#### Project Report: ResolveNow - Online Complaint Registration and Management System

- 1. Title: ResolveNow Online Complaint Registration and Management System
- **2. Objective:** To develop a centralized platform that allows users to submit, track, and resolve complaints efficiently, ensuring transparency, accountability, and enhanced customer satisfaction.
- 3. Introduction: In many organizations, managing complaints manually is inefficient and time-consuming. ResolveNow provides an automated, secure, and user-friendly solution for complaint handling. It empowers users to register grievances and track them in real time while allowing administrators and agents to handle complaints systematically.
- 4. Scope: ResolveNow serves users, agents, and administrators. It enables:
  - · Secure registration and login for users
  - Complaint filing with supporting documents
  - · Tracking of complaint status
  - Real-time messaging between users and agents
  - · Admin panel for monitoring and assignment

#### 5. Features:

- User registration and authentication
- Secure complaint submission
- Email/SMS notifications
- Real-time chat with assigned agents
- · Admin dashboard
- Complaint status tracking

## 6. Tools & Technologies Used:

- Frontend: React.js, Bootstrap, Material UI
- Backend: Node.js, Express.js
- Database: MongoDB Atlas
- Other Libraries: Axios, React-Router, Socket.io (optional for real-time chat)
- Hosting: Localhost for development, GitHub for version control
- 7. System Architecture: The application follows a client-server architecture:
  - The client (frontend) handles UI and sends HTTP requests to the server.
  - The server (backend) processes the logic, interacts with MongoDB Atlas, and sends responses.
  - MongoDB Atlas stores user, complaint, and message data.

#### 8. Modules Description:

- User Module: Handles sign-up, login, complaint submission, and status tracking.
- Agent Module: Manages assigned complaints and interacts with users.
- Admin Module: Assigns complaints, monitors status, and manages users/agents.

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- Complaint Module: Stores and retrieves complaint data.
- · Chat Module: Enables communication between users and agents.

## 9. ER Diagram Overview:

- · Entities: User, Complaint, Agent, Admin, Message
- Relationships: One-to-many (User-Complaint), One-to-one (Complaint-Agent), One-to-many (Complaint-Messages)
- 10. Scenario Illustration: John faces a product issue, registers on ResolveNow, submits a complaint, chats with the agent, and gets resolution. Admin monitors and assigns the complaint to the appropriate agent.

## 11. Security Measures:

- Password hashing
- JWT-based authentication (optional for advanced security)
- HTTPS for data encryption (in deployment)
- Role-based access control
- **12. Conclusion:** ResolveNow is a robust platform that automates and simplifies complaint handling, promoting transparency, accountability, and faster resolutions. It can be extended with advanced features like analytics, escalation workflows, and multilingual support.

## 13. Future Enhancements:

- · Add voice/video chat support
- Mobile app integration
- · Complaint categorization and priority tags
- Advanced admin analytics dashboard

#### 14. Screenshots:

- Home page with dark/light mode toggle
- Complaint submission form
- · Real-time chat window
- Admin dashboard
- Complaint status tracker

## 15. References:

- ReactJS Documentation
- Node.js Official Docs
- MongoDB Atlas
- Bootstrap & Material UI

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# 16. Acknowledgment:

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## 17. Contact Information:

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