




MOFFAT BAY CAPSTONE PROJECT



Emmanuel Diaz,
Sarah Ewing,
Melissa Lawrence,
Edgar Rosales Fierros

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The background is a solid blue gradient. On the left side, there are several geometric elements: a large, thin white circle, a medium-sized solid light blue circle, and a small thin white circle. A thin white line cuts diagonally across these circles. In the bottom right corner, there is another solid light blue circle with a thin white circle and a thin white line intersecting it.

01

INTRODUCTION
TO THE TEAM

01 - INTRODUCTION TO TEAM

EDGAR ROSALES FIERROS

Our CEO, Mr. Edgar Rosales, is at the helm of The SQLar Federation. Mr. Rosales is a visionary with an exceptional track record for spearheading innovation and driving growth within the tech sector. His leadership is integral to the success and direction of our firm.

SARAH EWING

The technical vision and innovation of The SQLar Federation are shaped by our CTO and CIO, Ms. Sarah Ewing. Her dual expertise in technology and information systems equips us to offer cutting-edge solutions that are both practical and scalable, tailored to the unique challenges our clients face.

MELISSA LAWRENCE

Our financial health and strategic planning are under the careful watch of CFO Ms. Melissa Lawrence. Her adept financial acumen ensures we deliver cost-effective and efficient solutions to our clients, emphasizing value and return on investment.

EMMANUEL DIAZ

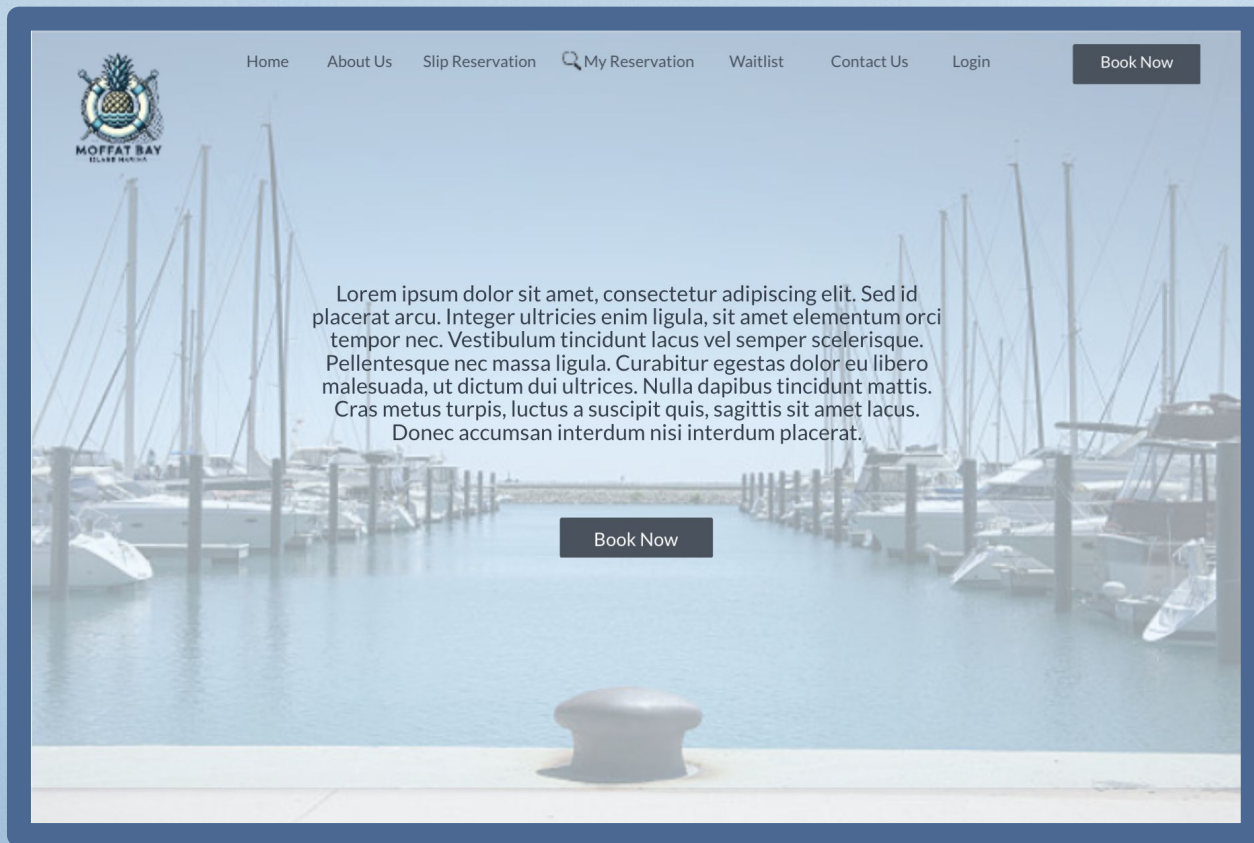
Adding to the strength of our executive team is CSO Mr. Emmanuel Diaz. His role is critical in defining comprehensive security strategies and ensuring the integrity and protection of our client's data and IT infrastructures. His experience and foresight in cybersecurity are invaluable assets in today's digital landscape.

The background features abstract geometric elements. On the left, a large white circle is partially obscured by a smaller, semi-transparent blue circle. A thin white line passes through the intersection of these two circles. In the bottom right corner, there is another semi-transparent blue circle with a small white circle inside it, also intersected by a thin white line.

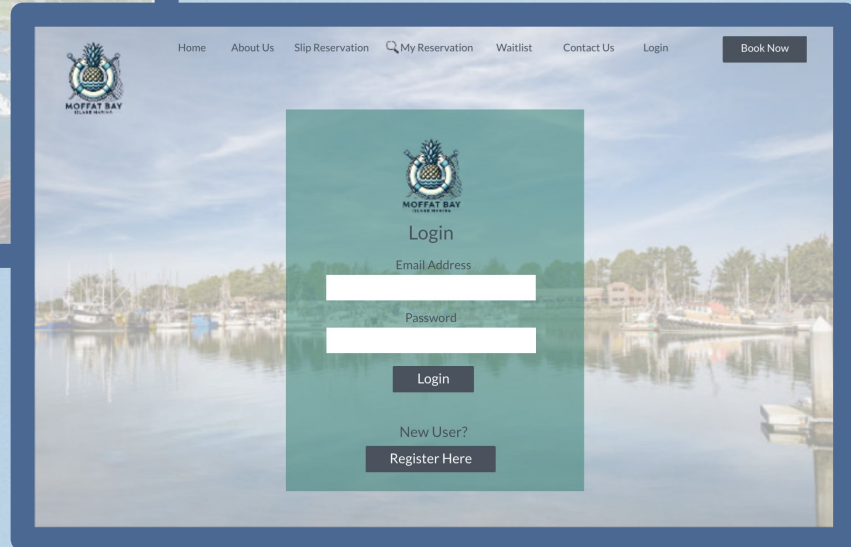
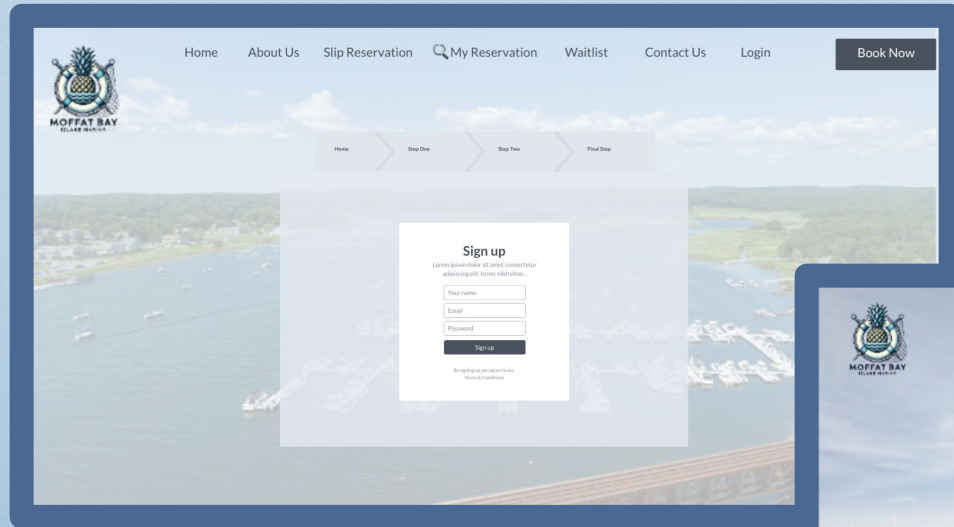
02

PROTOTYPES

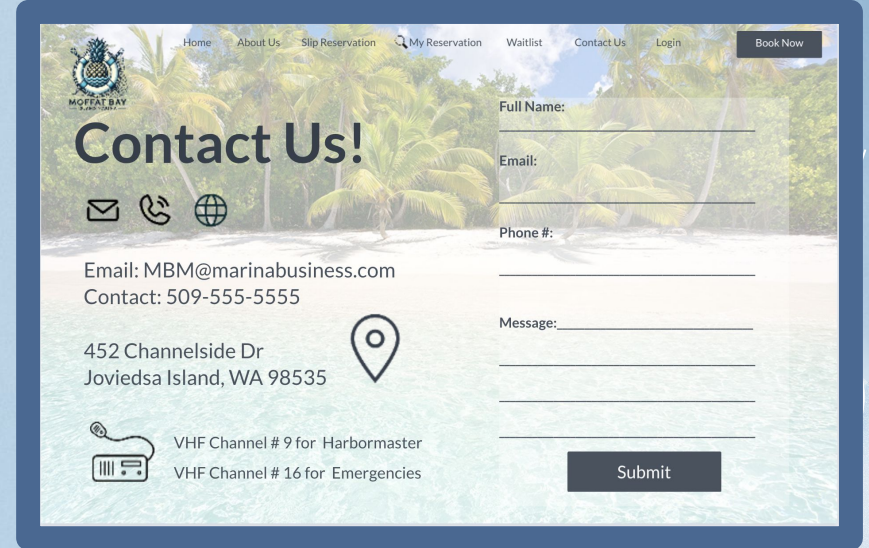
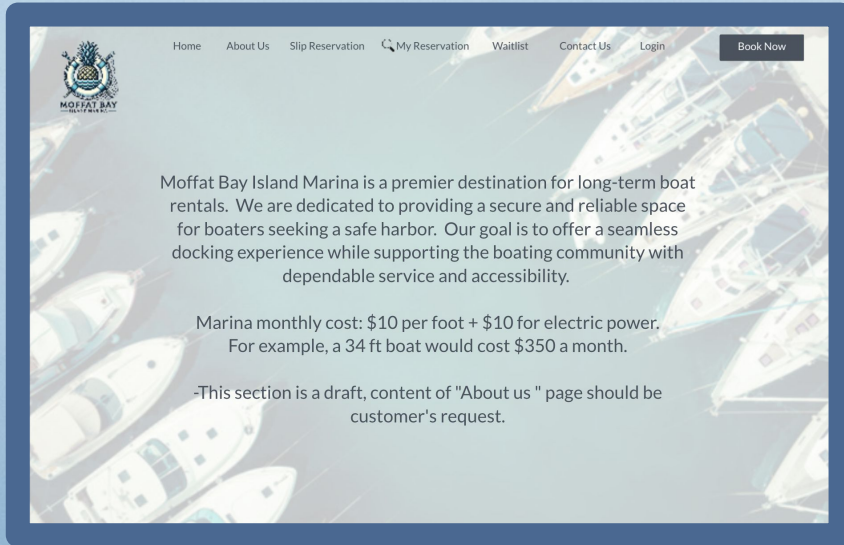
LANDING PAGE



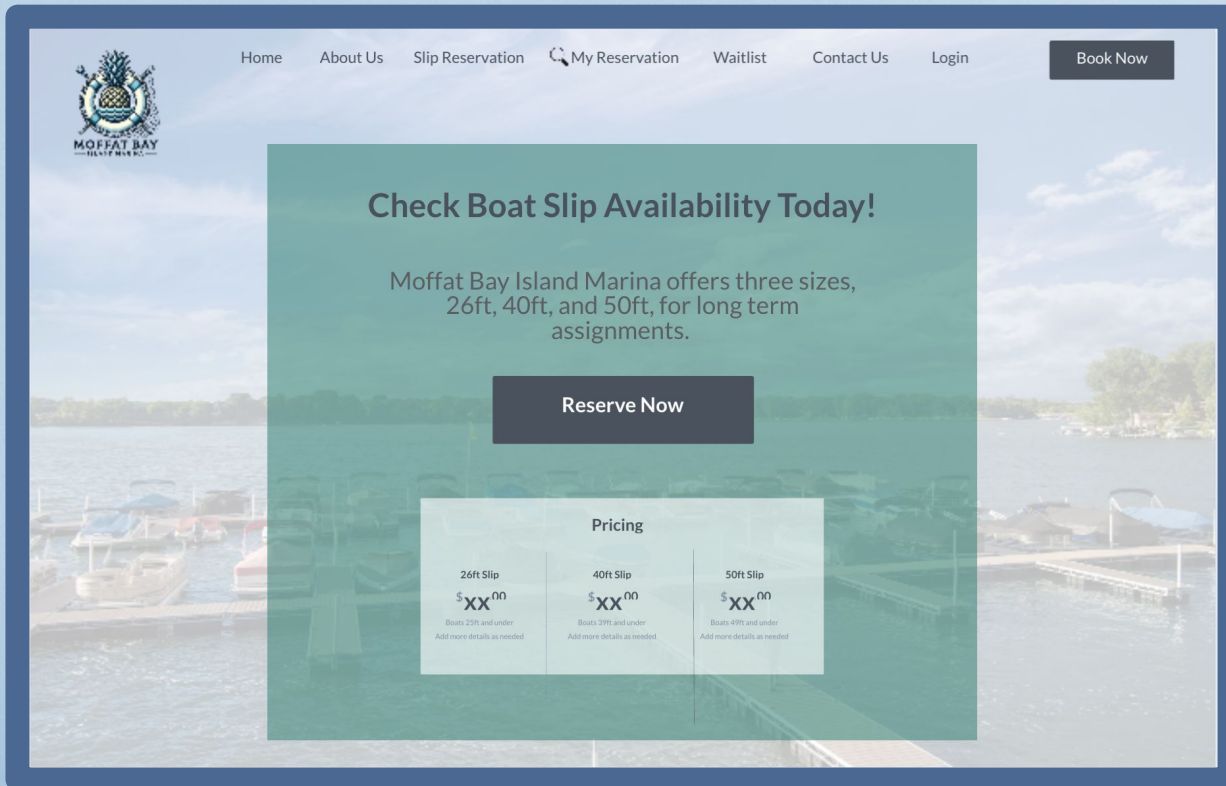
USER REGISTRATION & LOGIN PAGE



CONTACT US & ABOUT PAGES



SLIP RESERVATION INFORMATION PAGE



The screenshot displays the website for Moffat Bay Island Marina. The background is a scenic view of the marina with several boats docked at wooden piers. A green semi-transparent overlay covers the center of the page, containing the main heading, descriptive text, a 'Reserve Now' button, and a pricing table.

Moffat Bay Island Marina Logo

Navigation Menu: Home, About Us, Slip Reservation, My Reservation, Waitlist, Contact Us, Login, **Book Now**

Check Boat Slip Availability Today!

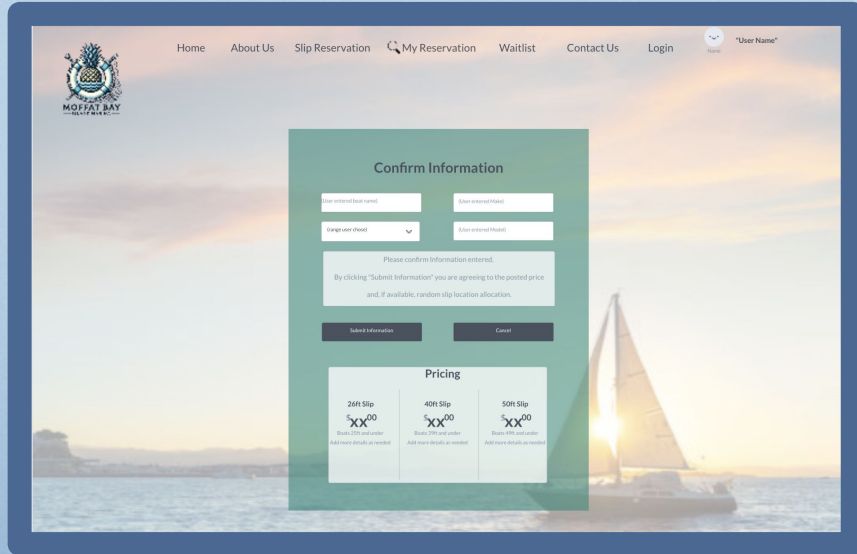
Moffat Bay Island Marina offers three sizes, 26ft, 40ft, and 50ft, for long term assignments.

Reserve Now

Pricing		
26ft Slip \$XX ⁰⁰ Boats 25ft and under Add more details as needed	40ft Slip \$XX ⁰⁰ Boats 39ft and under Add more details as needed	50ft Slip \$XX ⁰⁰ Boats 49ft and under Add more details as needed

RESERVATION CONT.

USER CONFIRMATION AND SUMMARY



Home About Us Slip Reservation My Reservation Waitlist Contact Us Login "User Name"

Confirm Information

Your email/boat email: Enter email/boat email

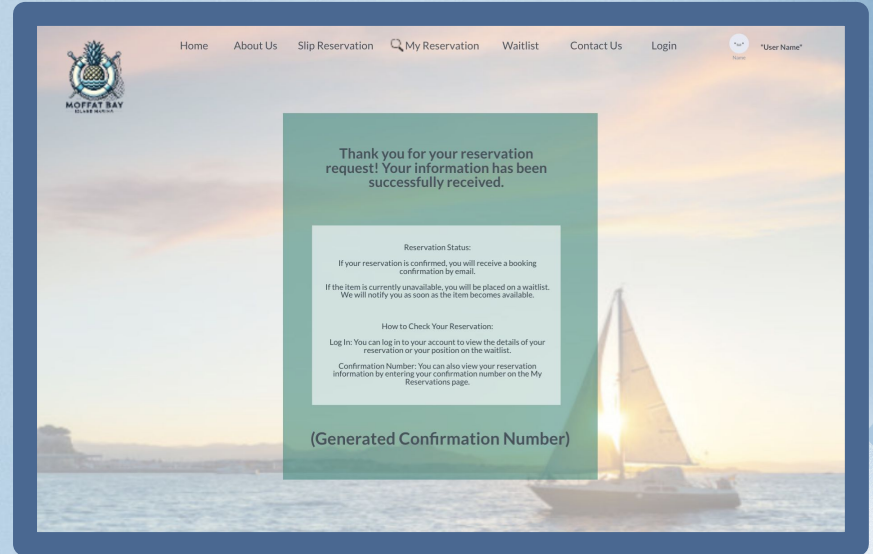
Single user (free) Enter email/boat email

Please confirm information entered.

By clicking "Submit Information" you are agreeing to the posted price and, if available, random slip location allocation.

Pricing

24h Slip \$XX ⁰⁰ Boats 23ft and under Add more details as needed	40h Slip \$XX ⁰⁰ Boats 39ft and under Add more details as needed	50h Slip \$XX ⁰⁰ Boats 49ft and under Add more details as needed
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Home About Us Slip Reservation My Reservation Waitlist Contact Us Login "User Name"

Thank you for your reservation request! Your information has been successfully received.

Reservation Status:

If your reservation is confirmed, you will receive a booking confirmation by email.

If the item is currently unavailable, you will be placed on a waitlist. We will notify you as soon as the item becomes available.

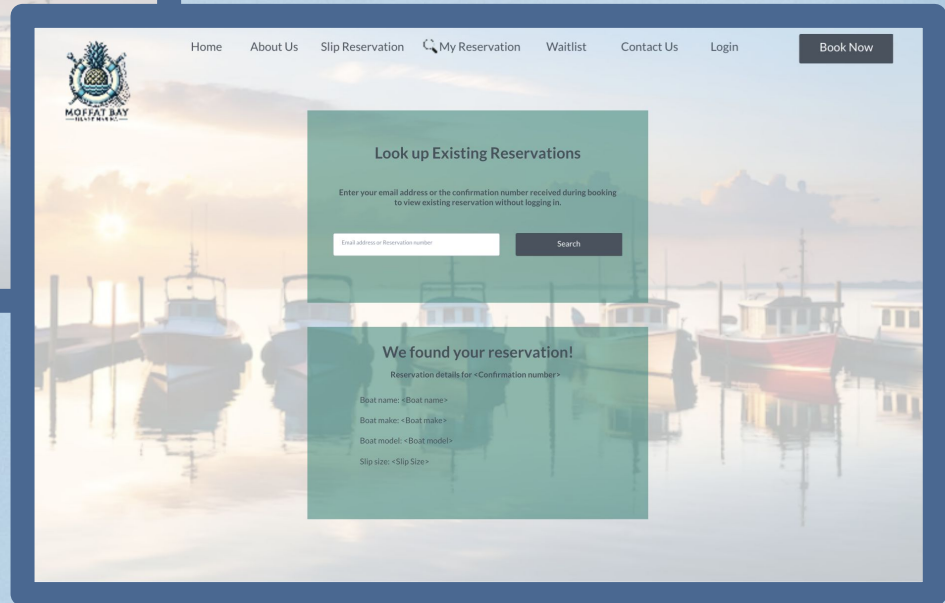
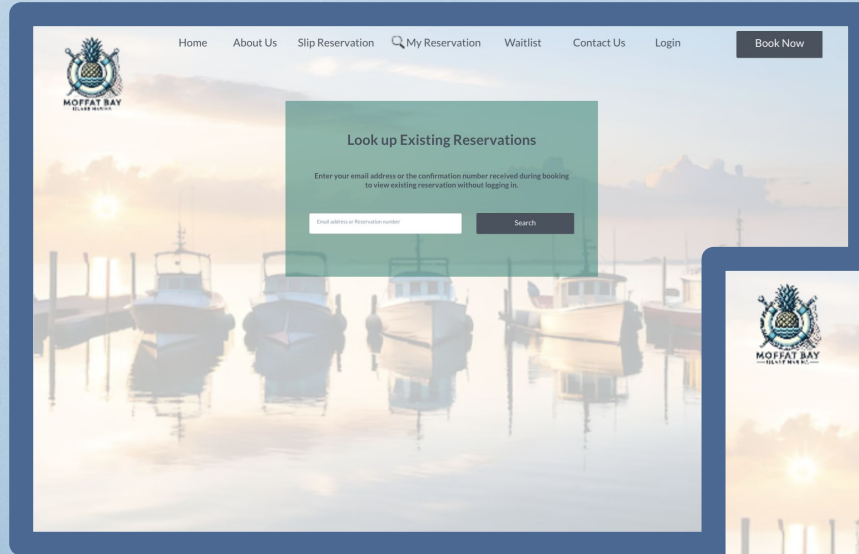
How to Check Your Reservation:

Log In: You can log in to your account to view the details of your reservation or your position on the waitlist.

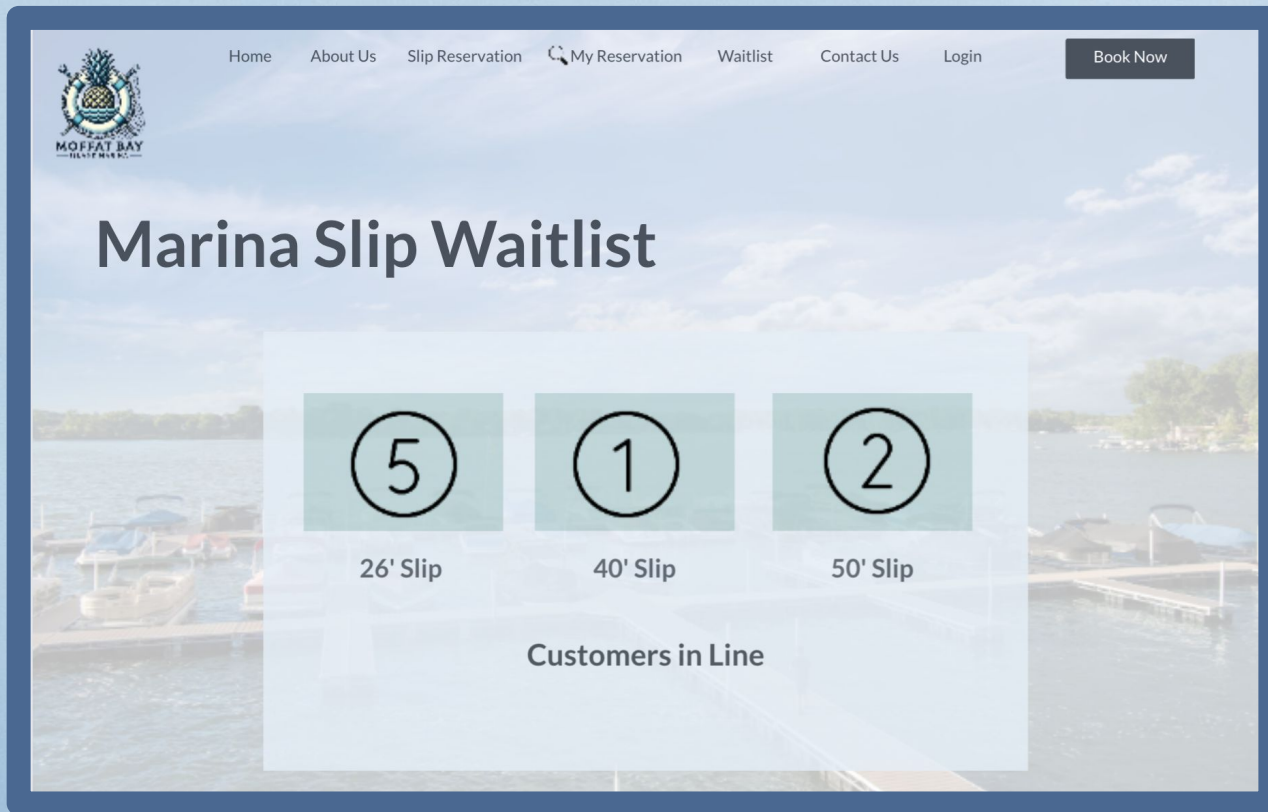
Confirmation Number: You can also view your reservation information by entering your confirmation number on the My Reservations page.

(Generated Confirmation Number)

RESERVATION LOOKUP PAGE



MARINA SLIP WAITLIST PAGE



A mockup of a Marina Slip Waitlist page. The page features a navigation bar at the top with links: Home, About Us, Slip Reservation, My Reservation (with a magnifying glass icon), Waitlist, Contact Us, and Login. A 'Book Now' button is located on the right side of the navigation bar. The main heading is 'Marina Slip Waitlist'. Below the heading, there are three columns representing different slip sizes, each with a number in a circle and a label: '26' Slip' with the number 5, '40' Slip' with the number 1, and '50' Slip' with the number 2. Below these columns, the text 'Customers in Line' is displayed. The background of the page is a scenic view of a marina with boats and a lake.

Home About Us Slip Reservation My Reservation Waitlist Contact Us Login [Book Now](#)

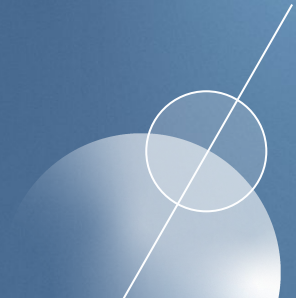
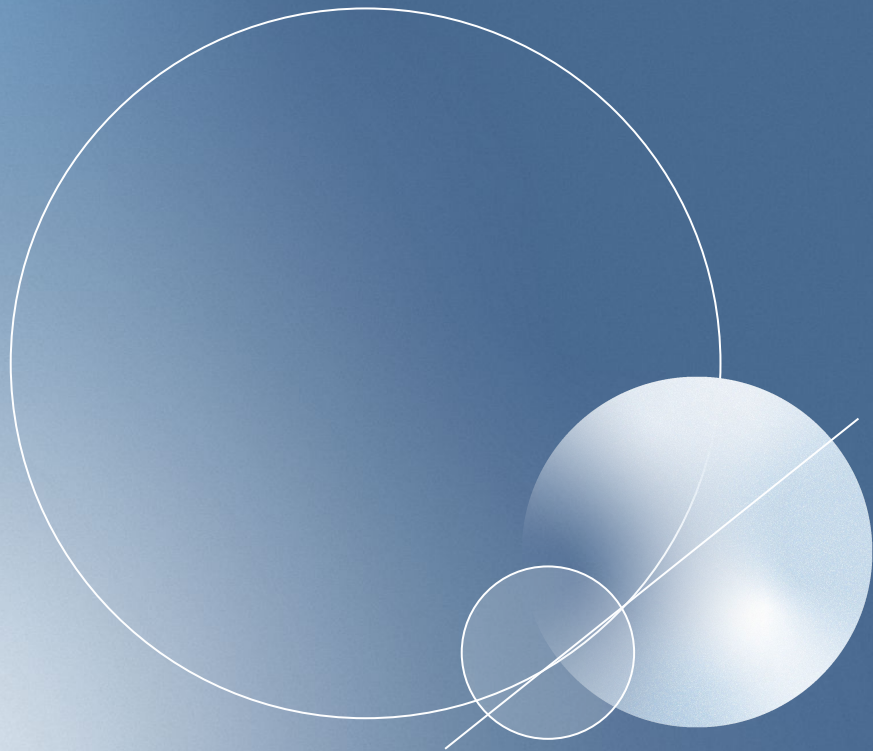
Marina Slip Waitlist

26' Slip	40' Slip	50' Slip
5	1	2

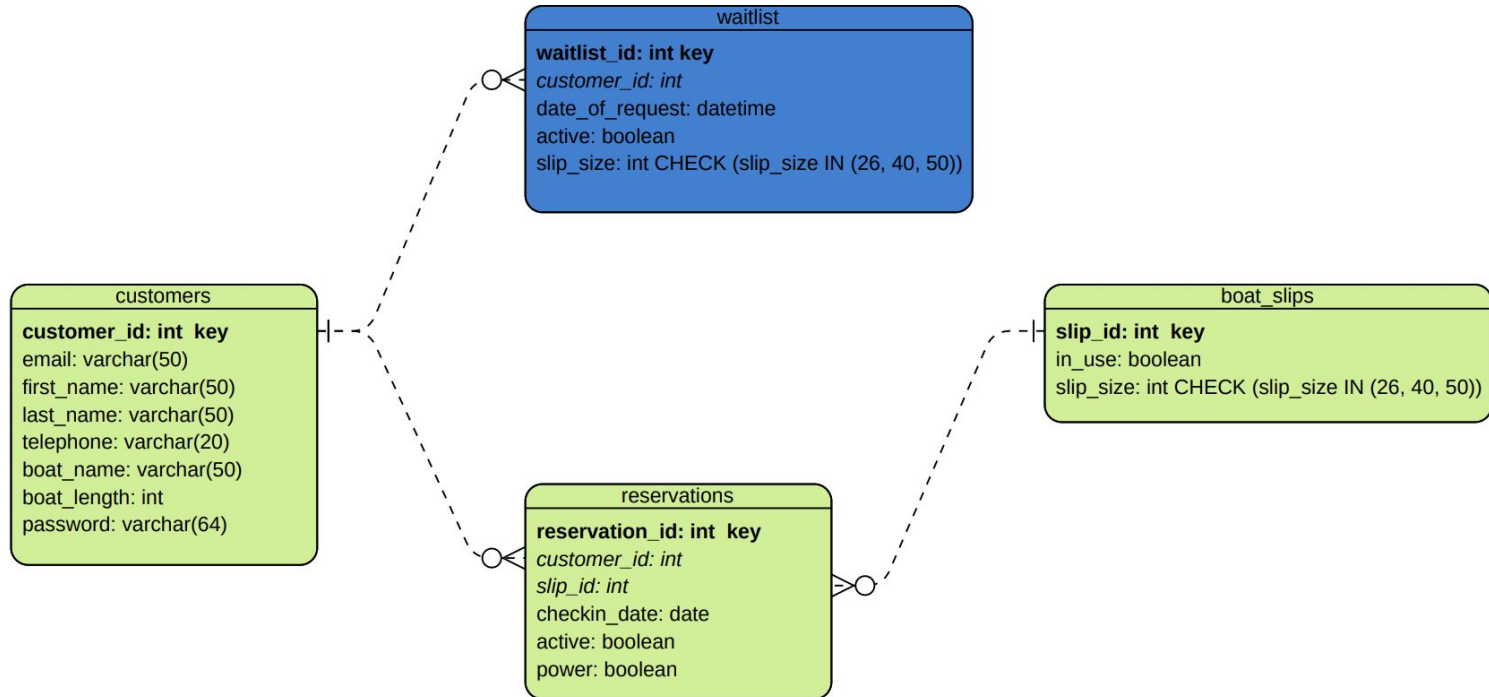
Customers in Line

03

ENTITY
RELATIONSHIP
DIAGRAM



03 - ERD



The background features abstract geometric elements. On the left, a large white circle is partially visible. In the center, a smaller white circle is partially visible. On the right, a large blue circle is partially visible. A white line crosses the blue circle diagonally. Another white line is visible in the bottom right corner, crossing a small white circle.

04

CREATED TESTS
& RESULTS

LOGIN PAGE

VERIFY USER LOGIN WITH VALID CREDENTIALS

For this test, we were checking to make sure that a valid username and password would allow a user to log in to the website. The user in the test case had already been entered into the database with a hashed password. We navigated to the login page, entered a valid email address and password, and clicked the "Log In" button. The email address is used to retrieve a record from the MySQL database, and the entered password is hashed and compared with the hashed password from the database. Because the hashed passwords match, the user is logged into the website and redirected to the My Account page with the user's personal information.

REGISTRATION PAGE

VERIFY ERROR MESSAGE WHEN REGISTERING WITH EXISTING USER

For this test, we were checking to make sure that a user was not able to register if their email address already exists in our database. The user navigates to the Registration page and inputs an email address, first name, last name, telephone number, boat name, boat length, and password. When the user clicks the "Register" button, a query is made to the database to see if a customer already exists with the entered email address. In this test, the email address existed in the database, and an error message was displayed that said, "There is already an account with this email," and there was a link to "Log in instead."

SLIP RESERVATION PAGE

VERIFY USER CAN RESERVE A BOAT SLIP

For this test, we were checking to make sure that a user is able to reserve a boat slip. The user navigates to the Slip Reservation page, where they receive information about reserving a boat slip. The user then clicks the "Reserve Now" button to start the slip reservation process. The user is directed to the login page, where a valid email address and password are entered. Once logged in, the user is directed to a page with the user's boat name and length auto-populated and an input for the check-in date, check-out date, and power. The user enters check-in and check-out dates, specifies whether or not they need power, and clicks the "Reserve Slip" button. The user is sent to a confirmation page with the information entered on the previous page and the monthly slip rental cost. When the user clicks "Confirm Reservation," they are directed to a Reservation Summary page with all of the information from the reservation.

RESERVATION LOOKUP PAGE

VERIFY USER CAN CHECK RESERVATION WITH RESERVATION ID

For this test, we were checking to make sure that a user is able to retrieve their reservation information using the reservation ID they have previously received. The user navigates to the Reservation Lookup page. The user will then input a previously received reservation ID in the input box on the page and click the "Search" button. The reservation details for that slip reservation will be retrieved and displayed. This information will include the reservation ID, slip ID, check-in date, check-out date, and power requirement.

WAITLIST LOOKUP PAGE

VERIFY WAITLIST COUNT INCREASES IF USER IS ADDED TO THE WAITLIST

For this test, we were checking to make sure that the number of customers on the waitlist increases when a user is added to the waitlist. The user navigates to the Waitlist lookup page and notes the number of customers on the 50-foot slip waitlist. The user then navigates to the registration page and registers their information with a 42-foot boat. The user then navigates to the Slip Reservation page and clicks "Reserve Now." Because the user is already logged in, they are directed to the reservation form with their boat name and length auto-populated. The user then enters their check-in and check-out dates and clicks the "Reserve Slip" button. The user is sent to a page that says there are no available slips and asks the user if they would like to be added to the waitlist. The user clicks the "Join Waitlist" button and receives a message that they have been added to the waitlist. The user then navigates to the Waitlist lookup page and will see that the number of customers on the 50-foot slip waitlist has increased by one.

The background is a solid blue gradient. On the left, there is a large, thin white circle. Overlapping its bottom-right edge is a smaller, solid light-blue circle. A thin white line passes through the center of this solid circle and extends towards the bottom right. In the bottom right corner, there is another solid light-blue circle, partially cut off by the edge, with a thin white line passing through its center and extending towards the bottom right.

05

LIVE SITE
SCREEN
CAPTURE

LIVE SITE SCREEN CAPTURE

If video does not load, visit <https://youtu.be/6SdnfcvStfc>



The background is a solid blue gradient. On the left, there is a large, thin white circle. Overlapping its bottom-right edge is a smaller, solid light-blue circle. A thin white line passes through the center of this solid circle and extends towards the bottom-left. In the bottom-right corner, there is another solid light-blue circle, with a thin white line passing through its center and extending towards the bottom-right. The text '06' is positioned in the upper right area, and 'LESSONS LEARNED' is below it, separated by a thin white diagonal line.

06

LESSONS
LEARNED

06 - LESSONS LEARNED

LESSON 1: COMMUNICATION

Who? What? When? Where?
Why? How? These are all great questions that should be asked of yourself as well as your team members. It helps everyone get on the same page and voice concerns if not. But the minimum is checking in, preferably a few times daily if there is lots to do.

LESSON 2: REACHING OUT

In having teammates, You would hope they don't want to see you flail (like a fish) because that could cause the group to fail. Lending a hand or talking it through helps solve confusion and bring a solution.

LESSON 3: SLEEP

Just like a computer, sometimes the brain needs a defrag and a hard reset, and just like the pop-up you've been ignoring, the computer will eventually force the issue or stop working. Often, after sleep, the problem was easier to solve.

The background is a solid blue color. In the top right corner, there are two overlapping white circles and a white line passing through them. In the bottom left corner, there are two overlapping white circles and a white line passing through them. In the bottom right corner, there is a white line segment.

THANK YOU

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