Technology Stack

Date: 28 June 2025

🔟 Team ID: LTVIP2025TMID49956

Project Name: Resolve Now: Your Platform for Online Complaints

Maximum Marks: 4 Marks

1. Front-End (Client-Side)

Technology Purpose

HTML5, **CSS3** For creating the structure and styling of the

user interface

JavaScript To make the UI interactive and responsive

React.js or **Vue.js**For building dynamic, component-based

web interfaces

Bootstrap/Tailwind CSS For responsive design and ready-to-use UI

components

2. Back-End (Server-Side)

Technology Purpose

Node.js with Express.js Handles API requests, routing, and

middleware logic

Python with Flask/Django (optional Backend logic and processing if a Python

alternative) stack is preferred

🔡 3. Database

Technology Purpose

MongoDB NoSQL database for storing complaints and

user data

MySQL/PostgreSQL (optional alternative) For structured relational data if preferred



🔒 4. Security & Authentication

Purpose Technology

JWT (JSON Web Tokens) For secure user authentication

bcrypt.js For password hashing and user credential

protection

SSL/TLS Encryption For securing data transmission



5. Notifications

Technology Purpose

Twilio / Firebase Cloud Messaging (FCM) For sending SMS or push notifications to

users

Nodemailer / SMTP For sending email updates about

complaints



6. Hosting & Deployment

Platform Purpose

GitHub + Vercel / Netlify For frontend deployment and version

control

Render / Railway / Heroku For backend API hosting

MongoDB Atlas / PlanetScale For cloud database hosting



7. Tools & Utilities

Tool **Purpose**

Postman For testing API endpoints

Git & GitHub Version control and collaboration

Figma / Adobe XD For UI/UX design and prototyping