CAR MANGEMENT

CSD 3103 Full Stack JavaScript

SUBMITED BY:

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Details about car website:

I. Introduction

- The purpose of the website is to provide a comprehensive list of cars for car enthusiasts to browse and search through, as well as a platform for users to add their own car listings, reviews, and participate in community forums.
- The project car list website is designed to be user-friendly and accessible to all car enthusiasts, regardless of their level of expertise.

II. Website Features

- The website features a search function that allows users to search for cars by make, model, year, and other specifications.
- Sorting and filtering options are available, allowing users to refine their search results based on criteria such as price, mileage, and location.
- Car profiles include photos, specifications, and reviews, as well as user ratings and comments.
- The community forum and discussion boards allow users to interact with each other, share information, and ask questions.

III. User Interface Design

- The website design is clean and modern, with a minimalist color scheme and intuitive navigation.
- The homepage features a prominent search bar, as well as a featured car of the week and links to popular car categories.
- Car profiles are displayed in a visually appealing format, with photos and specifications prominently displayed.

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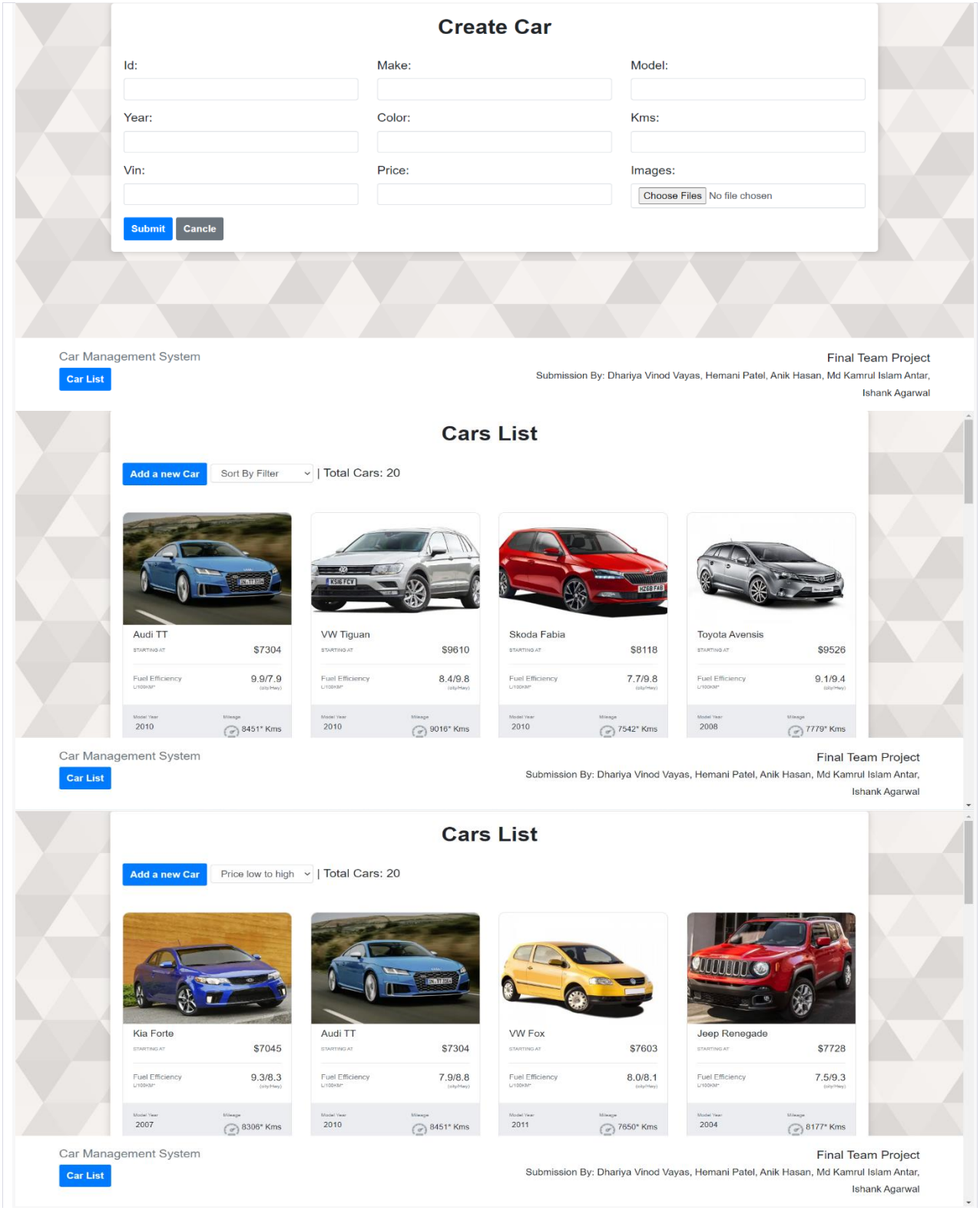

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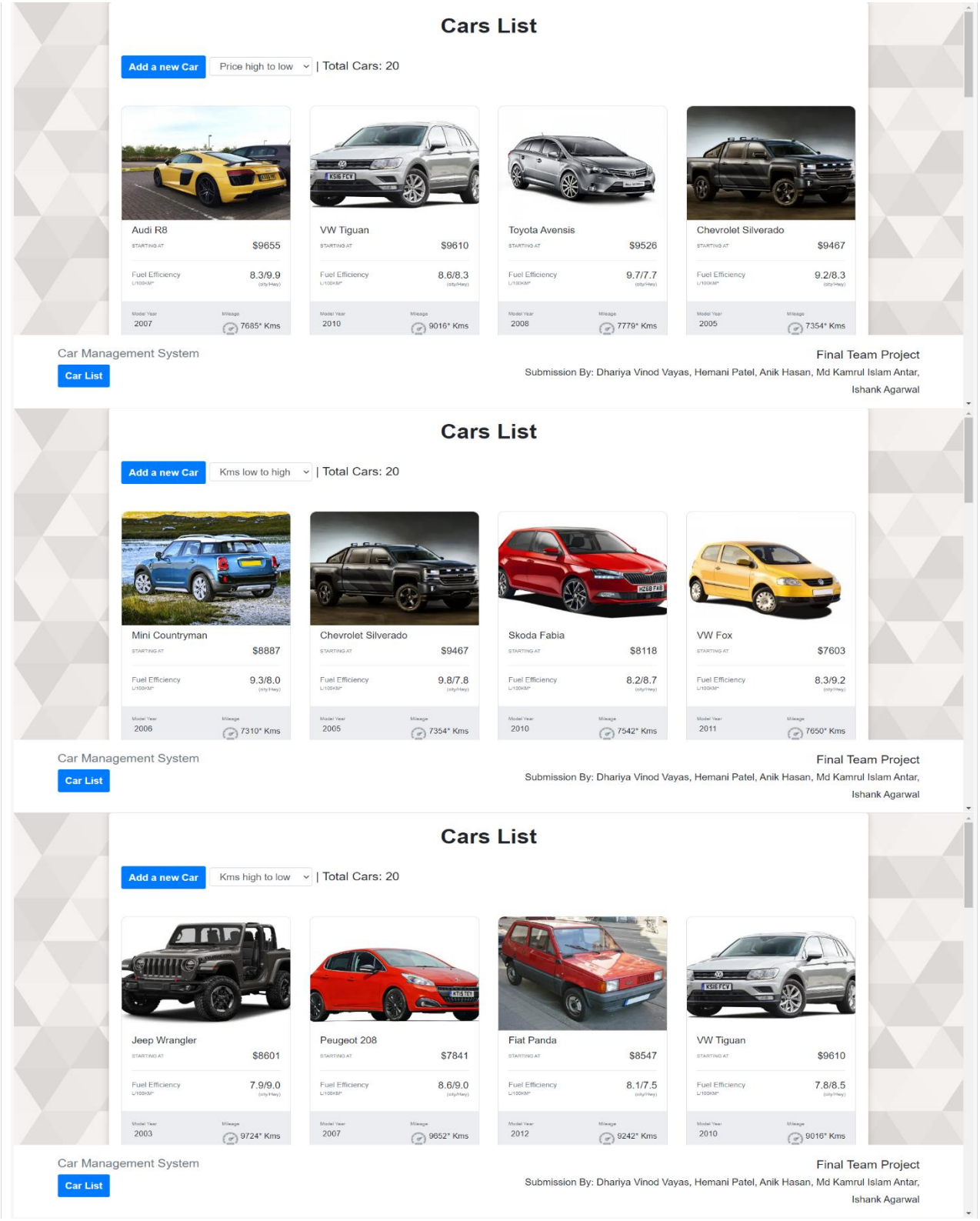

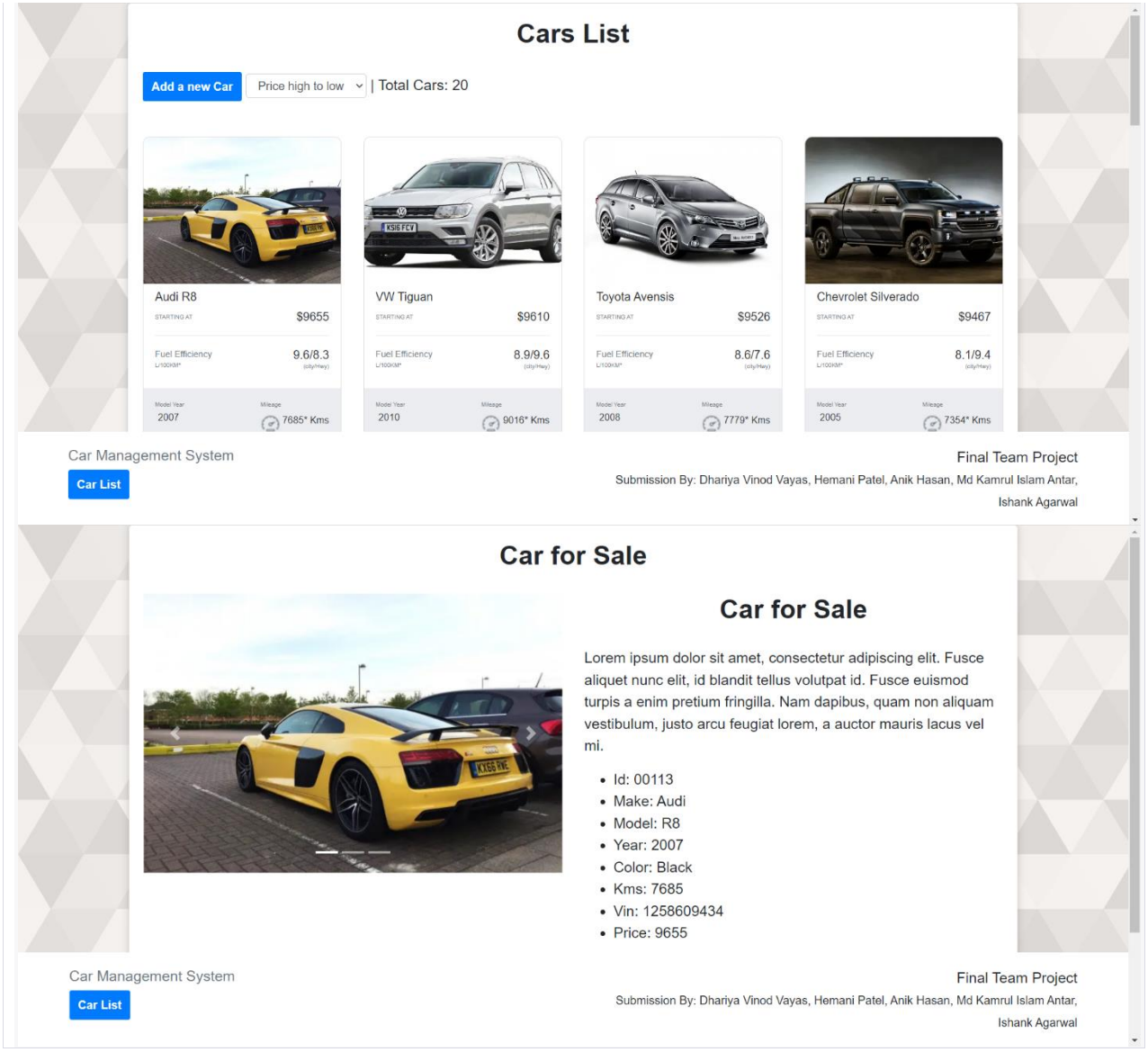

IV. Technical Details

- The website is built using HTML, CSS, JavaScript, and with a JSON database for storing car listings and user information.
- The website uses the Specific information for each car model to display the specification and features.
- The website also uses the Disqus commenting system for community forums and discussion boards.

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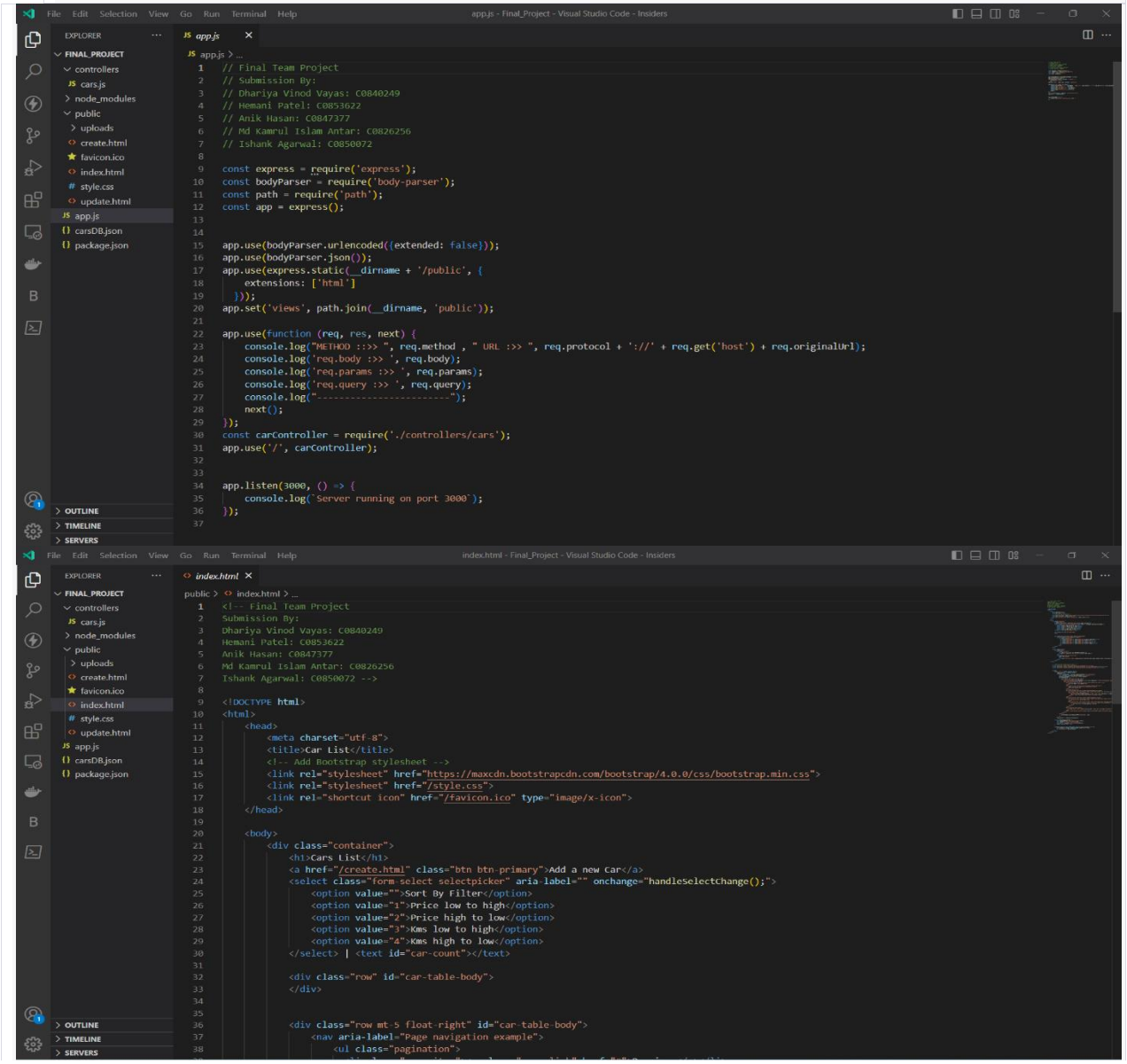

```
// Final Team Project
// Submission By:
// Dhariya Vinod Vayas: C0840249
// Hemani Patel: C0853622
// Anik Hasan: C0847377
// Md Kamrul Islam Antar: C0826256
// Ishank Agarwal: C0850072

const express = require('express');
const bodyParser = require('body-parser');
const path = require('path');
const app = express();


app.use(bodyParser.urlencoded({extended: false}));
app.use(bodyParser.json());
app.use(express.static(__dirname + '/public', {
    extensions: ['html']
  }));
app.set('views', path.join(__dirname, 'public'));

app.use(function (req, res, next) {
    console.log("METHOD ::>> ", req.method , " URL :>> ", req.protocol + '://' + req.get('host') + req.originalUrl);
    console.log('req.body :>> ', req.body);
    console.log('req.params :>> ', req.params);
    console.log('req.query :>> ', req.query);
    console.log("-------------------------");
    next();
});
const carController = require('./controllers/cars');
app.use('/', carController);


app.listen(3000, () => {
    console.log(`Server running on port 3000`);
});
```

```
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<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>Car List</title>
        <!-- Add Bootstrap stylesheet -->
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
        <link rel="stylesheet" href="/style.css">
        <link rel="shortcut icon" href="/favicon.ico" type="image/x-icon">
    </head>

    <body>
        <div class="container">
            <h1>Cars List</h1>
            <a href="/create.html" class="btn btn-primary">Add a new Car</a>
            <select class="form-select selectpicker" aria-label="" onchange="handleSelectChange();">
                <option value="">Sort By Filter</option>
                <option value="1">Price low to high</option>
                <option value="2">Price high to low</option>
                <option value="3">Kms low to high</option>
                <option value="4">Kms high to low</option>
            </select> | <text id="car-count"></text>

            <div class="row" id="car-table-body">
            </div>


            <div class="row mt-5 float-right" id="car-table-body">
                <nav aria-label="Page navigation example">
                    <ul class="pagination">
```

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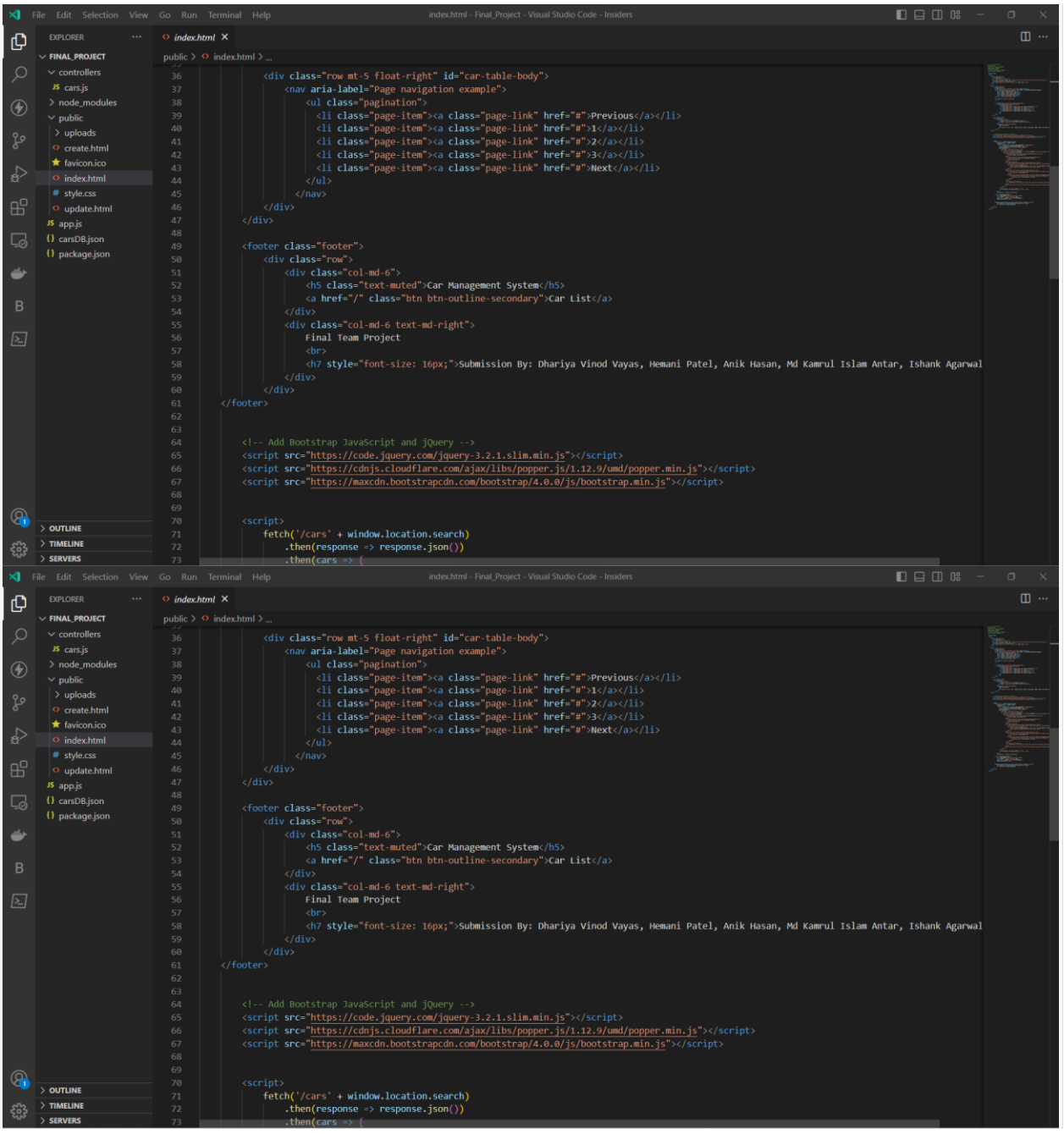

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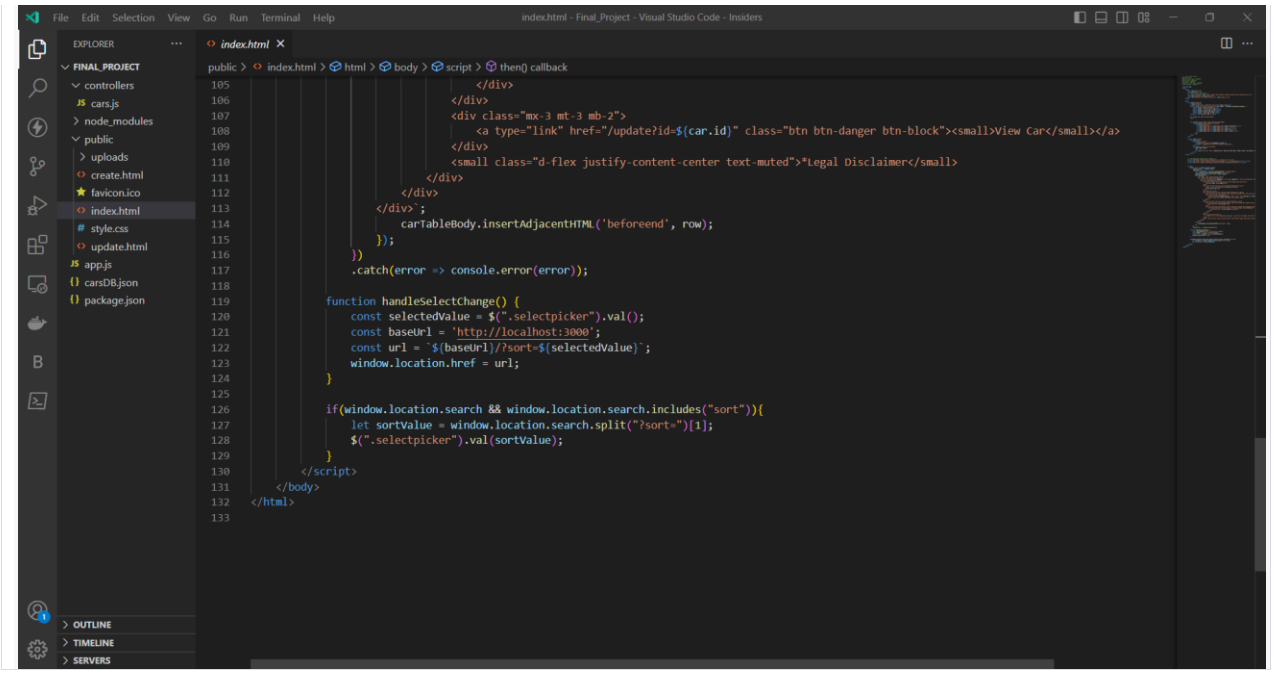


```
                                    </div>
                                </div>
                                <div class="mx-3 mt-3 mb-2">
                                    <a type="link" href="/update?id=${car.id}" class="btn btn-danger btn-block"><small>View Car</small></a>
                                </div>
                                <small class="d-flex justify-content-center text-muted">*Legal Disclaimer</small>
                            </div>
                        </div>
                    </div>`;
                    carTableBody.insertAdjacentHTML('beforeend', row);
                });
            })
            .catch(error => console.error(error));

        function handleSelectChange() {
            const selectedValue = $(".selectpicker").val();
            const baseUrl = 'http://localhost:3000';
            const url = `${baseUrl}/?sort=${selectedValue}`;
            window.location.href = url;
        }

        if(window.location.search && window.location.search.includes("sort")){
            let sortValue = window.location.search.split("?sort=")[1];
            $(".selectpicker").val(sortValue);
        }
    </script>
</body>
</html>
```

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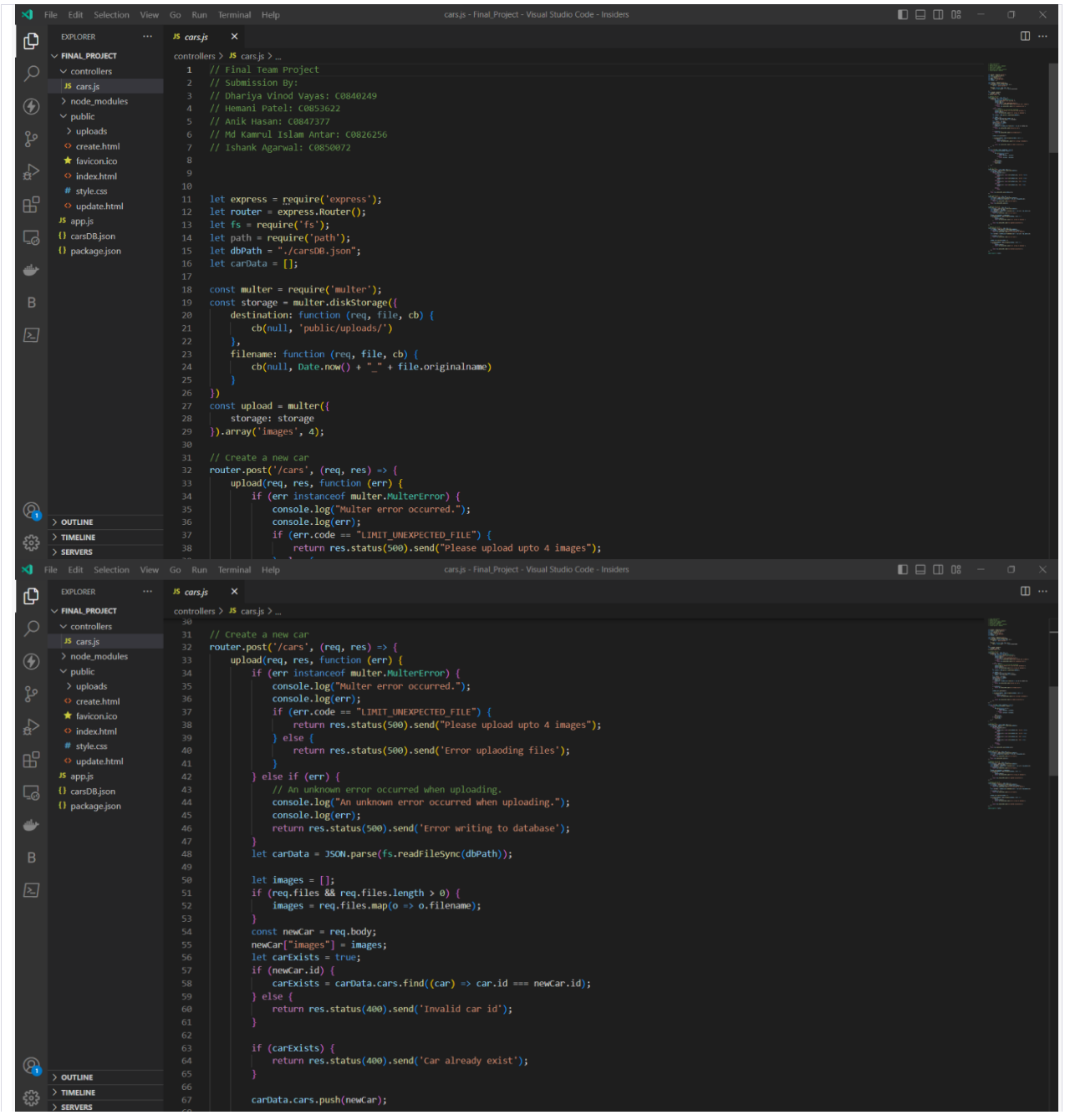

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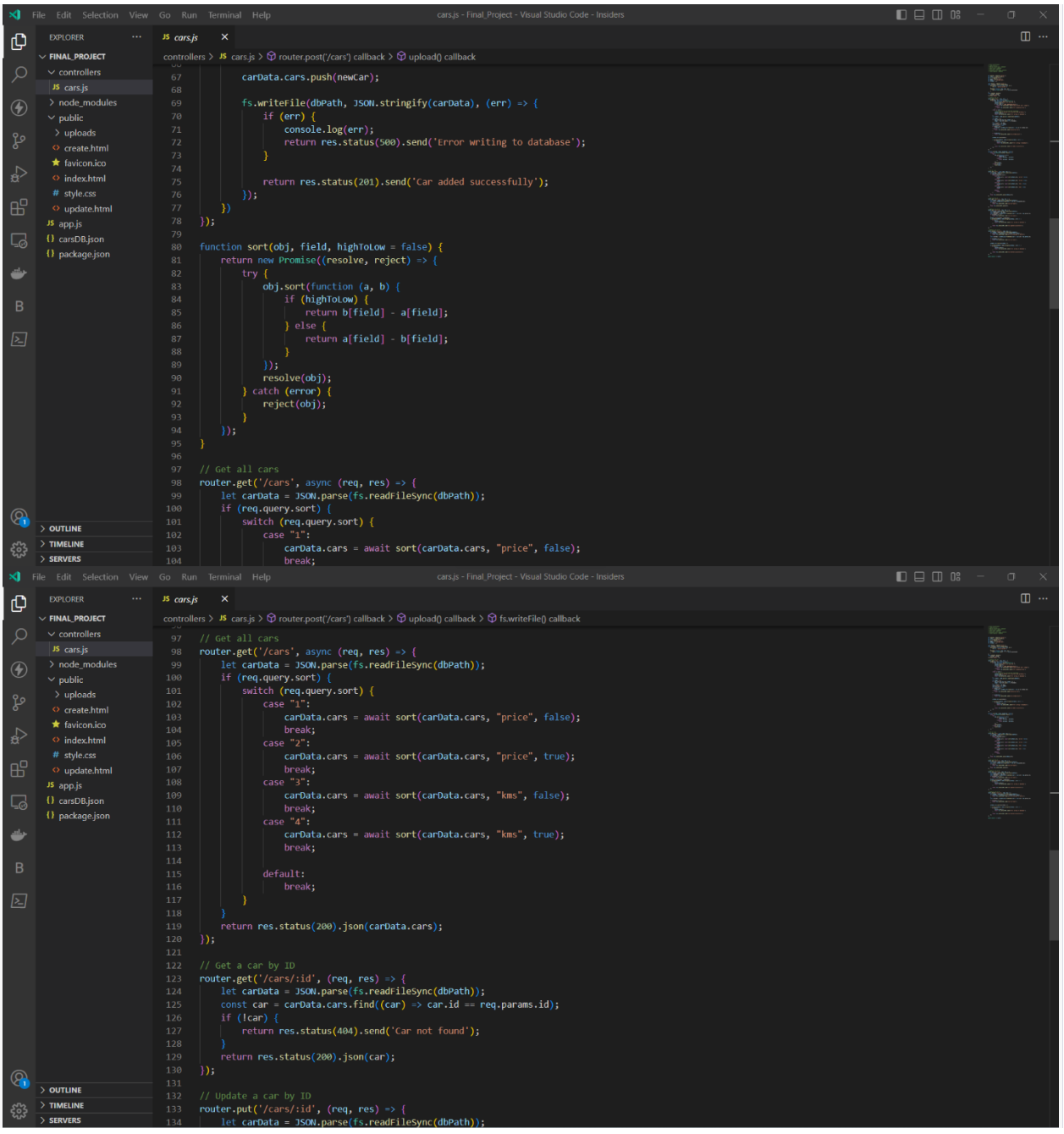

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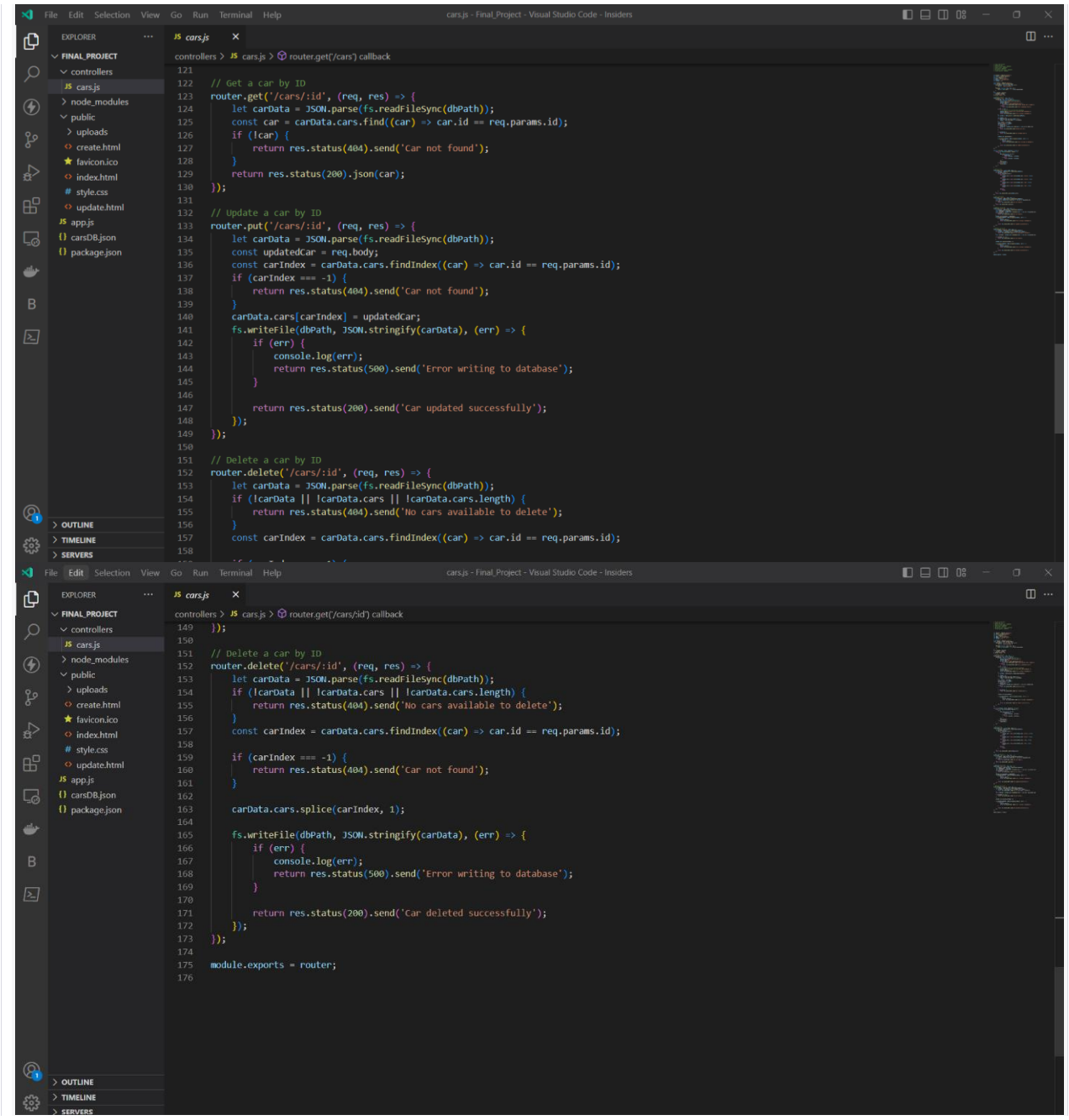

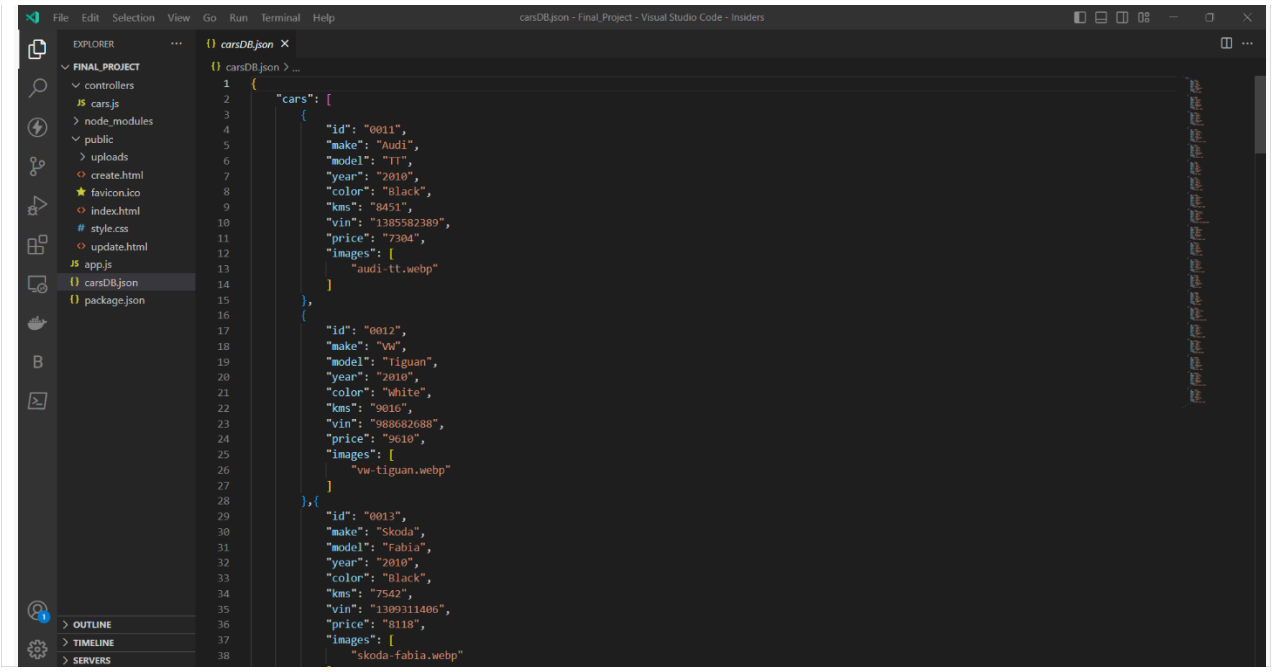

V. Project Management

- The development process of the website followed the Agile methodology, with regular sprints and meetings to ensure progress was being made.
- Challenges faced during development included ensuring the website was scalable and could handle large amounts of traffic, as well as ensuring user privacy and data security.
- These challenges were overcome through careful planning and testing, as well as the implementation of robust security protocols and server infrastructure.

VI. Future Development

- Future features for the website include a mobile app version, additional search criteria such as fuel efficiency and safety ratings, and integration with popular car sales platforms.
- The roadmap for future development includes regular updates and feature additions based on user feedback and market trends.

VII. Conclusion

- The project car list website is a valuable resource for car enthusiasts, providing a comprehensive list of cars for browsing and searching, as well as a platform for users to share their own knowledge and opinions.
- The website's intuitive user interface and comprehensive feature set make it an essential tool for car enthusiasts, and its robust technical infrastructure ensures it will continue to be a valuable resource for years to come.