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# ASSIGN SEATS TO PASSENGERS IN AN AIRCRAFT

SEKAL TECHNICAL INTERVIEW

#### **Front-End Part**

• HTML

SASS

• CSS

- Bootstrap5
- JavaScript

## Technologies



- Node.js
- Express.js
- MYSQL

# Front-End

HTML

For implementing the structure of the website

CSS, SASS

For Designing the HTML

BOOTSTRAP5

For having responsive design

disabled featured to input

**JQUERY** 

for clicking function to get the which seat is selected showing which seat is booked and adding

# Back-end



For making a server, saving data in mysql database and and getting all the information from database

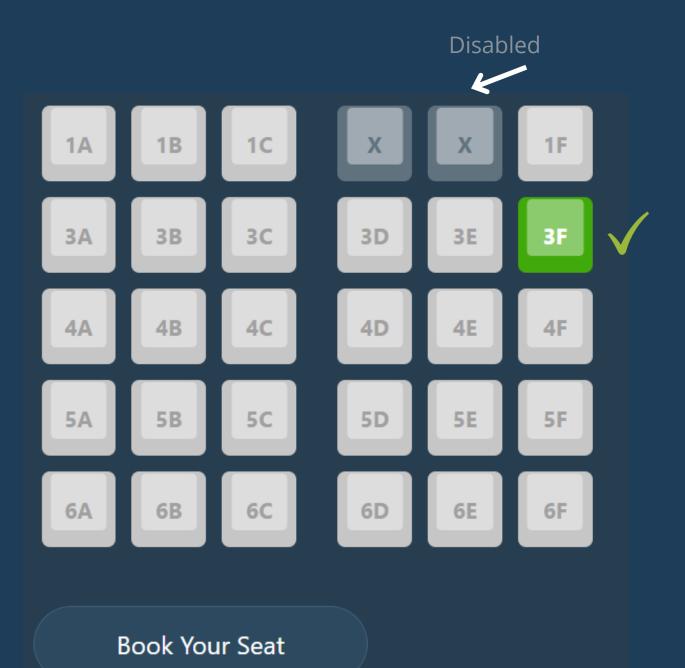
EXPRESS.JS

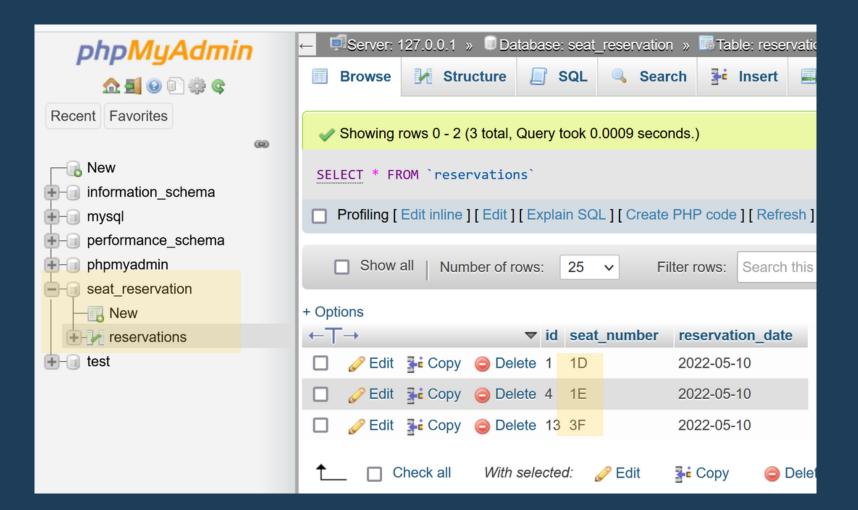
For making backend API

MYSQL

For creating Database

# IDEA



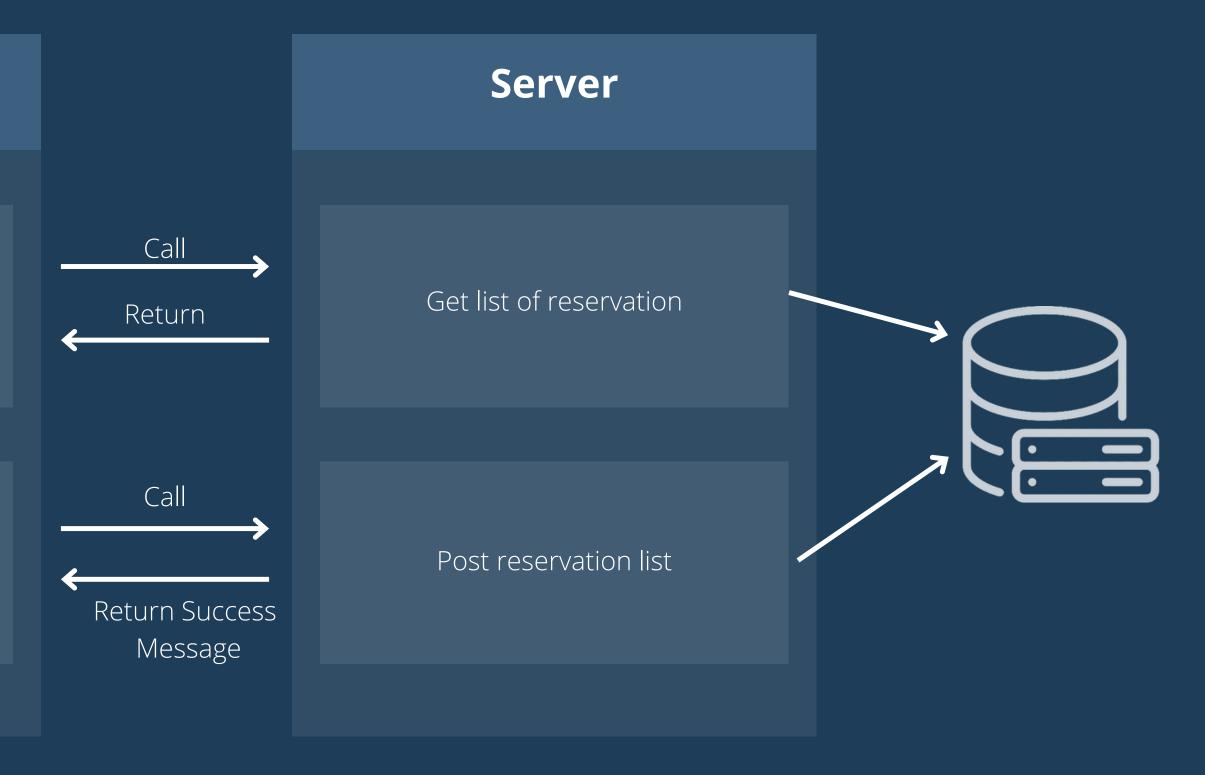


## DIAGRAM

#### Front-end

Calling backend API to get the reservation-list

Calling backend API to save the reservation-list



#### **CONFIG AND INSTALLATION**

- creating a node server with express frame work:
- install npm
- install express --save
- install mysql to connect to the database
- install path npm package for reading from directory

```
const express = require('express');
const mysql = require('mysql');
const path = require('path')

const app = express();
const port = process.env.PORT || 8081;
app.use(express.json());

app.use(express.static("dist"));
```

Calling backend API to get the reservation-list

```
$("#submit").click(function(e) {
   e.preventDefault();
   var bookingList = [];
   $('input:checked').each(function() {
        bookingList.push({
            'seat_number': $(this).val(),
            'reservation_date': "2022-05-10"
        });
    });
   console.log(bookingList)
   fetch("http://localhost:8081/api/book-reserved-seats", {
           method: 'POST',
           headers: myHeaders,
           body: JSON.stringify(bookingList),
           redirect: 'follow'
        }).then(response => response.text())
        .then(result => {
           console.log(result);
           location.reload();
        .catch(error => console.log('error', error));
```

Calling backend API to save the reservation-list

```
app.get('/api/get-reserved-seats', function(req, res) {
    con.query("SELECT * FROM reservations", function(err, result, fields) {
        if (err) throw err;
        res.status(200).send(result);
    });
});
```

Get list of reservation

```
app.post('/api/book-reserved-seats', function(req, res) {
    var sql = "INSERT INTO reservations (seat_number, reservation_date) VALUES ?";
    var value = [];
    for (var val of req.body) {
        list = [
            val.seat_number,
            val.reservation_date
        value.push(list);
    con.query(sql, [value], function(err, result) {
       if (err) throw err;
        res.status(200).send({
            "message": "successfully inserted"
});
```

### **FUTURE WORK**

- Making better UI design
- Adding feature for cancelling the reservation of specific seats
- Showing successful / error message to user based on reservation process

## RESOURCES

- https://blog.logrocket.com/build-rest-api-node-express-mysql/
- https://www.w3schools.com/nodejs/nodejs\_mysql\_insert.asp