

PROJECT FLOW

TEAM ID	PNT2022TMID44353
PROJECT NAME	Traffic and Capacity Analytics for Major Ports

Skill Tags:

- ❖ Users create multiple analysis graphs/charts/Visualizations.
- ❖ Using the analyzed chart creation of Dashboard is done
- ❖ Saving and visualizing the final dashboard in the IBM Cognos Analytics.

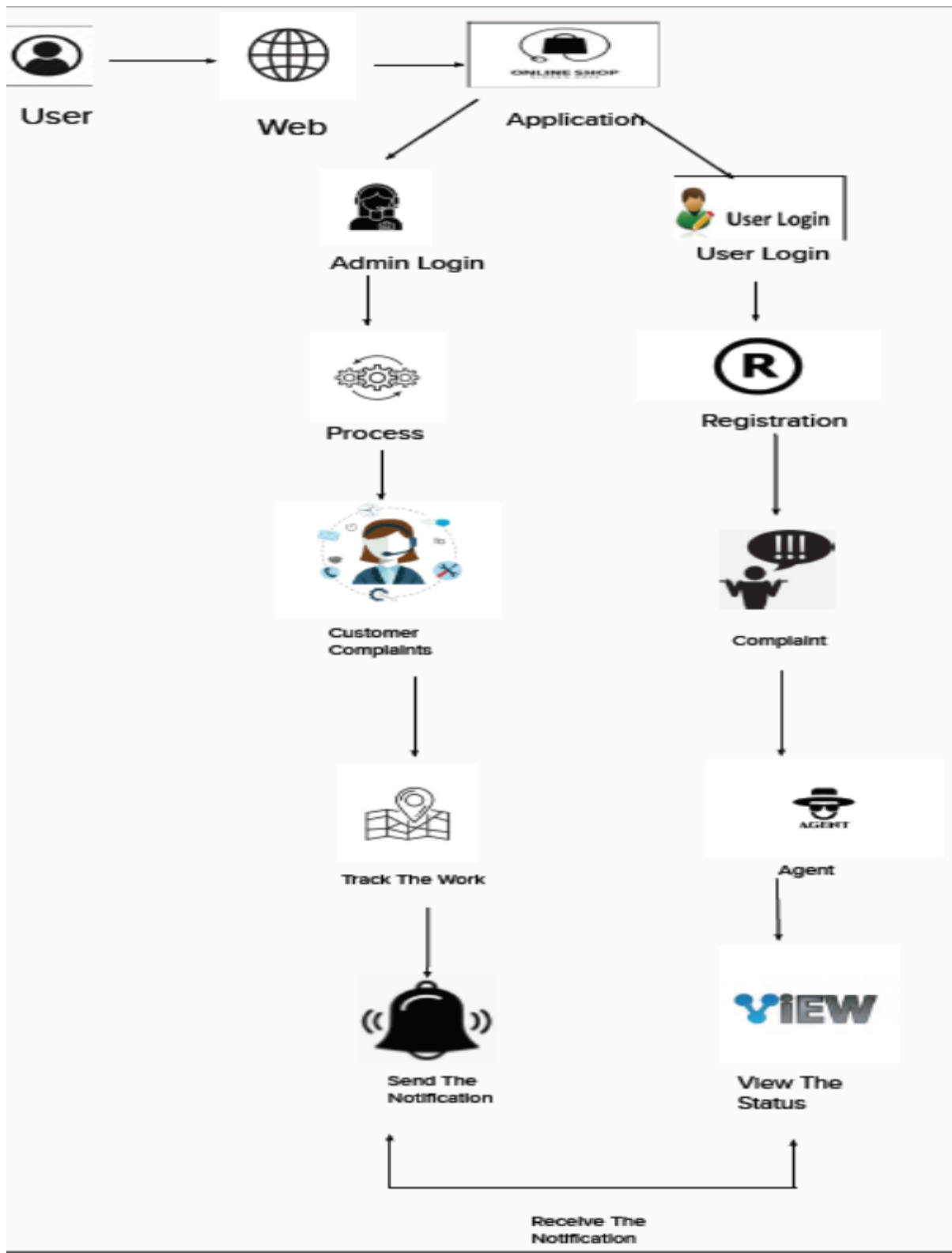
Activities and Tasks listed below:

- ❖ IBM Cloud Account
- ❖ Login to Cognos Analytics
- ❖ Working with the Dataset
- ❖ Understanding the Dataset
- ❖ Loading the Dataset

Data Visualization Charts:

Sno	Visuals to be Uploaded
1	Upload Data set
2	Data Prep - Conversion of Data and Calculations
3	Port-wise Traffic Distribution, Port wise Capacity Distribution
4	Port-wise Traffic vs Capacity by Line Chart
5	Port-wise Traffic Projected vs Achieved by Column Chart
6	Port-wise Traffic Projected vs Achieve by Stacked Column Chart
7	Port-wise Total Capacity Projects vs Total Capacity Achieve by Line and Bar Chart
8	Port-wise Traffic Projects vs Total Projected by Area Chart
9	Port-wise Total Capacity Achieve, Traffic Achieved using Stacked Bar
10	Filters
11	Port-wise Total Capacity Achieved using Map
12	Summary Cards and Visual using Total Capacity vs Actual Capacity Column Chart

Solution Architecture:



PROJECT OBJECTIVE

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Transport Research Wing (TRW), Ministry of Ports, Shipping and Waterways collects, compiles and disseminates time series data on Ports, Shipping, Ship Building and Ship Repairing and Inland Water Transport. Besides, it is also responsible for rendering necessary research and data support to the various wings of the Ministry of Ports, Shipping and Waterways for policy planning in the above mentioned sectors.

Transport Research Wing collects data on Ports, Shipping, Ship Building and Ship Repairing and Inland Water Transport from the concerned source agencies viz. Major ports; State Maritime Boards/State Directorates; Directorate General of Shipping, Shipping Corporation of India, shipping companies in private sector, Ship building companies; Inland Waterways Authority of India and State Governments. The data received from various primary/secondary sources is scrutinised and validated for consistency and comparability and compiled as per the requirement.

The compiled data is disseminated to the users through the following publications:

- Basic Port Statistics (Annual)– It gives information on major ports and non-major ports in respect of cargo traffic – commodity wise, type of cargo, performance indicators, port capacity and its utilization, employment and financial performance.
- Update on Indian Port Sector (biannual) – This publication throws light on latest developments at Indian Ports inter-alia macro-economic indicators of India as compared with world indicators. The publication covers state-wise analysis of the developments in the area of sea-borne traffic for maritime States/UTs particularly in respect of cargo traffic, efficiency Indicators and projects under implementation.
- Indian Shipping Statistics(Annual)–The publication contains data on Indian fleet-overseas and coastal fleet by type, size and age of vessels; Net additions to Indian fleet; fuel prices for vessels plying on international run, fleet owned by Shipping Corporation of India, performance of Shipping.

- Statistics of India's Ship Building and Ship –Repairing Industry (Annual)–The publication contains information on Indian Ship Building and Ship Repairing Industry –capacity, facilities, orders in hand and delivered, employment and financial performance etc.
- Statistics on Inland Water Transport (Annual)–The publication contains data on navigable waterways, no. of inland water transport vehicles and their ownership infrastructure facilities available on national/state waterways, cargo movement, Plan outlay and expenditure etc.