

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID30896
Project Name	Smart Solution for Railways
Maximum Marks	4 Marks

Technical Architecture:

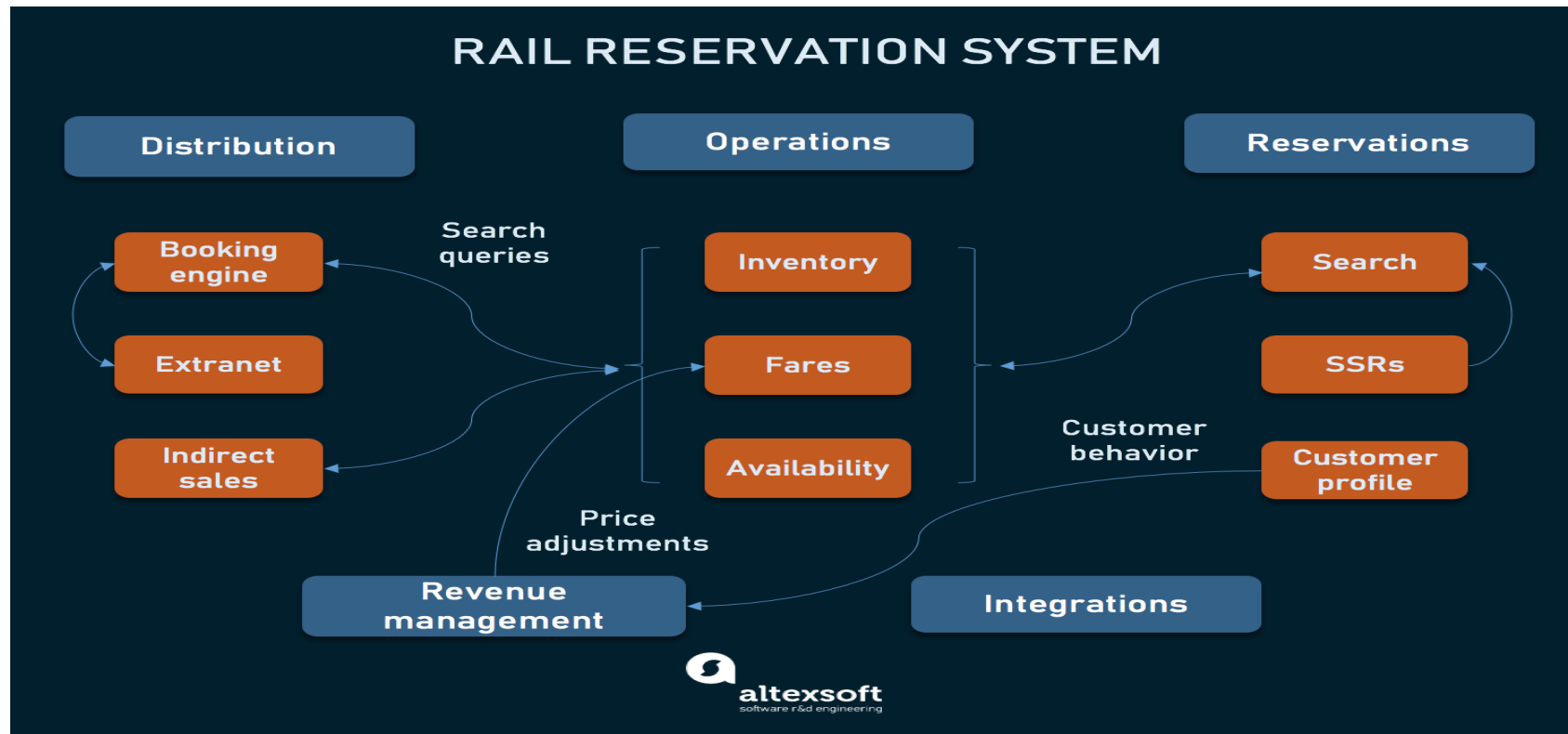


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile App	HTML, JavaScript
2.	Application Logic-1	Developing the software	Python
3.	Application Logic-2	Convert written text into audio messages	IBM Watson STT service
4.	Application Logic-3	Cab build conversational interface into devices	IBM Watson Assistant
5.	Database	5.3.3.1 mysql server configuartion	MySQL
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-2	For secured booking of tickets	Aadhar API.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: BOSH Lite cd bosh-lite vagrant up --provider=virtualbox. Cloud Server Configuration : Ruby web server	Cloud Foundry, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Django,angularjs	Python
2.	Security Implementations	Framework security	SHA-256,IAM Controls, OWASP
3.	Scalable Architecture	Its more scalable	VLSI designing
4.	Availability	It will be available all over the world by using internet	Internet access
5.	Performance	It has increased performance as more number of requests can be performed in a single cycle	Pipelining