

Requirement Gathering and Analysis Phase Technology Stack (Architecture & Stack)

Date	6 th July 2024
Team ID	SWTID1720103759
Project Name	Project – Online Management and Complaint System
Maximum Marks	3

Technical Architecture:

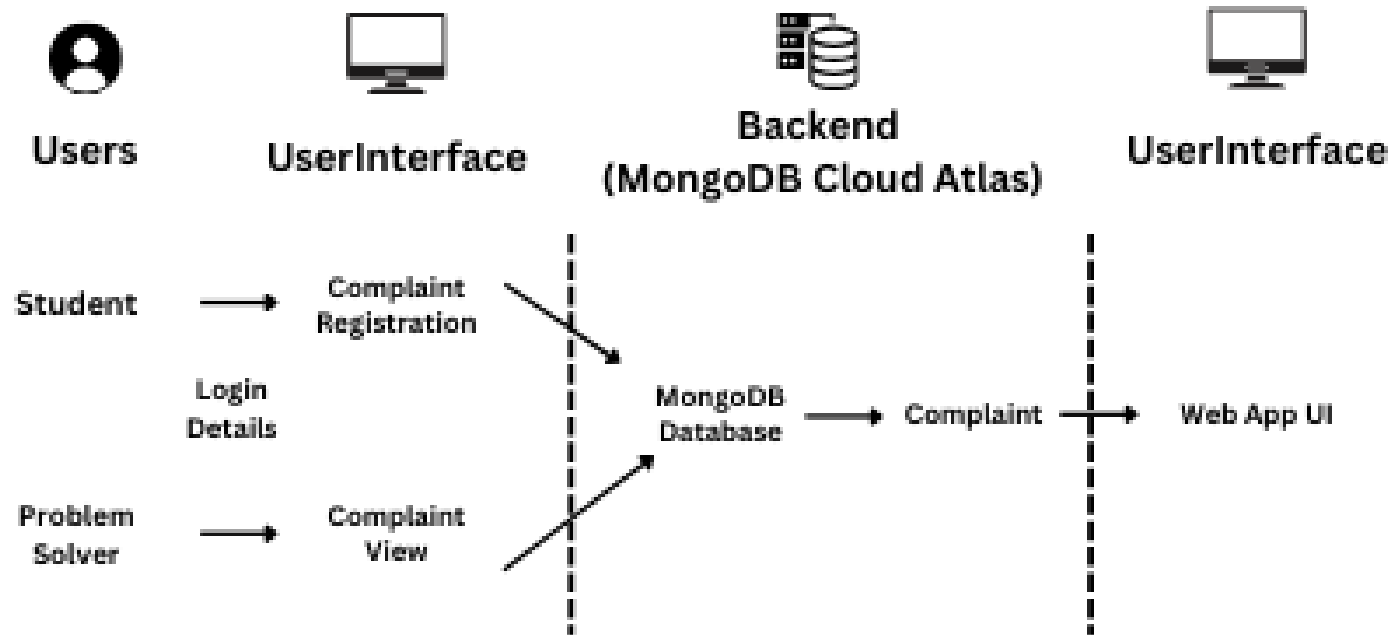


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI for customers and problem solvers	HTML, CSS, JavaScript, React.js, Bootstrap, Tailwind CSS.
2.	Application Logic-1	Complaint registration	Node.js
3.	Application Logic-2	Complaint assignment	Node.js
4.	Application Logic-3	Status update	Node.js
5.	Database	Data storage	MongoDB
6.	Cloud Database	Database Service on Cloud	MongoDB Atlas
7.	Infrastructure	Application Deployment on Local System	Local Server

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	React.js for front-end, Node.js for back-end	React.js, Node.js
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	MongoDB
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	MongoDB(redundancy of data)
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	MongoDB(Cloud based infrastructure) And cloud based server hosting(if possible)