

Project Phase II

Technical Architecture(Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID37693
Project Name	Project – Traffic and Capacity Analytics for Major Ports.
Maximum Marks	4 Marks

Technical Architecture:

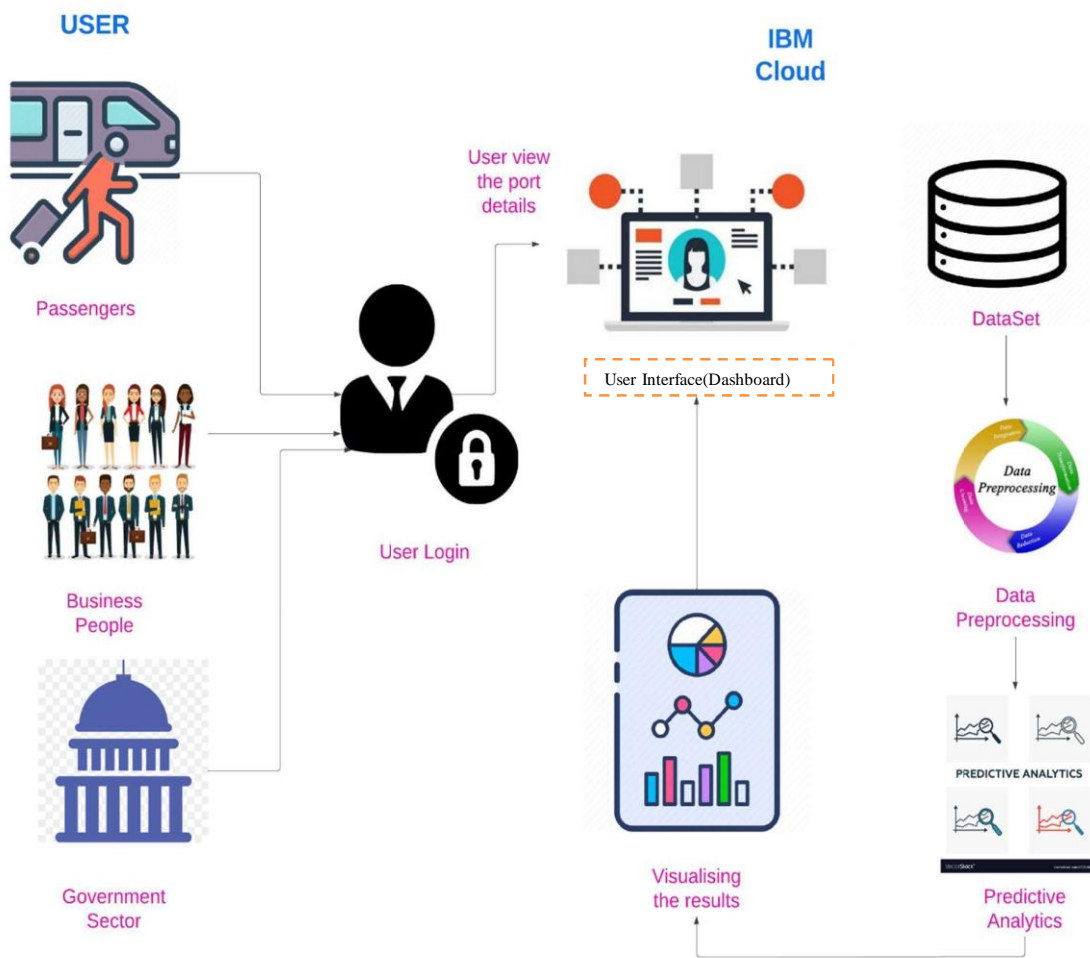


Table-1 :Components & Technologies:

S.No	Component	Description	Technology
1.	User Login	Business People, Government sector, Passengers able to login into the website	Data set
2.	Data Pre processing	Pre processing of data should be done	Python
3.	Dataset	Dataset consists of port information	Python
4.	Predictive Analysis	Exploring the data using boxplot, pie plot, scatterplot etc.. to make predictions about future outcomes and performance	Python
5.	Data Visualisation	Graphical representation of data and information Ex.: Bar chart, pie chart etc.,	IBM DB2, IBM Cloudant etc.
6.	User Interface	User can Interact with web Application	Data set.
7.	Dashboard	Dashboard showing the port details	Data set.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Security Implementations	The main security concern is for users account hence proper login mechanism should be used to avoid hacking.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
2.	Availability	The system shall be available 24 hours a day 7 days a week. User can access at anytime	Technology used.
3.	Performance	The system should require a fair amount of speed especially while browsing through the catalogue	