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
- ResponsiveUIformobileanddesktop
- ScalabledatabaseandbackendAPIarchitecture

DataFlowDiagram

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