

PROJECT DESIGN PHASE 2

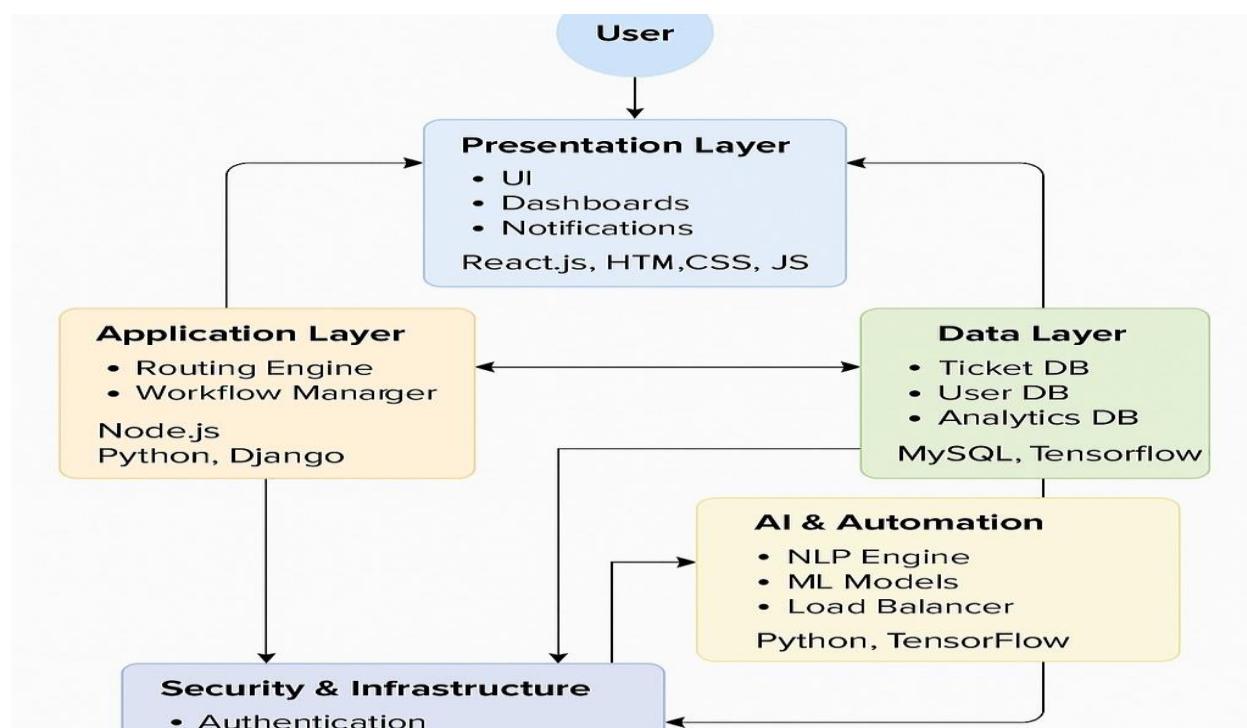
TECHNOLOGY STACK (ARCHITECTURE & STACK)

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Date	02 NOVEMBER 2025
Team ID	NM2025TMID04781
Project Name	Streamlining Ticket Assignment for Efficient Support Operations
Maximum Mark	4 Marks

Technical Architecture:

The technical architecture for the Streamlining Ticket Assignment for Efficient Support Operations project is designed as a modular, scalable, and secure system to ensure efficient automation and data-driven decision-making. It follows a three-tier architecture consisting of the



Presentation Layer, Application Layer, and Data Layer, supported by intelligent automation and analytics modules.

Components and Technologies:

Layer	Components	Technologies / Tools
1. Presentation Layer	- User Interface (UI)- Dashboards- Notification Center- Reporting & Analytics Views	HTML5, CSS3, JavaScript, React.js / Angular, REST APIs Node.js, Python (Flask / Django), Express.js, Java Spring Boot

AWS / Azure, Docker,
Kubernetes
Grafana, Kibana, Prometheus,
Power BI

- Ticket Routing Engine- Workflow

2. Application Layer Manager- Notification Service-
Integration Module

- Ticket Database- User Database-

3. Data Layer Analytics Database- Logging & Audit
Database

4. AI & Automation Layer - NLP Engine- Machine Learning Model-
Load Balancer

- Authentication & Authorization- Data

5. Security & Infrastructure Layer

- Encryption- Cloud Deployment- Backup

& Recovery

6. Monitoring & Reporting Layer

- System Monitoring Tools- Performance Metrics Dashboard- Log Management