# ${\bf Resolve Now: Your Plat form for Online Complaints}$

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## **Abstract**

ResolveNow is a full-stack web application developed using the MERN stack (MongoDB, Express.js, React.js, Node.js) that offers a centralized platform for registering, tracking, and resolving complaints. The system aims to streamline the complaint handling process for both users and administrators while ensuring data security and transparency.

Users can register on the platform, submit detailed complaints, and track their status in real time. The system automatically assigns complaints to appropriate agents or departments based on intelligent routing logic. Agents can communicate directly with users through a built-in messaging system to resolve is suesefficiently. Users receive emailor SMS notifications for all key updates related to their complaints.

Adminsoverseetheentiresystem,managecomplaintassignments,andensurecompliance with platform policies. The frontend is built with React.js, styled using Bootstrap and Material UI, and communicates with the backendusing Axios and REST ful APIs. The backend, developed using Express.js, interacts with Mongo B to store user and complaint data securely.

With features like real-time tracking, secure authentication, user-agent interaction, and admin control, ResolveNow provides an efficient, user-friendly, and scalable solution for digital complaint management.

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## 1. INTRODUCTION

## **ProjectOverview**

Inanincreasinglydigitalworld, the effectiveness of publicservice delivery depends significantly on the ability of institutions to respond promptly and efficiently to citizens' concerns. One of the major pain points in governance and service sectors is complaint resolution—often plagued by delays, lack of transparency, and poor communication. Addressing these inefficiencies, Resolve Now emerges as a modern, full-stack web application built using the MERN stack (Mongo DB, Express.js, React.js, Node.js) that facilitates online complaint registration and management.

The platform is designed to allow users—citizens, customers, or members of an organization—to file complaintsdigitally, track their progress in real time, interact with agents handling their cases, and receive timely resolutions. Simultaneously, it empowers agents and administrators with tools to efficiently manage and resolve these complaints, backed by intelligent routing, dashboards, and user communication modules.

ResolveNownotonlydigitizesthecomplaintmanagementprocessbutalsoenhancesuser experience,reducesadministrativeworkload,andincreasesorganizationalaccountability. Its design follows a client-server architecture, enabling a scalable and responsive system that adapts to various domains, such as government bodies, corporate environments, and public service sectors.

#### **ProjectPurpose**

Thecorepurposeof Resolve Nowisto bridge the communication and action gap between users and service providers when dealing with complaints or grievances. Traditional paper-based or disorganized complaint systems are often in efficient and frustrating, leaving users without updates or outcomes. In contrast, Resolve Now brings structure, visibility, and speed to the complaint lifecycle through a centralized and intelligent digital platform.

Thespecificgoalsofthissystem include:

- **UserEmpowerment:**Provide individuals with a transparent and trace able platform to voice their issues and monitor resolution progress without repeated follow-upsor confusion.
- EfficientComplaintHandling:Enableorganizationsandinstitutionstocategorize, assign, and resolve complaints faster using a structured and data-driven system.
- Accountability&Communication: Ensureeveryregistered complaint is tracked and updated in real time, with built-in messaging features to facilitate direct communication between users and agents.
- AdministrativeControl:Equipadministratorswithcompleteoversight of the complaintmanagementprocess, including performance tracking of agents, monitoring pending cases, and managing escalations.
- **Security&Compliance:**Implementstrongauthentication,role-basedaccesscontrol, and secure data handling practices to safeguard sensitive complaint and user information.

Inapractical scenario, **Resolve Now** is envisioned to support every day users like *John*, who, upon encountering an issue with a product or service, can log in to the platform, register a complaint, and receive structured updates and interaction until the issue is resolved. This practical model improves trust and satisfaction while reducing operational burdens for service providers.

In conclusion, **ResolveNow** is more than a digital complaint box—it is a **robust service infrastructure**forresolvingreal-worldproblemsinawaythatis**transparent**,**scalable**, **and user-centric**. Its implementation not only enhances the user experience but also promotes digital transformation in complaint management for any institution or organizationaimingtoprovidebetterserviceand response.

## 2. IDEATIONPHASE

#### **ProblemStatement**

In today's fast-paced digital environment, customers and citizens expect quick, transparent, and traceable resolution of their complaints. However, most traditional complaint systems are either manual or outdated, leading to a host of problems such as:

- Lackoftransparencyincomplainthandling
- Nopropercommunication between complainantandhandlingauthority
- Longdelaysincomplaintresolution
- Pooruserexperienceduetomultiplefollow-upsandnoupdates

Whether it's a defective product, a public service grievance, or a workplace concern, users often face frustration when their complaints are not acknowledged, tracked, or resolved promptly. Simultaneously, organizations struggle with unorganized complaint data, manual routing, and a lack of accountability within their resolution teams.

Tosolvethesepainpoints, the idea for Resolve Nowwas conceived—acentralized, real-time, and user-friendly platform to digitize and optimize the entire complaint registration and resolution process.

## **EmpathyMap Canvas**

Understanding user frustration and agent responsibilities was central to the design of ResolveNow. The **EmpathyMap** belowhelpedidentify the emotional and functional needs of users (complainants):

Says	Thinks	Does	Feels
"Nobodyrespondsto	"Willtheyevenreadmy	Sendsfollow-upemailsor	Frustrated,
my complaint."	issue?"	calls	ignored
"Iwantupdatesonmy	"Thisprocessistoo	Givesupmidwayoruses	Helpless,
issue."	confusing."	socialmediato complain	angry

Says	Thinks	Does	Feels
"HowdoItalktothe	"Ineedsomeone	Triestoreachsupport	Anxious,
right person?"	responsibletorespond."	multiple times	impatient

From the **agent's perspective**, the challenges included poor tracking, overwhelming complaint volumes, and lack of clarity in issue priority and ownership.

## **Brainstorming**

Duringtheideationsessions, several features and solutions were discussed to address the problems identified above. Key ideas that emerged include:

## FeatureIdeas:

- Userdashboardfor complaintstatus tracking
- Agentdashboard forcomplaintassignmentand resolution
- Real-timemessagingbetweenusersandagents
- Role-basedloginsystem(User, Agent, Admin)
- Auto-routingofcomplaintsbasedoncategory/region
- Email/SMSnotificationsonstatusupdates
- Feedbacksystemaftercomplaintresolution
- Adminanalyticsforoverallcomplainttrends and agent performance

## < DesignGoals:

- Simplicity:Easy-to-useUIfornon-technicalusers
- Transparency:Livestatusupdatesandnotifications
- Accountability: Assignresponsibility and trackresolution
- Security:Safestorageandaccessofuserandcomplaint data
- Scalability:Handlelargevolumesofcomplaintsfromdiverseusers

Thesebrainstormingsessionslaidthefoundationforaplatformthatwould beboth technicallyrobustand empathetictorealuserneeds, while also being flexible enough to support future enhancements like chatbots, voice assistants, or mobile apps.

## 3. REQUIREMENTANALYSIS

## CustomerJourneyMap

Todesignauser-centricsolution, understanding the **customerjourney** was critical. The journey maps the user's experience from the point of need to complaint resolution, including touchpoints and emotions.

Stage	User Action	System Interaction	PainPoints	Improvement Through ResolveNow
Awareness	Identifies an issue	Visits complaint portal	Confusionabout where to report	One-click access to platform
Registration	Createsan account	Forminput & email verification	Lengthy process, security concerns	Quick signup withvalidation
Complaint Submission	Submits issue details	Form with category& description	Missinginfo, unclearsteps	Guided, structuredform
Tracking	Checks status updates	Dashboard withtimeline view	Novisibility,no alerts	Real-time updates& notifications
Interaction	Talksto agent	In-app messaging	No proper communication channel	Live messaging, timely responses
<b>D</b> 1.3	Receives	Email/SMS	Delayedor	Prompt, clear
Resolution	outcome	+dashboard update	unclear resolution	feedbackloop
Feedback	Rates experience	Feedback form	Notcollectedor ignored	Encouraged post-resolution rating

SolutionRequirements(Functional&Non-functional) Functional Requirements: The following are the **functional** and **non-functional requirements** based on the user needs and system goals.

## FunctionalRequirements:

- Userregistrationandlogin(withemailverification)
- Complaintsubmissionform(withdetailslikeissuetype,description,location, attachments)
- Complaintstatustracking(submitted,inprogress,resolved, rejected)
- Admindashboard(assign,monitor,managecomplaints)
- Agentdashboard (viewassignedcomplaints, updatestatus)
- Internalchatbetweenuserandassignedagent
- Feedbackformforusersafterresolution
- Notificationsystem(emailorSMS)

## Non-FunctionalRequirements:

- Highperformance(low-latencyUIandfastAPIresponses)
- Secureauthentication(JWTtoken-basedlogin)
- Role-basedaccesscontrol(user,agent, admin)
- Dataencryptionforsensitivefields
- ResponsiveUIformobileand desktop
- ScalabledatabaseandbackendAPIarchitecture

## **DataFlowDiagram**

Hereisasimplified **DataFlow Diagram** representing how data flows between users, agents, and the backend system.

```
[User]
|--Register/Login-->[FrontendInterface]
|--SubmitComplaint -->|
|<--ViewComplaintStatus--|
|
V
[BackendServer- Express.js]
```

## Validate/LoginStoreComplaintFetchComplaint



[MongoDBDatabase-User&ComplaintData]

## [Agent]

- |--ViewAssignedComplaints-->[Backend]
- |--UpdateStatus/Chat withUser-->[Backend]

|<--Notifications<--|

## [Admin]

- |--ManageComplaints/Users --> [Backend]
- |--AssignComplaints --> [Backend]

#### TabularBreakdownofFlows:

Entity	Action	Target	DataExchanged
User	Registers/Logsin	Frontend→Backend	Email, Password
<b>T</b> T			Complaintdetails,
User	Submits Complaint	Frontend→Backend	attachments
User	ViewsComplaintStatus	Backend→Frontend	Complaintupdates
User&Agent	Messaging	Backend	Textmessages
Agent	UpdatesComplaint	Backend→Database	Status, comments
Admin	AssignsComplaint	Backend→Database	AgentID,ComplaintID
Darles at	C4/D-4	ManaaDD	Users, Complaints,
Backend	Stores/Retrieves	MongoDB	Messages

## **KeyProcessesInvolved:**

- $1. \quad \textbf{User Authentication} \textbf{Validates} \\ \textbf{and stores user credentials}$
- 2. **ComplaintHandling** –Stores, fetches, updates complaint records
- 3. **RoleManagement**–ControlsaccessforUsers,Agents,Admins
- 4. **Real-TimeInteraction** Agent-usercommunication via chat
- 5. **StatusTracking**–Monitorscomplaintlifecycle

## **TechnologyStack**

ThetechnologystackusedinthedevelopmentofResolveNowisbasedontheMERN stack—apowerfulsetofJavaScript-basedtechnologiesthatenablesfull-stackdevelopment using a single language throughout the application. The choice of stack ensures fast development,maintainability,scalability,andperformance.Frontend(Client-side)

Layer	Technology	Description/Rolein Project
		ApopularJavaScriptlibraryusedforbuildingthe userinterface.Reactenablesthecreationofreusable
Frontend	React.js	UIcomponentsandprovidesfastrenderingusinga
		virtual DOM.
		Usedtocreateresponsiveandmodernuser
III Ctralia a	Da atatuan Matarial III	interfaces.Bootstrapensuresgrid-basedlayoutsand
UI Styling	Bootstrap,Material UI	mobilecompatibility, whileMaterial UI adds sleek,
		professional design elements.
		Apromise-based HTTPclient used to send and
A DI CIL and	Axios	receivedatafromthebackendAPIs.Ithelpsthe frontend
API Client		communicate seamlessly with the
		Express.jsserver.
		Node.jsenablesserver-sideJavaScriptexecution, while
Backend	Node.js+ Express.js	Express.js simplifies routing, middleware
		handling,andAPIcreation.Together,theyhandle core
		server logic.
		ANoSQLdatabasechosenforitsflexibilityand
Datahasa	MongoDB+ Mongoose	scalability. MongoDB stores data as JSON-like
Database		documents. Mongoose is used for schemade sign,
		validation, and queries.
		Ensures secure user login and access control by
Authentication	JWT(JSONWebToken)	assigning encrypted tokens after successful login.
		JWTisusedforsessionpersistenceandrole-based
		authorization.
Real-Time	Socket.io/WebRTC	These technologies enable live interactions like
Features	SOCRELIO/ WEUKIC	messagingandupdates.Socket.ioisidealforuser-

Layer	Technology	Description/Rolein Project
		agentchatfunctionality.WebRTCcanbeusedfor future
		video support.
Deployment  (Optional:Render,Vercel,  MongoDB Atlas)	These cloud platforms are used to host the front end,	
	backend, and cloud database. They ensure uptime,	
	scalability, and remote access to the application.	

## 4. PROJECTDESIGN

## **ProblemSolutionFit**

#### **Problem**

In many organizations and service sectors, the complaint management process is still manual or poorly digitized. Users who face issues—whether related to a product, service, or public utility—often experience:

- Delayedresponsetimes
- Lackoftransparencyregardingcomplaintstatus
- Noproper communication with the assigned personnel
- Frustrationduetorepetitivefollow-ups
- Noaccountabilityonthe partofthehandling agentor department

This results in low user satisfaction, inefficient resolution, and a breakdown of trust between users and service providers.

#### **Solution:**

Toaddressthisgap,ResolveNowprovidesacentralizedonlineplatformforcomplaintregistration, tracking, and resolution, developed using the MERN stack. The system features:

- User-friendlycomplaintsubmission
- Real-timestatustracking
- In-appmessagingbetweenuserandagent
- Admincontrolpanel for assigning and monitoring complaints
- Automatednotificationsviaemail/SMS
- Securelogin with role-based access

By digitizing and automating the entire complaint lifecycle, Resolve Nowensures fast, organized, and transparent issue handling.

#### **Purpose**

The primary purpose of Resolve Now is to:

- **Empowerusers**toraiseissueswithoutbureaucraticbarriers
- Streamlineoperations for service providers through automation
- Improvetrustandsatisfactionbyenablingcommunicationandtransparency
- Monitorperformance of complainth and lers using analytics
- Ensureaccountabilitythroughstatuslogs,timelines,andfeedback

## **ProposedSolution**

Theproposed solution is a full-stack we bapplication with a user-friendly interface that allows users to lodge complaints, track status, and communicate with a gents. It is supported by a robust backend and a responsive admin module. The solution includes:

## Key Modules:

#### 1. User Module:

- o Userregistrationandlogin
- Submitcomplaintswithrelevantdetails and attachments
- Viewcomplainthistoryandlivestatus
- Chatwiththeassignedagent
- Givefeedback afterresolution

## 2. Agent Module:

- o Loginandviewassignedcomplaints
- Respondtousersviachat
- Updatestatus(in-progress,resolved,rejected)
- Viewcomplaintdetailsandprioritylevels

#### 3. Admin Module:

- Monitoroverallsystemactivity
- Assigncomplaintstoagents
- Viewsystemstatistics(complaintspercategory,resolutionrate,etc.)
- Manageusersandagents

## 4. Notification System:

 EmailorSMSupdatestousersoncomplaintsubmission, statuschange, or resolution

#### **SolutionArchitecture**

The architecture of **ResolveNow** follows a **client-server model** and is divided into three main layers:

## 1. PresentationLayer(Frontend–React.js)

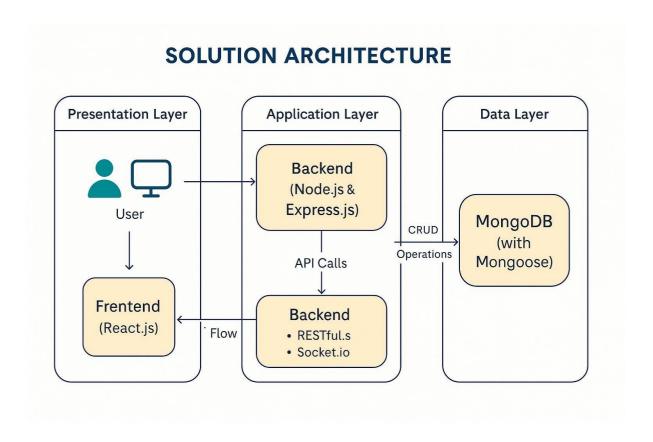
- Usersinteractviaa clean,responsiveUIbuiltwithReact.js.
- UIcomponents are dynamically rendered.
- **Axios**isusedtomakeAPIcallstothe backend.
- Formsincludevalidationanderrorhandlingtoensurecleandatasubmission.

## 2. ApplicationLayer(Backend –Node.js& Express.js)

- Allbusinesslogic,routing,andmiddlewarearehandledhere.
- RESTful APIsmanageCRUDoperationsforcomplaints, users, agents, and admin actions.
- **JWTtokens** are used for secure authentication and role-based access control.
- **Socket.io**isoptionallyintegratedforreal-timemessaging.

## 3. DataLayer(MongoDBwith Mongoose)

- MongoDBstorescomplaintrecords, userprofiles, messages, and feedback.
- MongooseODMsimplifiesschemadefinitionsanddataoperations.
- MongoDBAtlas(optional)canbeusedforcloud-based scalability.



## 5. PROJECTPLANNING&SCHEDULING

## **ProjectPlanningDocument**

ToensurethesuccessfulexecutionoftheResolveNowplatform,astructureddevelopmentplan was followed using the Agile methodology. The entire project was broken down into key **phases** and **sprints**, with regular reviews and testing incorporated at each stage.

Phase	ActivitiesInvolved	Duration	n Status
Phase1:Requirement Gathering	Identifyproblem,analyzecurrentsystems,define key features	2 Days	Completed
Phase2: Design	UI/UXdesignmockups, solutionarchitecture, database schema	3 Days	Completed
Phase3:Frontend Development	Buildlogin/signup,complaintform,dashboard, status tracker	5 Days	Completed
Phase4:Backend Development	DevelopRESTAPIs,role-basedlogin,database connections, authentication (JWT)	5 Days	Completed
Phase5:Agent/Admin Modules	Implementadmindashboard,complaintassignment, agent interface	3 Days	Completed
Phase6:Real-Time Features	Enablemessagingbetweenuserandagentusing socket.io	2 Days	Completed
Phase7:Notifications&F eedback	Integrateemail/SMSnotificationsandfeedback system	2 Days	Completed
Phase8:Testing& Debugging	Unittesting,integrationtesting,UItesting	3 Days	Completed
Phase9: Deployment	Hostfrontend/backendonplatformslikeVercelor Render,connectwithMongoDBAtlas	2 Days	Completed
Phase 10: Documentation	Prepareprojectreport, diagrams, and user manual	2 Days	Completed

## 6. FUNCTIONALANDPERFORMANCETESTING

## **PerformanceTesting**

Functional testing ensuresthat all modules of **ResolveNow** behaveas expected according to the system's requirements. Each major feature was tested individually and incombination to ensure smooth user experience, data flow, and correct outputs.

Test Case	Expected Result	Status
User registration with valid inputAcco	ount successfully created and stored in DB	Passed
User login with correct credentialsJW	T token issued; redirected to dashboard	Passed
Complaint submission	Complaint stored; status set to "Submitted"	Passed
Complaint tracking on user dashboard	d Real-time status updates visible to user	Passed
Admin assigns complaint to agentAge	ent receives the complaint in their dashboard	Passed
Agent updates complaint status	User dashboard reflects updated status	Passed
Messaging between user and agentMe	essages sent and received in real-time	Passed
Feedback form submission	Feedbacksavedandlinkedtocorrespondingcomplaint	Passed
InvalidloginorformsubmissionApprop	priateerrormessagesdisplayed	Passed

## PerformanceTesting

Performancetestingwasdonetoassessthereliability,responsiveness,andstabilityofthe application under normal and peak loads.

Metric	Observation
Page Load Time	Average<2.5seconds(Reactoptimizedwithlazyloadingand caching)
API ResponseTime	CRUDAPIsrespondedin<400msonaverageundernormal load
Concurrent Users	Handled50+simultaneoususerswithoutcrashing(forbasicuse cases)
Database Performance	MongoDBhandledread/writeoperationsefficientlyfor1000+dummy entries

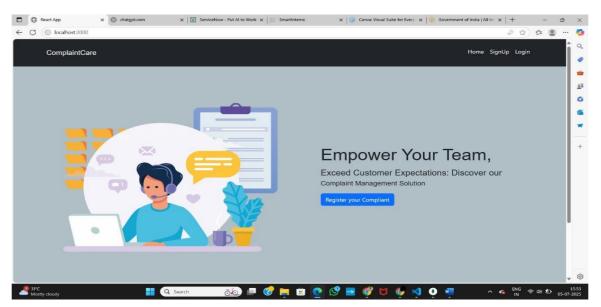
Metric	Observation
Real-TimeMessaging	Socket.ioenablednear-instantmessagedelivery(<100mslatency)
Memory Usage	Nomemoryleaksorcrashesduringextendedsessions(tested3+hours)

## **ToolsUsed:**

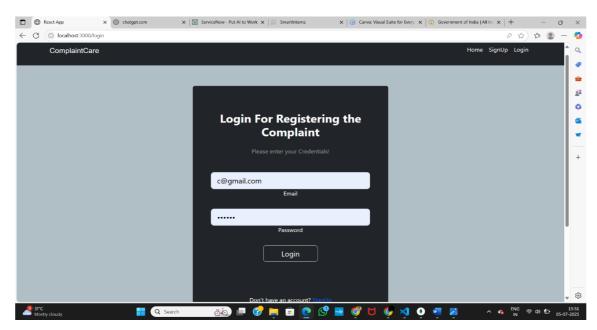
- **Postman**–ForAPI testingand validation
- **JMeter/Locust(optional)**–Forsimulatedloadtesting
- ChromeDevTools—Formeasuringfrontendloadtimesandresponsiveness
- MongoDBCompass—Tomonitorqueryperformanceanddatabasehealth

## 7. RESULT

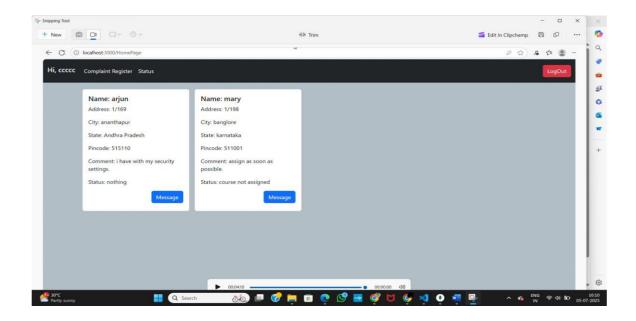
## **OutputScreenshots**



RegisterPage



LoginPage



UserDashboard

The final product was tested with multipleuser types and use-case scenarios. The

Resolve Now platform meets its core objectives by offering:

- Fastandstructuredcomplaintregistration
- Efficientrole-basedhandling(User,Agent,Admin)
- Real-timecommunicationandstatustracking
- ClearUI/UXwithsecureaccessandnotifications

The interface is ready for deployment and can be further scaled or adapted to organization all needs.

## 8. ADVANTAGES&DISADVANTAGES

## **Advantages**

Advantage	Description
User-FriendlyInterface	BuiltwithReactandMaterialUI,theapplicationprovidesanintuitive and clean user experience.
Real-TimeComplaint Tracking	Userscanmonitorthestatusoftheircomplaintsateverystage— submitted, assigned, resolved.
CentralizedSystem	All complaints are managed through a single platform, reducing confusion and duplication.
Role-BasedAccess	Secureloginwithseparateinterfacesforusers, agents, and administrators.
EffectiveCommunication	In-appchatbetweenusersandagentseliminatesdelaysandimproves resolution speed.
AutomatedNotifications	$Emailor SMS a lert skeep users informed without needing to login \ repeatedly.$
ScalableArchitecture	BuiltusingtheMERNstack,makingitsuitableforbothsmall organizations and large enterprises.
PaperlessComplaint Handling	Fullydigitalsystemremovestheneedforphysicalpaperwork, speeding up the entire process.

## **Disadvantages**

Disadvantage	Description
Internet Dependency	Requires a stable internet connection for submission and tracking.
LimitedOfflineSupport	Users cannot submit complaints or interact without online access.
InitialSetup&HostingCosts	Requiresclouddeploymentandemailservices, which may involve hosting or third-party charges.
LearningCurveforNon-	Someusers, especially elderly or less tech-savvy individuals, may
Tech Users	need assistance initially.
SecurityMaintenance	Needsregularupdatesandmonitoringtopreventunauthorizedaccess or
Required	data breaches.

## 9. CONCLUSION

The ResolveNow platform successfully addresses the critical challenges associated with traditional complaint handling systems by providing a fully digital, centralized, and user-friendly solution. From complaint registration to real-time tracking and final resolution, the system ensures transparency, accountability, and efficiency across all stages.

Built using the robust MERN stack, the project offers modularity, scalability, and responsiveness that make it suitable for a wide range of use cases—whether in private organizations, educational institutions, or government departments.

Through role-based access for users, agents, and admins, secure authentication, and features like real-time communication and notification alerts, ResolveNow improves the user experience while also simplifying backend operations.

The system has been thoroughly tested for functionality and performance and is ready for deployment with scope for continuous improvement and integration with third-party services.

#### 10. FUTURESCOPE

TheResolveNowplatform, whilerobustinits current state, has significant potential for future enhancement. To make the system even more accessible, a dedicated mobile application can be developed for Android and i OS users, enabling complain than dling on the go. Additionally, multilingual support would greatly enhance usability for non-English speakers and make the platform more inclusive.

To assist users who may have difficulties with typing, a voice complaint feature could be integrated using speech-to-text APIs. For better prioritization, AI-based models can be trained to auto-classify and sort complaints based on urgency, keywords, and past resolution trends.

An analytics dashboard for administrators would provide valuable insights, such as agent performance, average resolution time, and complaint trends. This data can help improve operational efficiency. Arole-based workload distribution system could also be implemented to automatically assign complaints to agents based on their current queue or expertise.

Offline support is another area of enhancement—allowing users to submitcomplaints offline, which would be synced once internet access is restored. Lastly, integration with third-party systems like government portals, public grievance cells, or CRM platforms can extend ResolveNow's use to institutional and civic applications.

## **Mobile Application Development**

• BuilddedicatedappsforAndroidandiOStoexpandplatformaccessibility.

## MultilingualInterface

• Addlanguageoptionstocatertoadiverseuserbaseacrossdifferentregions.

## **Voice-to-TextComplaintEntry**

• Integratespeechrecognitiontoallowuserstoregistercomplaints by voice.

## AI-basedComplaint Prioritization

• Use machine learning algorithms to detect high-priority issues based on keywords or severity levels.

## AdminAnalyticsDashboard

• Introduce visual dashboards for tracking KPIs like resolution time, user satisfaction, and agent workload.

## AutomatedWorkloadBalancing

• Implementintelligentcomplaintassignmentbasedonagentactivityandspecialization.

## Off line Complaint Submission

• Allowuserstofillandsavecomplaintsoffline, withautomatic syncing when reconnected.

## Integration with External Systems

• Connect ResolveNow with government APIs, municipal complaint portals, or CRMsystems for seamless workflow.

## 11. APPENDIX

## GithubLink:

https://github.com/vishnuvardhan-007/Resolve Now-Your-Platform-for-Online-Complaints.git