

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

Date	22 June 2024
Team ID	SWTID1720433526
Project Name	Project - Book-Store
Maximum Marks	3 Marks

**Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS, JavaScript / React.js
2.	Backend	Application Logic for backend processes	Node.js, Express.js
3.	Database	Data storage and configurations	MongoDB
4.	Cloud Database	Database service on Cloud	MongoDB Atlas
5.	File Storage	File storage requirements	ASW S3, Local Filesystem
6.	External API -	Integration	Google Books

	1	with external APIs	API
7.	External API - 2	Integration with external APIs	Payment Gateway API
8.	Infrastructure	Application Deployment	AWS EC2, Docker, Kubernetes

### Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	React.js, Node.js	JavaScript
2.	Security Implementations	JWT authentication, HTTPS	SHA-256, SSL / TLS
3.	Scalable Architecture	Microservices architecture	Docker, Kubernetes
4.	Availability	Loading balancing, High Availability	AWS ELB, Auto Scaling
5.	Performance	Caching, CDN integration	Redis, AWS CloudFront

