

ONLINE COMPLAINT REGISTRATION AND MANAGEMENT SYSTEM

INTRODUCTION

An online complaint registration and management system is a software application or platform that allows individuals or organizations to submit and track complaints or issues they have encountered.

- **Project Title:** Online Complaint Registration and Management System
- **Team Members:**

Member Name	Role
John Victor	Frontend, Project Implementation & Project setup and configuration
Dabbakuti Veera Venkata Manikanta Raju	Backend
Leeladhar Aakuraathi	Database
V Sasi Kumar	Project setup and configuration

DESCRIPTION

The Online Complaint Registration and Management System is a user-friendly software solution designed to streamline the process of submitting, tracking, and resolving complaints or issues encountered by individuals or organizations. It provides a centralized platform for efficient complaint management, allowing users to securely register complaints, track their progress in real time, and interact with assigned agents for issue resolution. With features such as automatic notifications, intelligent complaint routing, and robust security measures, this system ensures timely and effective handling of complaints while prioritizing user Details.

It can help optimize the complaint-handling process and empower organizations to develop a safety management system to efficiently resolve customer complaints while staying in line with industry guidelines and regulatory compliance obligations. It provides a centralized platform for managing complaints, streamlining the complaint resolution process, and improving customer satisfaction.

It consists of some key features which include:

1. User registration: Users can create accounts to submit complaints and track their progress.
2. Complaint submission: Users can enter details of their complaints, including relevant information such as name, description of the issue, address, etc.
3. Tracking and notifications: Users can track the progress of their complaints, view updates, and receive notifications via email or SMS when there are any changes or resolutions.
4. Users can interact with the agent who has assigned the complaint.
5. Assigning and routing complaints: The system assigns complaints to the appropriate department or personnel responsible for handling them. It may use intelligent routing algorithms to ensure efficient allocation of resources.
6. Security and confidentiality: The system ensures the security and confidentiality of user data and complaint information through measures such as user authentication, data encryption, access controls, and compliance with relevant data protection regulations.

SCENARIO-BASED CASE STUDY

Scenario: John, a customer, recently encountered a problem with a product he purchased online. He notices a defect in the item and decides to file a complaint using the Online Complaint Registration and Management System.

1. User Registration and Login:

- John visits the complaint management system's website and clicks on the "Sign Up" button to create a new account.
- He fills out the registration form, providing his full name, email address, and a secure password.
- After submitting the form, John receives a verification email and confirms his account.
- He then logs into the system using his email and password.

2. Complaint Submission:

- Upon logging in, John is redirected to the dashboard where he sees options to register a new complaint.
- He clicks on the "Submit Complaint" button and fills out the complaint form.
- John describes the issue in detail, attaches relevant documents or images showcasing the defect, and provides additional information such as his contact details and the product's purchase date.
- After reviewing the information, John submits the complaint.

3. Tracking and Notifications:

- After submitting the complaint, John receives a confirmation message indicating that his complaint has been successfully registered.
- He navigates to the "My Complaints" section of the dashboard, where he can track the status of his complaint in real time.
- John receives email notifications whenever there is an update on his complaint, such as it being assigned to an agent or its resolution status.

4. Interaction with Agent:

- A customer service agent, Sarah, is assigned to handle John's complaint.
- Sarah reviews the details provided by John and contacts him through the system's built-in messaging feature.
- John receives a notification about Sarah's message and accesses the chat window to communicate with her.
- They discuss the issue further, and Sarah assures John that the company will investigate and resolve the problem promptly.

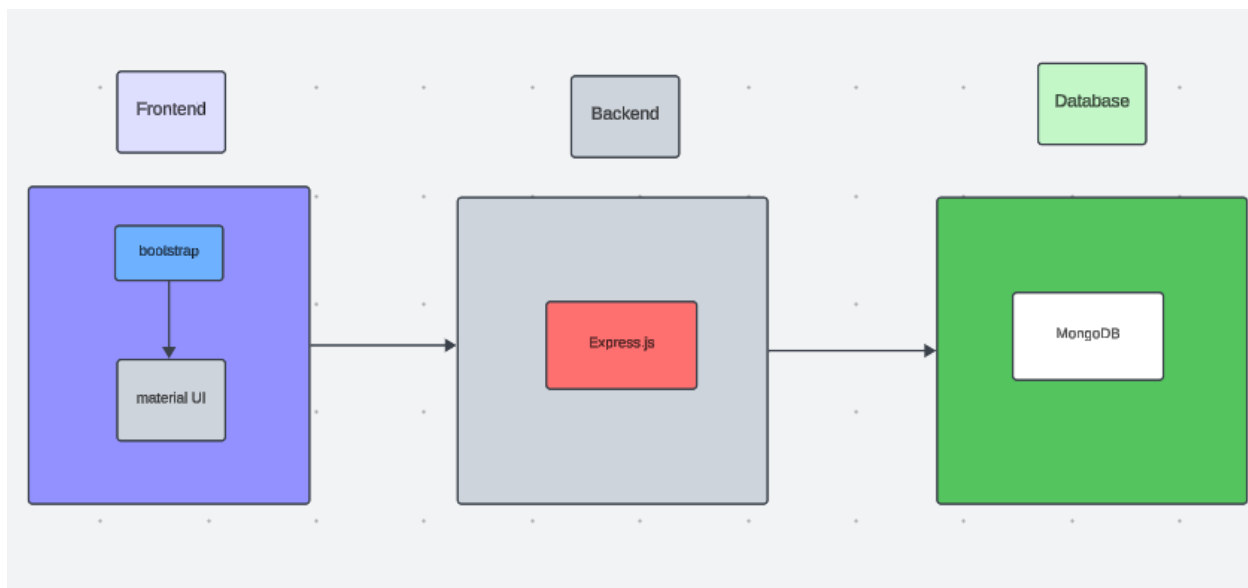
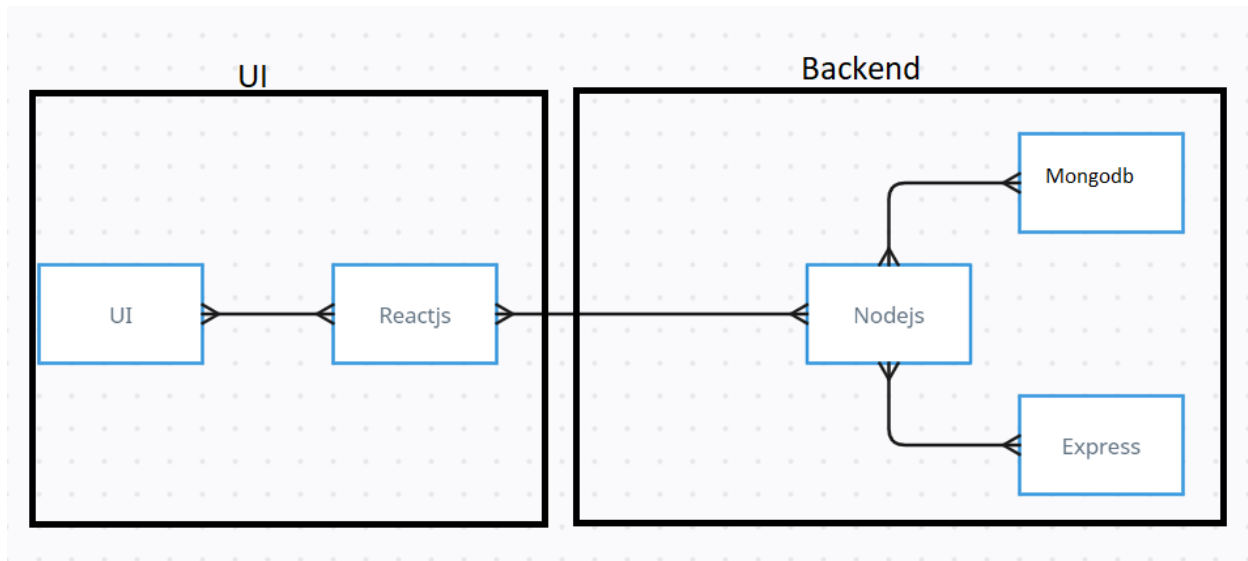
5. Resolution and Feedback:

- After investigating the complaint, the company identifies the defect in the product and offers John a replacement or refund.
- John receives a notification informing him of the resolution, along with instructions on how to proceed.
- He provides feedback on his experience with the complaint handling process, expressing his satisfaction with the prompt resolution and courteous service provided by Sarah.

6. Admin Management:

- Meanwhile, the system administrator monitors all complaints registered on the platform.
- The admin assigns complaints to agents based on their workload and expertise.
- They oversee the overall operation of the complaint management system, ensuring compliance with platform policies and regulations.

TECHNICAL ARCHITECTURE



The technical architecture of our online complaint registration and management app follows a client-server model, where the front end serves as the client and the back end acts as the server. The front end encompasses the user interface and presentation and incorporates the Axios library to connect with the backend easily by using RESTful Apis.

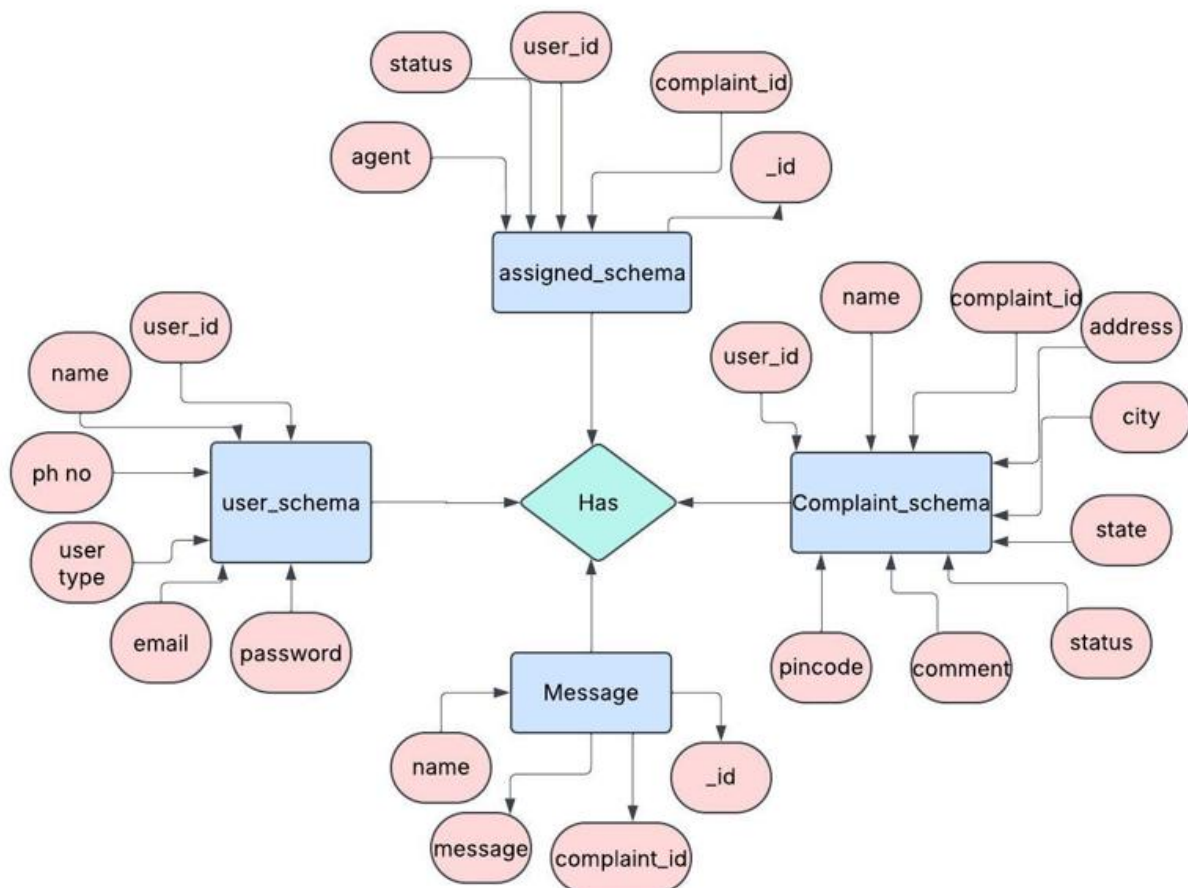
The front end utilizes the bootstrap and material UI library to establish a real-time and better UI experience for any user whether it is an agent, admin, or ordinary user working on it.

On the backend side, we employ Express.js frameworks to handle the server-side logic and communication.

For data storage and retrieval, our backend relies on MongoDB. MongoDB allows for efficient and scalable storage of user data, including user profiles, complaints registration, etc. It ensures reliable and quick access to the necessary information during registration of users or any complaints.

Together, the frontend and backend components, along with socket.io, Express.js, WebRTC API, and MongoDB, form a comprehensive technical architecture for our video conference app. This architecture enables real-time communication, efficient data exchange, and seamless integration, ensuring a smooth and immersive video conferencing experience for all users.

ER DIAGRAM



This is the ER diagram of the project which shows the relationship between the user and the agent. It shows how users who have required fields can raise a complaint by filling required fields.

It illustrates how these entities relate to each other, helping us understand the underlying database structure and the flow of information within the app. He / She can also communicate with the agent with a chat window that follows the message schema which uses userId and complaintId from other schemas.

PRE-REQUISITES:

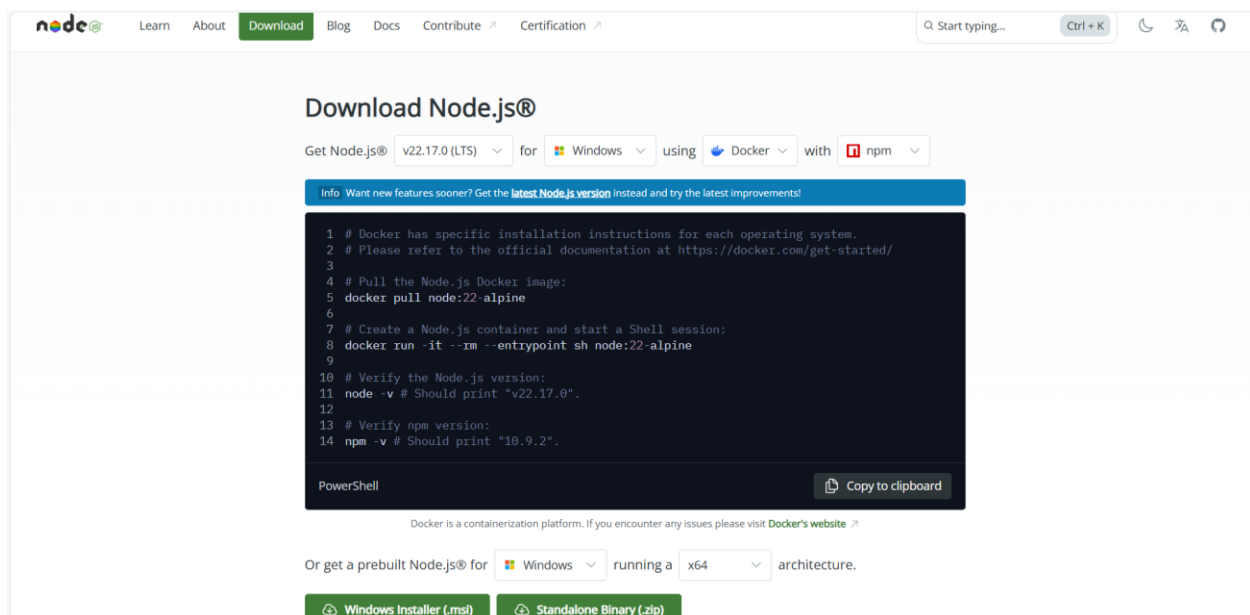
Here are the key prerequisites for developing a full-stack application using Node.js, Express.js, MongoDB, and React.js:

Node.js and npm:

Node.js is a powerful JavaScript runtime environment that allows you to run JavaScript code on the server side. It provides a scalable and efficient platform for building network applications. Install Node.js and npm on your development machine, as they are required to run JavaScript on the server side.

Download: <https://nodejs.org/en/download/>

Installation instructions: <https://nodejs.org/en/download/package-manager/>



The screenshot shows the Node.js download page. At the top, there's a navigation bar with links: Learn, About, Download (highlighted), Blog, Docs, Contribute, and Certification. A search bar is on the right. The main heading is "Download Node.js®". Below it, there are dropdown menus to select the version (v22.17.0 LTS), operating system (Windows), installation method (Docker), and package manager (npm). A blue info banner suggests getting the latest version. The central part features a PowerShell terminal window with the following commands and comments:

```
1 # Docker has specific installation instructions for each operating system.
2 # Please refer to the official documentation at https://docker.com/get-started/
3
4 # Pull the Node.js Docker image:
5 docker pull node:22-alpine
6
7 # Create a Node.js container and start a Shell session:
8 docker run -it --rm --entrypoint sh node:22-alpine
9
10 # Verify the Node.js version:
11 node -v # Should print "v22.17.0".
12
13 # Verify npm version:
14 npm -v # Should print "10.9.2".
```

Below the terminal is a "Copy to clipboard" button. A note mentions Docker as a containerization platform. At the bottom, there are options to get a prebuilt Node.js for Windows (x64 architecture) with links for "Windows Installer (.msi)" and "Standalone Binary (.zip)".

Express.js:

Express.js is a fast and minimalist web application framework for Node.js. It simplifies the process of creating robust APIs and web applications, offering features like routing, middleware support, and modular architecture.

Install Express.js, a web application framework for Node.js, which handles server-side routing, middleware, and API development.

Installation: Open your command prompt or terminal and run the following command:

npm install express

MongoDB:

MongoDB is a flexible and scalable NoSQL database that stores data in a JSON-like format. It provides high performance, horizontal scalability, and seamless integration with Node.js, making it ideal for handling large amounts of structured and unstructured data.

Set up a MongoDB database to store your application's data.

Download: <https://www.mongodb.com/try/download/community>

Installation instructions: <https://docs.mongodb.com/manual/installation/>

```
$ brew install mongodb-atlas
$ atlas setup
```

Version

8.0.11 (current)

Platform

Windows x64

Package

msi

Download

Copy link

More Options

React.js:

React.js is a popular JavaScript library for building user interfaces. It enables developers to create interactive and reusable UI components, making it easier to build dynamic and responsive web applications.

Install React.js, a JavaScript library for building user interfaces.

Follow the installation guide: <https://reactjs.org/docs/create-a-new-react-app.html>

React Router (v7)

React Router is the most popular routing library for React and can be paired with Vite to create a full-stack React framework. It emphasizes standard Web APIs and has several [ready to deploy templates](#) for various JavaScript runtimes and platforms.

To create a new React Router framework project, run:

```
Terminal
npx create-react-router@latest
```

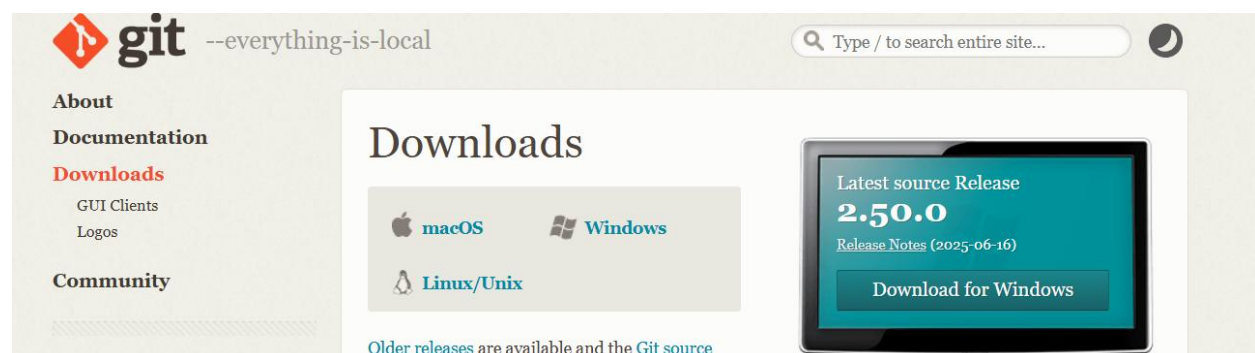
HTML, CSS, and JavaScript: Basic knowledge of HTML for creating the structure of your app, CSS for styling, and JavaScript for client-side interactivity is essential.

Database Connectivity: Use a MongoDB driver or an Object-Document Mapping (ODM) library like Mongoose to connect your Node.js server with the MongoDB database and perform CRUD (Create, Read, Update, Delete) operations. To Connect the Database with Node JS go through the below provided link:

<https://www.section.io/engineering-education/nodejs-mongoosejs-mongodb/>

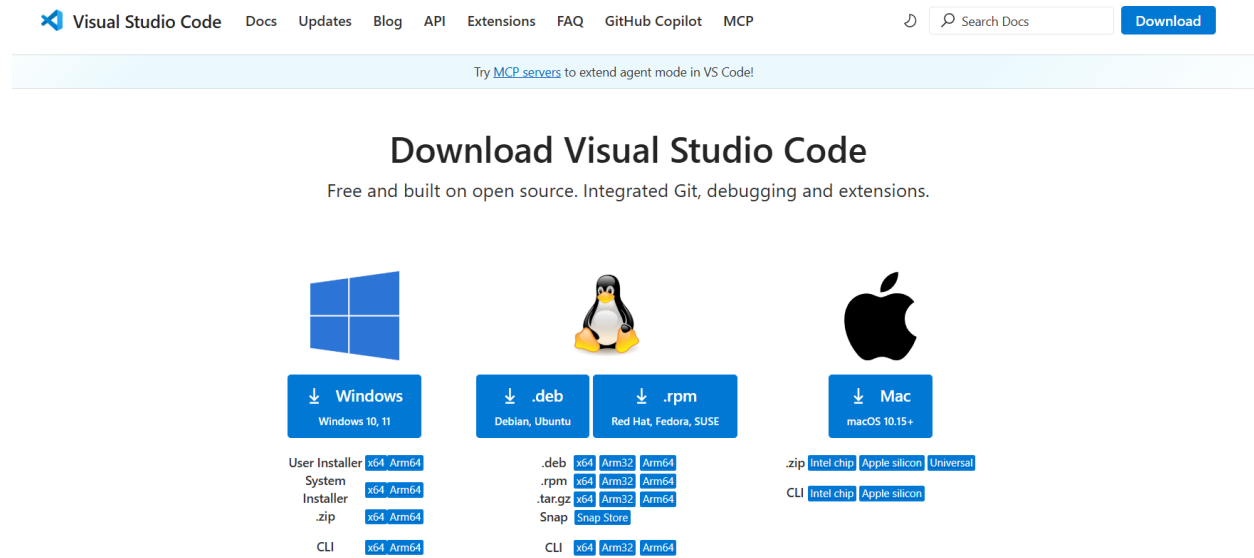
Version Control: Use Git for version control, enabling collaboration and tracking changes throughout the development process. Platforms like GitHub or Bitbucket can host your repository.

Git: Download and installation instructions can be found at: <https://git-scm.com/downloads>



Development Environment: Choose a code editor or Integrated Development Environment (IDE) that suits your preferences, such as Visual Studio Code, Sublime Text, or WebStorm.

- Visual Studio Code: Download from <https://code.visualstudio.com/download>



The image shows the Visual Studio Code download page. At the top, there's a navigation bar with links: Visual Studio Code, Docs, Updates, Blog, API, Extensions, FAQ, GitHub Copilot, and MCP. A search bar and a 'Download' button are on the right. Below the navigation bar, a banner says 'Try MCP servers to extend agent mode in VS Code!'. The main heading is 'Download Visual Studio Code', followed by the tagline 'Free and built on open source. Integrated Git, debugging and extensions.' Below this, there are three main sections for operating systems: Windows, Linux, and Mac. Each section has a download button and a list of available installers. Windows installers include User Installer, System Installer, and .zip, all for x64 and Arm64. Linux installers include .deb, .rpm, .tar.gz, and Snap, with x64, Arm32, and Arm64 options. Mac installers include .zip and CLI, with Intel chip, Apple silicon, and Universal options.

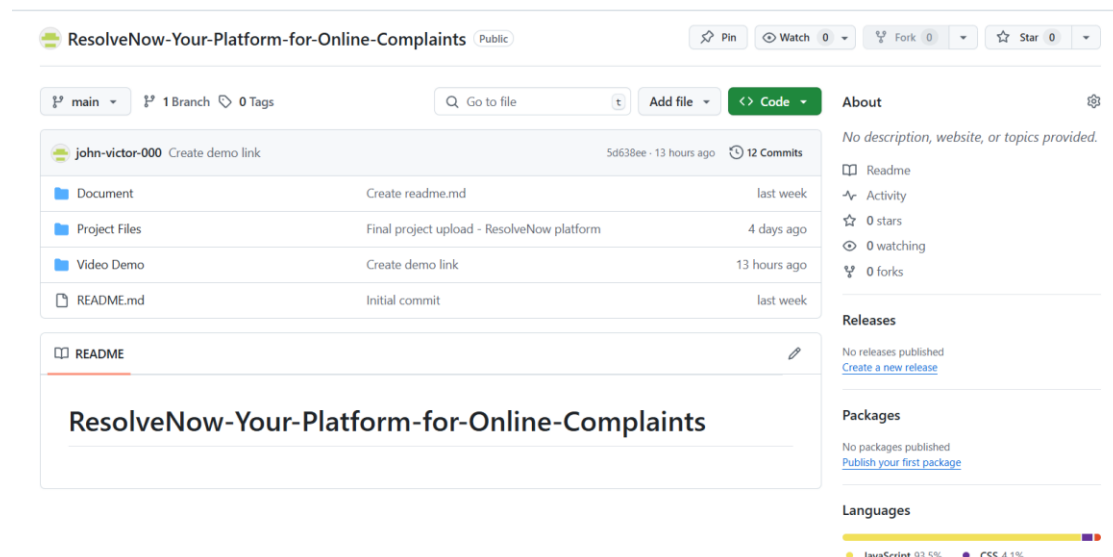
Operating System	Installer Type	Architecture	
Windows	User Installer	x64, Arm64	
	System Installer	x64, Arm64	
	.zip	x64, Arm64	
	CLI	x64, Arm64	
	Linux	.deb	x64, Arm32, Arm64
		.rpm	x64, Arm32, Arm64
.tar.gz		x64, Arm32, Arm64	
Snap		x64, Arm32, Arm64	
Mac		.zip	Intel chip, Apple silicon, Universal
		CLI	Intel chip, Apple silicon

To run the existing Video Conference App project downloaded from GitHub:
Follow the below steps:

Clone the Repository:

- Open your terminal or command prompt.
- Navigate to the directory where you want to store the e-commerce app.
- Execute the following command to clone the repository:

git clone: <https://github.com/john-victor-000/ResolveNow-Your-Platform-for-Online-Complaints.git>



The image shows the GitHub repository page for 'ResolveNow-Your-Platform-for-Online-Complaints'. The repository is public and has 12 commits. The commit history shows: 'Document' (Create readme.md, last week), 'Project Files' (Final project upload - ResolveNow platform, 4 days ago), 'Video Demo' (Create demo link, 13 hours ago), and 'README.md' (Initial commit, last week). The README section is titled 'ResolveNow-Your-Platform-for-Online-Complaints'. The right sidebar shows repository statistics: 0 stars, 0 watching, 0 forks. It also has sections for Releases, Packages, and Languages, all showing 'No releases/published'.

Install Dependencies:

- Navigate into the cloned repository directory:
cd complaint-register
- Install the required dependencies by running the following commands:
cd frontend
npm install
cd ../backend
npm install

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\Mini Project(4-1)\ResolveNow-Your-Platform-for-Online-Complaints\Project Files\backend> npm install
```

Start the Development Server:

- To start the development server, execute the following command:
npm start

```
PS D:\Mini Project(4-1)\ResolveNow-Your-Platform-for-Online-Complaints\Project Files\backend> npm start

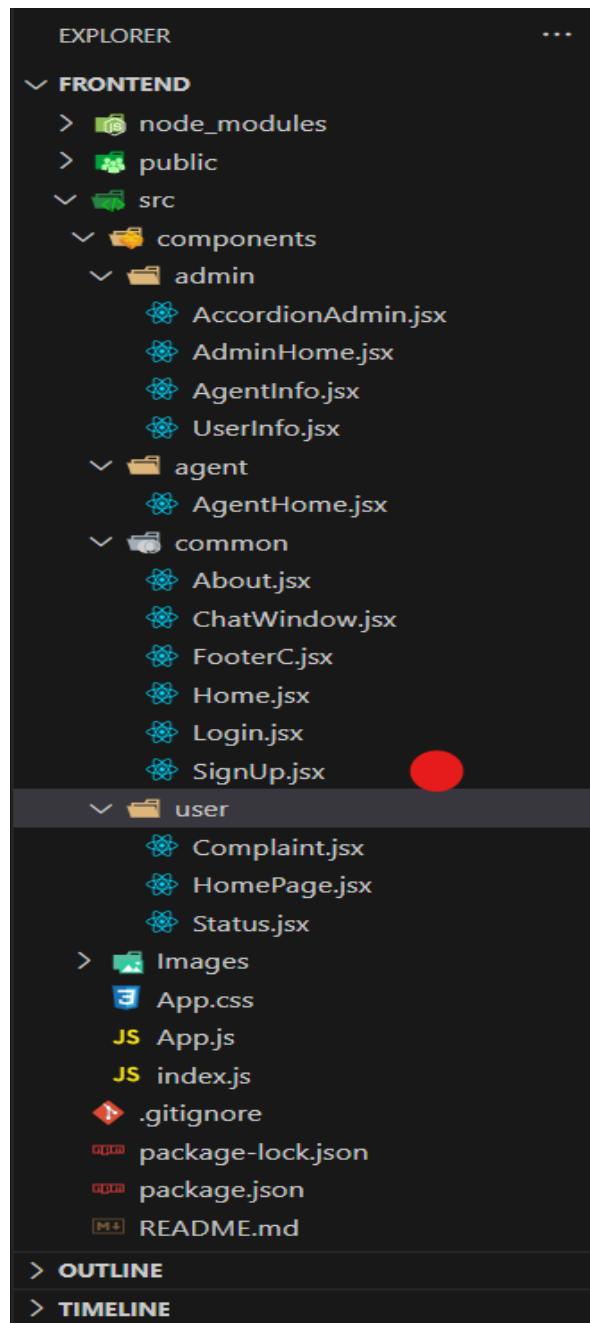
> backend@1.0.0 start
> nodemon index.js

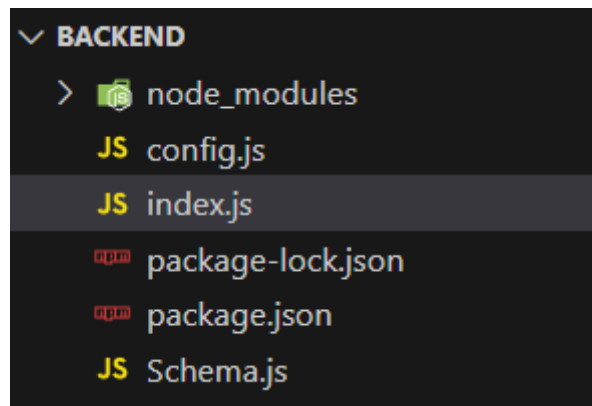
[nodemon] 2.0.22
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting 'node index.js'
server started at 8000
connected to mongodb
```

- The online complaint registration and management app will be accessible at <http://localhost:3000>

You have successfully installed and set up the online complaint registration and management app on your local machine. You can now proceed with further customization, development, and testing as needed

PROJECT STRUCTURE:





The first image is of frontend part which shows all the files and folders that have been used in UI development

The second image is of the Backend part which shows all the files and folders that have been used in the backend development

APPLICATION FLOW:

Online Complaint Registration and Management System

1. Customer/Ordinary User:

- **Role:** Create and manage complaints, interact with agents, and manage profile information.
- **Flow:**

1. Registration and Login:

- Create an account by providing the necessary information such as email and password.
- Log in using the registered credentials.

2. Complaint Submission:

- Fill out the complaint form with details of the issue, including description, contact information, and relevant attachments.
- Submit the complaint for processing.

3. Status Tracking:

- View the status of submitted complaints in the dashboard or status section.
- Receive real-time updates on the progress of complaints.

4. Interaction with Agents:

- Connect with assigned agents directly using the built-in messaging feature.
- Discuss complaints further and provide additional information or clarification.

5. Profile Management:

- Manage personal profile information, including details and addresses.

2. Agent:

- **Role:** Manage complaints assigned by the admin, communicate with customers, and update complaint statuses.
- **Flow:**

1. Registration and Login:

- Create an account using email and password.
- Log in using the registered credentials.

2. Complaint Management:

- Access the dashboard to view and manage complaints assigned by the admin.
- Communicate with customers regarding their complaints through the chat window.

3. Status Update:

- Change the status of complaints based on resolution or progress.
- Provide updates to customers regarding the status of their complaints.

4. Customer Interaction:

- Respond to inquiries, resolve issues, and address feedback from customers.

3. Admin:

- **Role:** Oversee the overall operation of the complaint registration platform, manage complaints, users, and agents, and enforce platform policies.
- **Flow:**

1. Management and Monitoring:

- Monitor and moderate all complaints submitted by users.
- Assign complaints to agents based on workload and expertise.

2. Complaint Assignment:

- Assign complaints to the desired agents for resolution.
- Ensure timely and efficient handling of complaints.

3. User and Agent Management:

- Manage user and agent accounts, including registration, login, and profile information.
- Enforce platform policies, terms of service, and privacy regulations.

4. Continuous Improvement:

- Implement measures to improve the platform's functionality, user experience, and security measures.
- Address any issues or concerns raised by users or agents for better service delivery.

Project Flow:

Project Demo:

[https://drive.google.com/file/d/1CW59EVgmYIJlQGhnLlgJ56CBED_xurd/view?usp=drive link](https://drive.google.com/file/d/1CW59EVgmYIJlQGhnLlgJ56CBED_xurd/view?usp=drive_link)

GitHub Code: <https://github.com/john-victor-000/ResolveNow-Your-Platform-for-Online-Complaints.git>




Milestone 1:

Project Setup and Configuration:

1. Create project folders and files:

Now, firstly create the folders for frontend and backend to write the respective code and install the essential libraries.

- Frontend folders.
- Backend folders

Name	Date modified	Type	Size
 backend	6/23/2025 5:17 PM	File folder	
 frontend	6/22/2025 10:35 PM	File folder	
 readme	6/22/2025 9:42 PM	Markdown Source ...	1 KB

2. Install required tools and software:

For the backend to function well, we use the libraries mentioned in the prerequisites. Those libraries include

- Node.js.
- MongoDB.
- Bcrypt
- Body-parser

Also, for the frontend we use the libraries such as

- React Js.
- Material UI
- Bootstrap
- Axios

After the installation of all the libraries, the package.json files for the front end look like the one mentioned below.

```
{
  "name": "task1",
  "version": "0.1.0",
  "proxy": "http://localhost:8000",
  "private": true,
  "dependencies": {
    "@emotion/react": "^11.11.1",
    "@emotion/styled": "^11.11.0",
    "@testing-library/jest-dom": "^5.16.5",
    "@testing-library/react": "^13.4.0",
    "@testing-library/user-event": "^13.5.0",
    "axios": "^1.4.0",
    "bootstrap": "^5.2.3",
    "mdb-react-ui-kit": "^6.1.0",
    "react": "^18.2.0",
    "react-bootstrap": "^2.7.4",
    "react-dom": "^18.2.0",
    "react-router-dom": "^6.11.2",
    "react-scripts": "5.0.1",
    "web-vitals": "^2.1.4"
  },
  "scripts": {
    "start": "react-scripts start",
    "build": "react-scripts build",
    "test": "react-scripts test",
    "eject": "react-scripts eject"
  },
  "eslintConfig": {
    "extends": [
      "react-app",
      "react-app/jest"
    ]
  },
  "browserslist": {
    "production": [
      ">0.2%",
      "not dead",
      "not op_mini all"
    ],
    "development": [
      "last 1 chrome version",
      "last 1 firefox version",
      "last 1 safari version"
    ]
  }
}
```

After the installation of all the libraries, the package.json files for the backend look like the one mentioned below.

```
1  {
2    "name": "backend",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "start": "nodemon index.js"
8    },
9    "keywords": [],
10   "author": "",
11   "license": "ISC",
12   "dependencies": {
13     "bcrypt": "^5.1.0",
14     "cors": "^2.8.5",
15     "express": "^4.18.2",
16     "express-session": "^1.17.3",
17     "mongoose": "^7.1.1",
18     "nodemon": "^2.0.22"
19   }
20 }
```

Milestone 2:

Backend Development:

- **Set Up Project Structure:**

- Create a new directory for your project and set up a package.json file using npm init command.
- Install necessary dependencies such as Express.js, Mongoose, and other required packages.

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- Create a new directory for your project and set up a package.json file using npm init command.
- Install necessary dependencies such as Express.js, Mongoose, and other required packages.

- **Create Express.js Server:**

- Set up an Express.js server to handle HTTP requests and serve API endpoints.
- Configure middleware such as body-parser for parsing request bodies and cors for handling cross-origin requests.

- **Define API Routes:**

- Create separate route files for different API functionalities such as authentication, creating, assigning complaints, and chat window.
- Implement route handlers using Express.js to handle requests and interact with the database.

- **Implement Data Models:**

- Create corresponding Mongoose models to interact with the MongoDB database.
- Implement CRUD operations (Create, Read, Update, Delete) for each model to perform database operations.

- **User Authentication:**

- Implement user authentication using strategies like JSON Web Tokens (JWT).
- Create routes and middleware for user registration, login, and logout.
- Set up authentication middleware to protect routes that require user authentication.

- **Admin Functionality:**

- Implement routes and controllers specific to admin functionalities such as fetching all the data regarding users, complaints, agents.

- **Error Handling:**

- Implement error handling middleware to catch and handle any errors that occur during the API requests.
- Return appropriate error responses with relevant error messages and HTTP status codes.

Milestone 3:

Database Development

1. User Schema:

- The user schema defines the structure of user data stored in the database. It includes fields such as name, email, password, phone, and userType.
- Each user must provide a name, email, password, phone number, and userType (e.g., customer, agent, admin).
- User data is stored in the "user_Schema" collection in the MongoDB database.

2. Complaint Schema:

- The complaint schema specifies the format of complaint data registered by users.
- It contains fields like userId, name, address, city, state, pincode, comment, and status.
- Complaints are associated with users through the userId field, and each complaint must have a name, address, city, state, pincode, comment, and status.
- Complaint data is stored in the "complaint_schema" collection in the MongoDB database.

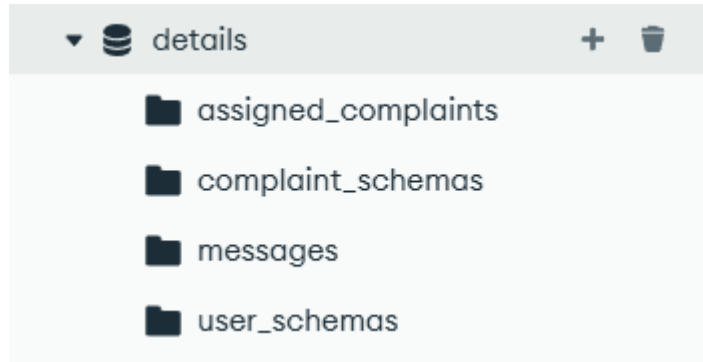
3. Assigned Complaint Schema:

- The assigned complaint schema defines how complaints are assigned to agents for resolution.
- It includes fields such as agentId, complaintId, status, and agentName.
- Each assigned complaint is linked to a specific agent (identified by agentId) and complaint (identified by complaintId).
- The status field indicates the current status of the assigned complaint.
- Assigned complaint data is stored in the "assigned_complaint" collection in the MongoDB database.

4. Chat Window Schema:

- The chat window schema governs the structure of messages exchanged between users and agents regarding specific complaints.

- It comprises fields like name, message, and complaintId.
- Messages are associated with a complaint through the complaintId field, allowing for easy tracking and retrieval of chat history for each complaint.
- Message data is stored in the "message" collection in the MongoDB database.



Milestone 4:

Frontend Development:

1. Setup React Application:

Bringing Customer Care Registry to life involves a three-step development process. First, a solid foundation is built using React.js. This includes creating the initial application structure, installing necessary libraries, and organizing the project files for efficient development. Next, the user interface (UI) comes to life. To start the development process for the front end, follow the below steps.

- Install required libraries.
- Create the structure directories.

2.Design UI components:

Reusable components will be created for all the interactive elements you'll see on the screen, from stock listings and charts to buttons and user profiles. Next, we'll implement a layout and styling scheme to define the overall look and feel of the application. This ensures a visually appealing and intuitive interface. Finally, a navigation system will be integrated, allowing you to effortlessly explore different sections of the Customer Care Registry, like making specific complaints or managing your Product complaints.

3.Implement frontend logic:

In the final leg of the front-end development, we'll bridge the gap between the visual interface and the underlying data. It involves the following stages.

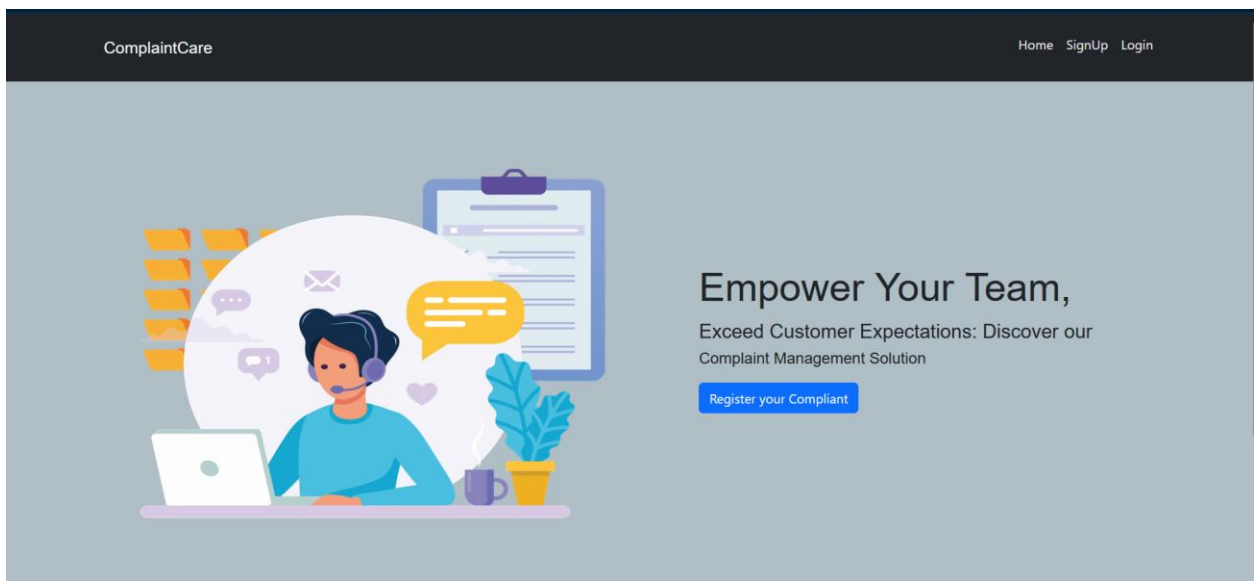
- Integration with API endpoints.
- Implement data binding.

Milestone 5:

Project Implementation:

On completing the development part, we then ran the application one last time to verify all the functionalities and look for any bugs in it. The user interface of the application looks a bit like the one provided below.

- Landing Page



- Login Page

ComplaintCare

HomeSignUpLogin

Login For Registering the Complaint

Please enter your Credentials!

Email

Password

Login

Don't have an account? [SignUp](#)

- Registration Page

ComplaintCare

HomeSignUpLogin

SignUp For Registering the Complaint

Please enter your Details

Full Name

Email

Password

Mobile No.

Select User ▼

Select User Type

Register

Had an account? [Login](#)

- Common Dashboard for Complaint

Hi, shadeel

Complaint Register

Status

Logout

Name

Address

City

State

Pincode

Status

type pending

Description

Register

ComplaintCare

© 2024

- Admin Dashboard

Hi Admin John Victor

Dashboard

User

Agent

Users Complaints

Name: Dinesh

Address: chirala

City: Bapatla

State: Ap

Pincode: 523155

Comment: My account is not working

Status: completed

Name: leela

Address: chirala

City: bapatla

State: ap

Pincode: 523155

Comment: my acc is not working

Status: completed

Name: Dinesh

Address: chirala

City: bapatla

State: ap

Pincode: 523155

Comment: My accounting is not working properly. can you please go through it.

Status: completed

Agents

Name: j

Email: j@123.com

- Agent Dashboard

Hi Agent j View Complaints Log out

Name: Dinesh

Address: chirala

City: Bapatla

State: Ap

Pincode: 523155

Comment: My account is not working

Status: completed

Status Change

Message

Message Box

Please check again
Thank you for your time!
08:04 PM, 6/23/2025

Dinesh: Thank You!
08:06 PM, 6/23/2025

Message

Send

Name: Dinesh

Address: chirala

City: Bapatla

State: Ap

Pincode: 523155

Comment: My account is not working

Status: pending

Status Change

Message

Message Box

j: your issue is solved.
Please check again
Thank you for your time!
08:04 PM, 6/23/2025

Dinesh: Thank You!
08:06 PM, 6/23/2025

Message

Send

Name: leela

Address: chirala

City: bapatla

State: ap

Pincode: 523155

Comment: my acc is not working

Status: completed

Status Change

Message

Message Box

j: your problem is completed
01:11 PM, 6/24/2025

Message

Send

Name: Dinesh

Address: chirala

City: bapatla

State: ap

Pincode: 523155

Comment: My accounting is not working properly. can you please go through it.

Status: completed

Status Change

Message

Message Box

once. Thank you for your time!
02:57 PM, 6/27/2025

Dinesh: Thank You so much!
02:58 PM, 6/27/2025

Message

Send

- Client Dashboard

Hi, d Complaint Register Status

Name: Dinesh

Address: chirala

City: Bapatla

State: Ap

Pincode: 523155

Comment: My account is not working

Status: completed

Message

Name: Dinesh

Address: chirala

City: bapatla

State: ap

Pincode: 523155

Comment: My accounting is not working properly. can you please go through it.

Status: completed

Message