

HOUSEHUNT

Finding Your Perfect Rental Home

1. Introduction

- **Project Title:** HOUSEHUNT-Finding your perfect Rental Home
- **Team Members:**
 - *Amrutha Varshini*—Full pStack Developer
 - *Sindhu*— Database Administrator
 - *Mahita*— Deployment/DevOps Engineer
 - *Krupa* – Quality Analyst

2. Project Overview

- **Purpose:**

The purpose of House Hunt is to streamline the real estate journey by providing a comprehensive, user-friendly platform that connects home buyers, sellers, renters, and real estate professionals. It aims to simplify the often complex and time-consuming process of searching for or listing a property, offering tools and resources that enhance the experience for all parties involved.

Features:

- Advanced Property Search
- Interactive Property Listings
- Market Insights and Trends
- Property Alerts
- Professional Connection

Architecture:

- **Frontend:**
 - API calls with **Axios React**: JavaScript library used for building the user interface.
 - **Bootstrap & react-bootstrap**: Used for responsive layout and basic styling components.
 - **Material UI (MUI)**: Provides modern UI components with built-in responsiveness.
 - **Ant Design (Antd)**: Added for rich and customizable component libraries.
 - **MDB React UI Kit**: For elegant and Material Design-inspired components.
 - **Axios**: Handles API calls to the backend server.
 - **Moment.js**: Used for parsing, validating, and formatting dates in the UI.
- **Backend:**
 - Set up **Express.js** server and created `index.js` in the backend folder.
 - Configured `.env` file with **PORT**, **MongoDB URI**, and **JWT Secret**.
 - Added **CORS** and **body-parser** for API request handling.
 - Implemented authentication using `authMiddleware.js` inside a `middleware` folder.
- **Database:**
 - **MongoDB** (NoSQL database) with **Mongoose** for schema modeling
 - Collections : `Users` ,`Courses` ,`Enrollments` ,`Reviews`
 - Relationships:
 - One-to-many(`Teacher`→`Courses`)
 - Many-to-many(`Student`↔`Courses` through `Enrollment`)

3. Setup Instructions

- **Prerequisites:**
 - Node.js v18+
 - MongoDB
 - Git
 - npm or yarn
- **Installation:**

```

S:\>cd House Hunt
The system cannot find the path specified.

S:\>cd House hunt

S:\House hunt> cd frontend

S:\House hunt\frontend> npm install

up to date, audited 1628 packages in 10s

252 packages are looking for funding
  run 'npm fund' for details

34 vulnerabilities (4 low, 13 moderate, 16 high, 1 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run 'npm audit' for details.

S:\House hunt\frontend>npm start

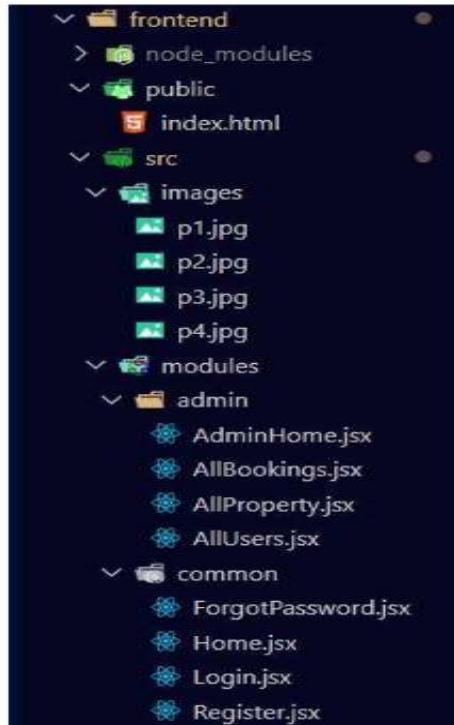
> frontend@0.1.0 start
> react-scripts start

```

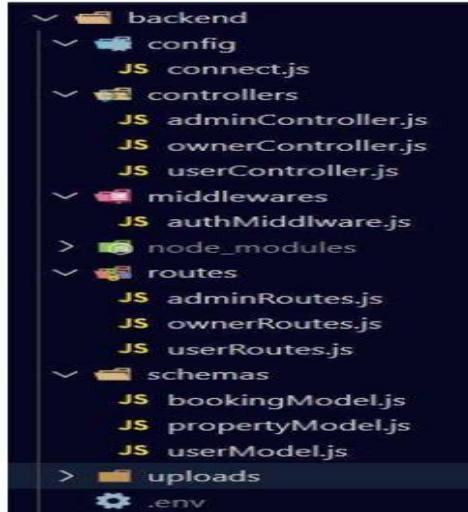
S

4. Folder Structure

- Client(React):



- Server(Node.js):



5. Running the Application

- Frontend:

```
cd frontend
npm start
```

- Backend:

```
cd backend
npm run dev
```

6. API Documentation

Endpoint	Method	Description	Auth Required
/api/auth/register	POST	Register a new user (renter or owner)	<input checked="" type="checkbox"/> No
/api/auth/login	POST	Login and receive JWT token	<input checked="" type="checkbox"/> No
/api/properties	GET	Get all available rental properties	<input checked="" type="checkbox"/> No
/api/bookings	POST	Book a property (send inquiry to owner)	<input checked="" type="checkbox"/> Yes (Renter)
/api/properties	POST	Add a new property (after owner approval)	<input checked="" type="checkbox"/> Yes (Owner)

Sample Request:

POST/api/auth/register

```
JS const User = require("../models/User"); Untitled-1 ●

1  const User = require("../models/User");
2  const bcrypt = require("bcryptjs");
3
4  exports.register = async (req, res) => {
5      const { name, email, password, type } = req.body;
6
7      try {
8          const existingUser = await User.findOne({ email });
9          if (existingUser)
10              return res.status(400).json({ message: "User already exists" });
11
12          const hashedPassword = await bcrypt.hash(password, 10);
13
14          const newUser = new User({
15              name,
16              email,
17              password: hashedPassword,
18              type
19          });
20
21          await newUser.save();
22          res.status(201).json({ message: "User registered successfully" });
23
24      } catch (err) {
25          res.status(500).json({ message: "Registration failed", error: err.message });
26      }
27  };
28
29
```

Sample Response:

```
{
    "message": "User registered successfully",
    "token": "JWT_TOKEN_HERE"
}
```

7. Authentication

- **Method Used :**(JSON Web)

The screenshot shows a GitHub repository page for 'House_Hunt' with the 'backend' branch selected. The 'package.json' file is open. The left sidebar shows the project structure with 'main' selected. The right panel displays the contents of the package.json file:

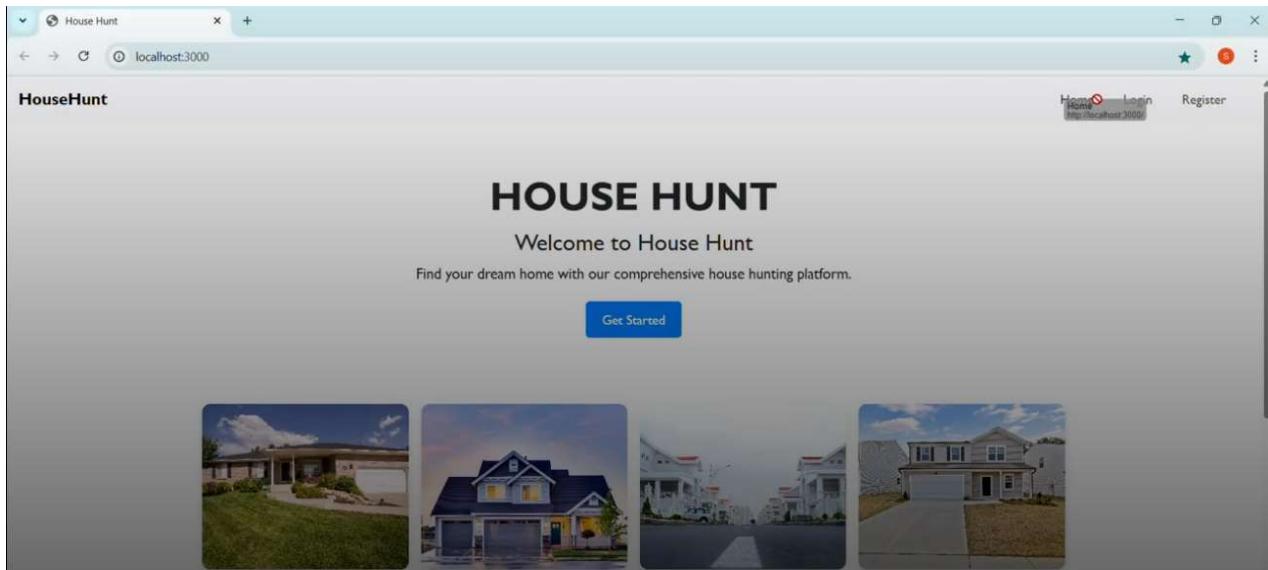
```
1  {
2    "name": "backend",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "start": "nodemon index",
8      "test": "echo \\\"Error: no test specified\\\" && exit 1"
9    },
10   "keywords": [],
11   "author": "",
12   "license": "ISC",
13   "dependencies": {
14     "bcryptjs": "^2.4.3",
15     "cors": "^2.8.5",
16     "dotenv": "^16.3.1",
17     "express": "4.18.2",
18     "jsonwebtoken": "^8.0.1",
19     "mongoose": "^7.4.3",
20     "multer": "^1.4.5-lts.1",
21     "nodemon": "3.0.1"
22   }
23 }
```

- **Workflow:**

- **User logs in** → receives a **JWT token**, which is stored in the browser (local Storage).
- **Token is verified** on each request using middleware to protect renter, owner, and admin routes
- **Role-based actions**

8. User Interface

- **Property Listings Page** - View all available rental card/grid layout and images.
- **Filter/Search Properties** - Location, type, price range, and availability filters.
- **Get Info / Contact Form**



- My Bookings Dashboard - View current booking status: pending, approved, rejected.
- Profile Page - View personal info and booking history (optional)

9. Testing

Tools Used: Postman , MongoDB Compass ,Console Logs & DevTools , JWT Debugger

- **Strategy:**
 - Unit tests for backend logic
 - Integration tests for routes and middleware
 - Manual testing for frontend components
 - API testing with Postman

10. Screenshots or Demo

- **Demo:** Live Site
- **Screenshots:**

sindhukonny / House_Hunt Public

Code Issues Pull requests Actions Projects Security Insights

Files

main Go to file

backend config controllers middlewares routes schemas uploads .gitignore index.js package-lock.json package.json frontend

House_Hunt / backend / index.js

sindhukonny House Hunt Project Added

Code Blame 36 lines (23 loc) · 796 Bytes

```
1 const express = require("express");
2 const dotenv = require("dotenv");
3 const cors = require("cors");
4 const connectionofDb = require("./config/connect.js");
5 const path = require("path");
6
7 const app = express();
8
9 ///////////////dotenv config///////////////////
10 dotenv.config();
11
12 //////////connection to DB/////////////////
13 connectionofDb();
14
15
16 const PORT = process.env.PORT || 8001;
17
```

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Files

main Go to file

HouseHunt_Screenshots backend config controllers middlewares routes adminRoutes.js ownerRoutes.js userRoutes.js schemas uploads

House_Hunt / backend / routes / adminRoutes.js

sindhukonny House Hunt Project Added 3833525 · 11 hours ago History

Code Blame 15 lines (9 loc) · 594 Bytes

Raw

```
1 const express = require("express");
2 const authMiddleware = require("../middlewares/authMiddleware");
3 const { getAllUsersController, handleStatusController, getAllPropertiesController, getAllBookingsController } = require("../controllers/admin");
4
5 const router = express.Router()
6
7 router.get('/getallusers', authMiddleware, getAllUsersController)
8
9 router.post('/handlestatus', authMiddleware, handleStatusController)
10
11 router.get('/getallproperties', authMiddleware, getAllPropertiesController)
12
13 router.get('/getallbookings', authMiddleware, getAllBookingsController)
14
15 module.exports = router
```

```

1  const express = require("express");
2  const authMiddleware = require("../middlewares/authMiddleware");
3
4  const {
5    registerController,
6    loginController,
7    forgotPasswordController,
8    authController,
9    getAllPropertiesController,
10   bookingHandleController,
11   getAllBookingsController,
12 } = require("../controllers/userController");
13
14 const router = express.Router();
15
16 router.post("/register", registerController);
17
18 router.post("/login", loginController);
19
20 router.post("/forgotpassword", forgotPasswordController);
21
22 router.get('/getAllProperties', getAllPropertiesController)
23
24
25 router.post("/getuserdata", authMiddleware, authController);
26

```

11. Known Issues

- No Form Validation React forms don't yet validate empty fields or email format
- Admin Role Hardcoded Admin access is set manually; no dynamic role elevation
- Passwords in Plain Text (frontend) Password fields are not obscured during request logs
- No Pagination All properties load at once, not optimized for large data sets

12. Future Enhancements

- Two-Factor Authentication
Improve login security with OTP or email verification
- Property Tags & Filters
Allow search by amenities like "AC", "Parking", "Furnished"
- Mobile App (React Native)
Launch a cross-platform mobile version

- E-Signed Lease Documents
 - Integrate digital contracts for renters and owner
- Admin Analytics
 - Graphical dashboard showing property stats, users, etc
- Cloud Storage
 - Upload property images to AWS S3 or Cloud
- Map Integration
 - Use Google Maps API to view properties on map