

CS 6314.001

Web Programming Languages

Fall 2020

# Final Project

**Project Title:** RV Rentals

**Name for The Website:** Tour Explorer

**Team Number:** Team 24

**Team Members:** Ying Gong (yxg190020)

Yanjie Liu (yxl165130)

Jiaqi Ma (jxm190035)

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## **Project Description**

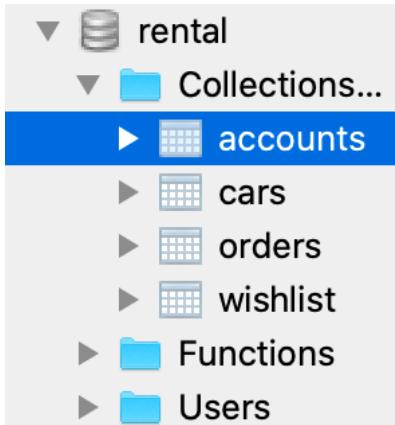
Tour Explorer is an online RV Rentals website made for users to browse, search and make reservations for our RV rental services.

Users can browse different kinds of cars without register/login, or they can choose to register/login to make an order or add their favorite cars to the wish list. Users can also search for a specific name or a specific category of the car on our website. Of course, users can remove item from their wish list at any time they want on the Wishlist page. They can also view the order history when they click their account icon/name.

We also have an admin account which allows admin to view all the cars, add a new car, edit the car information, and soft delete a car from the website by changing its count to 0. When admin soft deletes a car, users cannot see the car on the website anymore, but admin still can see and edit it. So the admin can recover the soft deleted car at any time if he/she wants users to see it again.

## Database Design

MongoDB Database:



Accounts Table:

```
var Account = new Schema({
  username: String,
  password: String,
  isAdmin: { type: Boolean, default: false },
  likedCars: {
    id: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "Car",
    },
  },
});
```

Cars Table:

```
var carSchema = new mongoose.Schema({
  make: String,
  model: String,
  image: String,
  image_l: String,
  price: String,
  type: String,
  passenger: String,
  count: Number,
  location: String,
  description: String,
});
```

Orders Table:

```
var orderSchema = new mongoose.Schema({
  price: Number,
  startdate: String,
  enddate: String,
  userid: String,
  username: String,

  car: {
    id: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "Car",
    },
    make: String,
    model: String,
    image: String,
    // type: String,
    price: Number,
    passenger: String,
  },
});
```

Wishlist Table:

```
var wishlistSchema = new mongoose.Schema({
  userid: String,
  username: String,

  car: [
    id: {
      type: mongoose.Schema.Types.ObjectId,
      ref: "Car",
    },
    make: String,
    model: String,
    image: String,
    // type: String,
    price: Number,
    passenger: String,
  ],
  carmodel: String,
});
```

## **Languages/Frameworks Used for Implementation**

Backend:      Node.js  
                  Express.js

Database:     MongoDB

Front-end:     Html  
                  CSS  
                  Bootstrap  
                  jQuery  
                  AJAX

## Screenshots for Main Functionalities

Signup:

# Sign up

test

Valid Username

.....

Weak

[Go Back](#)

Login:

# User Login

Enter username

Password

Filter - Search:

# Welcome to Tour Explorer

Start your travel in the world!

All



[pegasus](#)

Filter - Category:

# Welcome to Tour Explorer

Start your travel in the world!

I

trailer



[pegasus](#)



[Cypress Luxury caravan](#)



[Images](#)

Order/Checkout:

## Order Details

Please confirm the information about your car:



Make: Bounder Fleetwood

RV

Passengers: 10

Model: Bounder Fleetwood  
RV

Type: classA

Pickup Date: 12/05/2020

Daily Price: \$400/day

Return Date: 12/15/2020

Total Price: \$4400

[Back to Home](#)

Wishlist:

Tour Explorer Home

test Wishlist Logout



Make: pegasus

Passenger: 5

Model: pegasus

Price: \$200/day

Are designed to be towed by a range of vehicles, from family sedans and minivans to crossovers and SUVs. Some are light enough to be towed by motorcycles. Sizes range from 8 to 40 feet, there is a travel trailer to match most of the family vehicles on the road today.

[Add to Wishlist](#)



[Rent Today!](#)

[Back to list](#)

# Hello test

## Here is your Wishlist



Make: pegasus

Passengers: 5

Model: pegasus

Daily Price: \$200/day

[Remove from Wishlist](#)



Make: Cypress Luxury caravan

Passengers: 7

Model: Cypress Luxury caravan

Daily Price: \$350/day

[Remove from Wishlist](#)



Make: Ikon Freightliner

Passengers: 10

Model: Ikon Freightliner

Daily Price: \$300/day

[Remove from Wishlist](#)

[Back to Home](#)

## Here is your Wishlist



Make: Ikon Freightliner

Passengers: 10

Model: Ikon Freightliner

Daily Price: \$300/day

[Remove from Wishlist](#)

[Back to Home](#)

# **Work Division among Team Members**

All Members:

- Design all the tables and relationships needed for RV Rental system
- Design website UI
- Each member works on the backend scripting, front-end scripting and also the communication between backend and front-end for the pages/functionalities he/she is responsible for as below.

Ying Gong (yxg190020):

- Establish/Manage/Maintain MongoDB Database  
(Let only one team member to manage/maintain the Database to avoid confliction)
- Home page
- User Signup page
- User Login page
- User logout functionality
- Admin: Soft Delete a Car functionality

Yanjie Liu (yxl165130):

- Product Detail page
- Rent Today page
- Order Details/Checkout page
- Order History page (Click the account icon/name)
- Wishlist page
- Add item to wish list
- Remove item from wish list

Jiaqi Ma (jxm190035):

- All CSS  
(Let only one team member to manage CSS to avoid confliction)
- List Available Products/Services in the System page

- Paging functionality
- Filter functionality
- Admin: Add a New Car page
- Admin: Edit the Car Info page