:

Anniina Kirstinä  
Maarit Logren  
Moez Khan  
Moufida Dkhili Ep Alakulju  
Yinan Li

Date: 22/03/2022

## 1. Introduction

LuckyJoki.com provides a platform for sharing a boat ride in Oulu River, Oulu River delta and surrounding sea areas. It is used both by people looking for a boat ride and those offering a ride on their boat. Oulu is a marine city, but it is rarely accessible for an ordinary person to experience Oulu on water. Our software brings together boat owners and people longing to feel a fresh sea breeze! At the same time, it can create reasonable income for the boat owner.

## 2. User Interface

There will be 6 layouts:

### Home page:

Header: logo, pages menu, registration form/log in options.

Brief service introduction.

Real-time information about boat ride offering owner's name, boat type, seats remaining, price, time- period, travel area.

Footer: company name, address, email, Instagram link, Facebook link, Twitter link.

### Map and Stops page:

Start point search box

End point search box

Map with user location and famous attractions

Classic routes column

Order form for passenger/offer form for boat owner

### About Oulu River page:

Introduction

Map

Photos of Oulu River

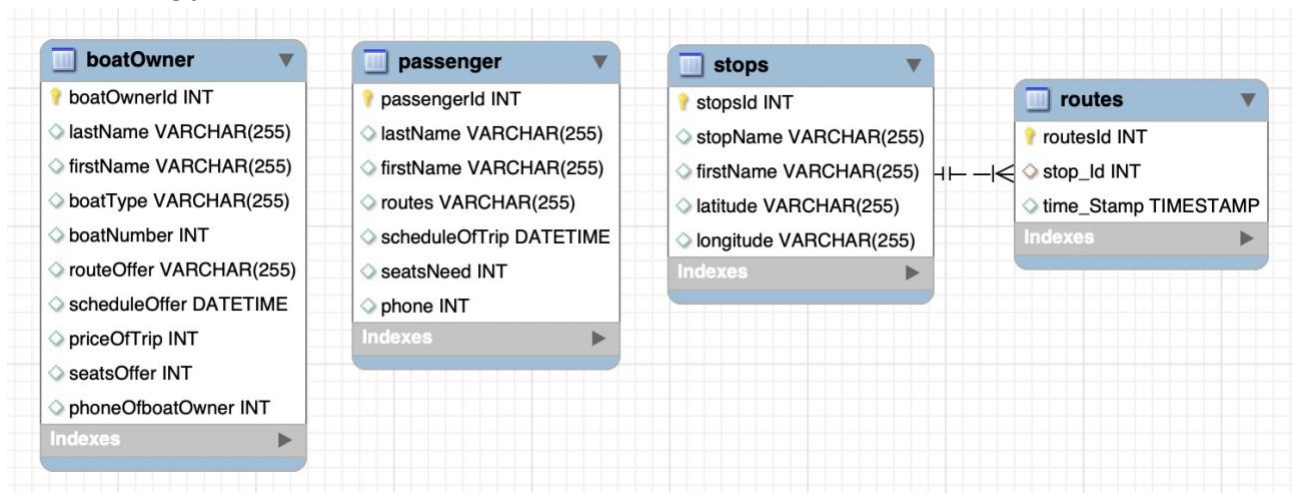
### Contact page:

### Account and Settings page: (when click username)

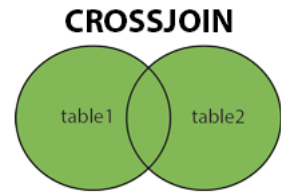
### Boat owner/passenger 's review page: (when click boat owner/passenger's name)

## 3. Database

The following picture shows the basic tables, table structures and relations between them:



Based on these tables, we will manage our database to support our development. For example, the joined data from both users type tables on the related columns (Route, Schedule) allows us to create a third table for the data to display on the user interface.



## 4. Development plans

- **We plan the development work follow these principles:**
  - 1) Everyone should contribute to the project and be supportive to others' work.
  - 2) We will try to put all skills we have learned into practice and prepared to learn new skills if needed.
  - 3) According to SWOT analysis as a group and as an individual, proper member should be responsible to some cross cutting tasks, such as report writing, presentation, team management, monitoring and so on.
  - 4) Technical details can be flexible based on the situation, for example when collecting users' data, we will have either the option of sending the data to MySQL table or push it to Json file.
- **Development task has been divided as the following form:**

Task				Tools	Contributors	ETC
Planning				Monday.com Microsoft office Teams	5	1 week
Execution	Front-end	UI design		Figma	2	
		Webpages Structure and behavior		Html, css, JS	2	3 weeks
		Restful API communication		Node JS	3	
	Back-end	Web server setups			1	
		Restful API		Node JS	2	
		Data base management		Mysql	2	
Launching		Code testing	Code revision and optimization	/	2	1 week
		Publishing		/	1	1 week
Closure					5	

- **Development schedule:**

