

# ResolveNow: Your Platform For Online Complaints

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## 1. Introduction

Project Title: ResolveNow: Your Platform For Online Complaints

Team Members:

1. Kode Devi Sri Vallika(lead)

2.Tupakula Yoshika Yadav

3.Shakina Dasari

4.Lukka Sanjay

## 2. Project Overview

Purpose: To provide a centralized, transparent digital platform for users to register service complaints and track their resolution in real-time, eliminating the need for manual paperwork and physical office visits.

Features: Role-based dashboards (Customer, Admin, Agent), dynamic complaint lifecycle tracking (Pending -> Assigned -> Resolved), responsive "Glassmorphism" UI, and secure user authentication.

## 3. Architecture

Frontend: Built using React.js with React Router for navigation. The UI utilizes Bootstrap and custom CSS for a modern, tech-themed aesthetic.

Backend: Powered by Node.js and Express.js, handling RESTful API requests, business logic for task routing, and data processing.

Database: MongoDB is used to store unstructured document data, including user profiles, role assignments, and detailed complaint logs.

## 4. Setup Instructions

Prerequisites: Node.js installed on the system, MongoDB Server (Compass) running locally, and a code editor like VS Code.

Installation:

Clone the repository or extract the project folder.

Navigate to the backend folder and run `npm install` to install Express and Mongoose dependencies.

Navigate to the frontend folder and run `npm install` to install React and Axios dependencies.

Configure environment variables (if any) such as the MongoDB connection URI in a `.env` file.

## 5. Folder Structure

Client: Organized into /src/components containing separate folders for common (Login/Register), user, admin, and agent dashboards. Static assets are kept in the /public folder.

Server: Structured using the MVC pattern with folders for /models (Mongoose schemas), /routes (Express API endpoints), and the main entry point index.js.

## 6. Running the Application

Backend: Open a terminal in the server directory and run npm start (or npx nodemon index.js) to initialize the server on port 5000.

Frontend: Open a separate terminal in the client directory and run npm start to launch the React app on localhost:3000.

## 7. API Documentation

POST /api/auth/register: Registers a new user with email, password, and role.

POST /api/auth/login: Authenticates user credentials and returns user details.

POST /api/complaints: Submits a new complaint document to the database.

GET /api/complaints: Retrieves a list of complaints (Admin sees all, Agent sees assigned, User sees their own).

PUT /api/complaints/update: Modifies the status of a complaint (e.g., to "Assigned" or "Resolved").

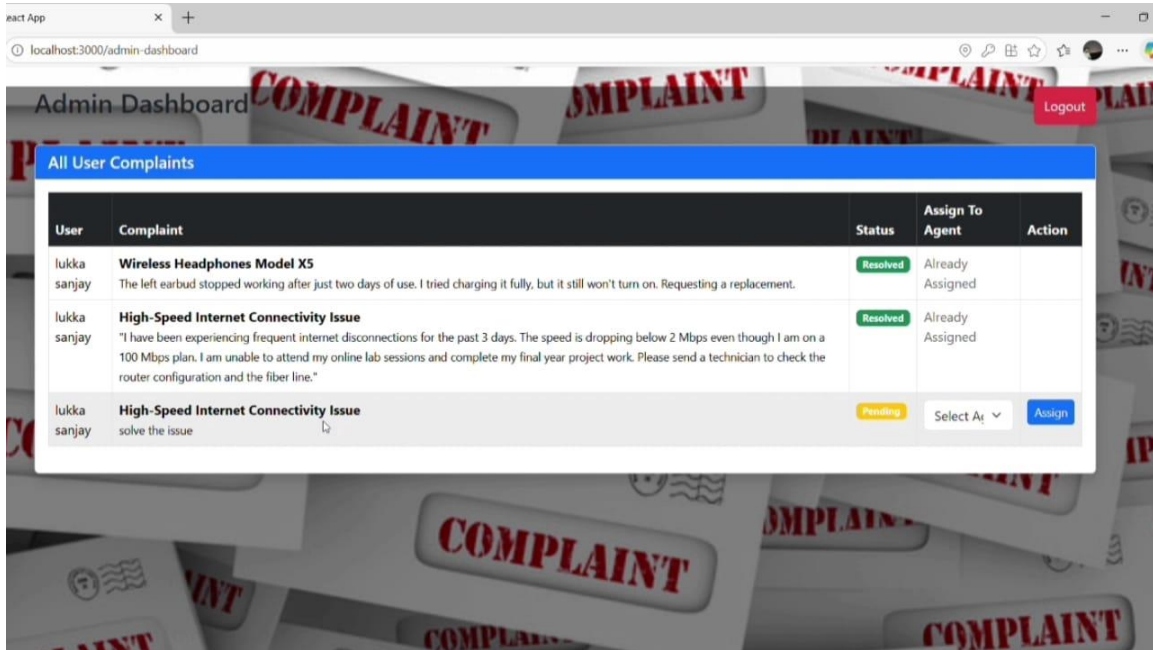
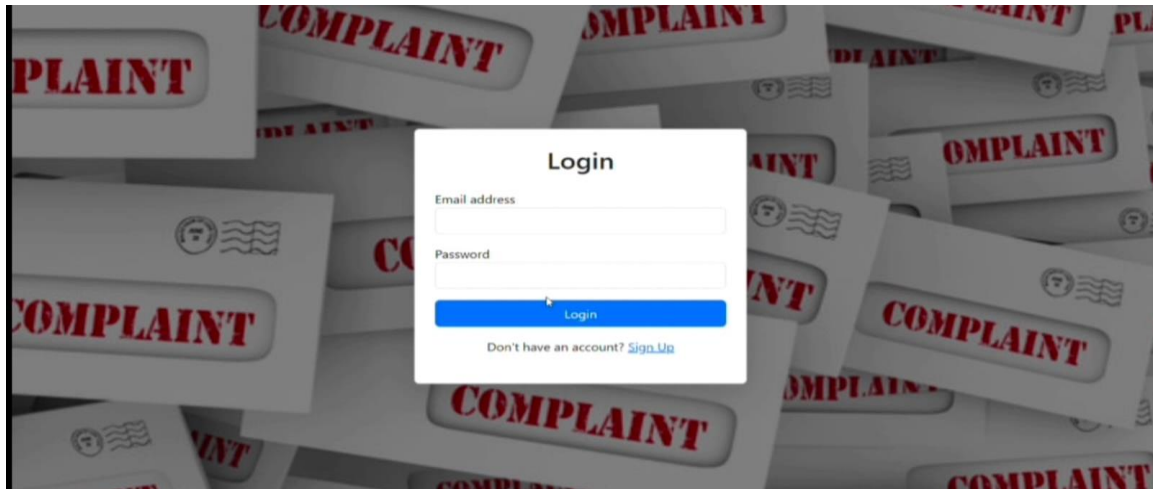
## 8. Authentication

The system uses secure role-based authentication. Upon a successful login via the backend API, the user's ID, Name, and Role (Customer, Admin, or Agent) are stored locally.

React Router uses this stored role to authorize access, ensuring an Agent cannot access the Admin dashboard, and vice versa.

## 9. User Interface

The UI features a dark, professional tech-operations background with semi-transparent "Glass" cards for forms.



## 10. Testing

Manual User Acceptance Testing (UAT) was conducted to verify the end-to-end data flow.

This included registering test accounts for all three roles and verifying that a complaint successfully transitions from User Creation -> Admin Assignment -> Agent Resolution.

## 11. Screenshots or Demo

Demo Video Link:

<https://drive.google.com/drive/folders/1IsfoLoByEv0VklPzHOBKAreumnf9p850>

User Dashboard:

exact App

localhost:3000/user-dashboard

Welcome, lukka sanjay [Logout](#)

### Register a Complaint

### Your Complaint History

| Title                                  | Date      | Status  |
|--|-----------|---------|
| High-Speed Internet Connectivity Issue | 16/2/2026 | Pending |

## Agent Dashboard:

exact App

localhost:3000/agent-dashboard

Agent Dashboard [Logout](#)

### Your Assigned Tasks

| Complaint Title                        | Details   | Current Status | Action           |
|--|---|----------------|------------------|
| Wireless Headphones Model X5           | <b>Issue:</b> The left earbud stopped working after just two days of use. I tried charging it fully, but it still won't turn on. Requesting a replacement.<br><b>Location:</b> Machilipatnam, Andhra Pradesh  | Resolved       |                  |
| High-Speed Internet Connectivity Issue | <b>Issue:</b> "I have been experiencing frequent internet disconnections for the past 3 days. The speed is dropping below 2 Mbps even though I am on a 100 Mbps plan. I am unable to attend my online lab sessions and complete my final year project work. Please send a technician to check the router configuration and the fiber line."<br><b>Location:</b> Machilipatnam, Andhra Pradesh | Resolved       |                  |
| High-Speed Internet Connectivity Issue | <b>Issue:</b> solve the issue<br><b>Location:</b> Machilipatnam, Andhra Pradesh   | Assigned       | Mark as Resolved |

## 12. Known Issues

The application currently relies on active internet access to render external background images.

Users must manually refresh the dashboard to see the latest status updates assigned by the Admin.

## 13. Future Enhancements

Integration of automated Email or SMS notifications when a complaint status changes.

Implementation of an AI chatbot to help users categorize their complaints automatically before submission.

Exporting monthly complaint resolution reports as PDF/Excel files for Admin analytics.