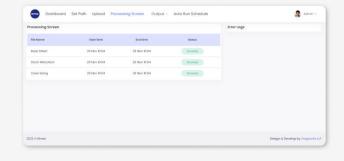
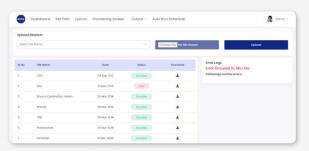


Client Overview

- World leader in cosmetic industries.
- · In India they have 2 manufacturing plants
- Have huge network of CFA, Sub CFA, Distributors across India.
- · Have more than 20,000 SKUs



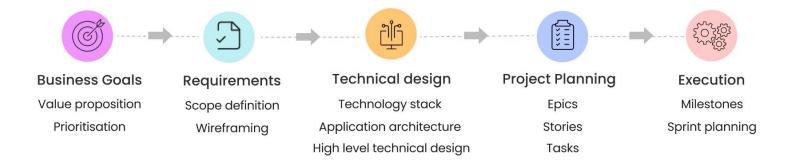




Current System

- Daily stock at location, Stock in transit, open orders and sales of each SKU at each CFA location is available from SAP.
- Forecast for each CFA, SKU wise is available from other system on a monthly basis.
- Other data points are available from different sources.
- This compiled data is used for dispatching stock to various CFA and Distributors.
- This data also becomes base for Truck loading.

Methodology





Challenges with current system

- There are many sources of huge data and ensuring all are considered at appropriate time by manual methods is very difficult.
- It involves various steps of manually doing tedious calculations in excel sheet. Chances of manual error are high, leading to miscalculations in stock to be sent, triggering either over stocking or stock out position.

| 80027 | phiwandi | | Anmadabad | SPIM |
|-------|-----------|----------|-----------|------|
| 80027 | BANGALORE | Bhiwandi | BANGALORE | 3PM |
| 80027 | BHIWANDI | Bhiwandi | BHIWANDI | 3PM |
| 80027 | Bangalore | Bhiwandi | CHENNAI | 3PM |
| 80027 | Bangalore | Bhiwandi | COCHIN | 3PM |
| 80027 | Delhi | Bhiwandi | DEHRADUN | 3PM |
| 80027 | DELHI | Bhiwandi | DELHI | 3PM |
| 80027 | Kolkata | Bhiwandi | GUWAHATI | 3PM |
| 80027 | Bangalore | Bhiwandi | HYDERABAD | 3PM |
| 80027 | Bhiwandi | | INDORE | 3PM |
| 80027 | Delhi | Bhiwandi | JAIPUR | 3PM |
| 80027 | Kolkata | Bhiwandi | Kolkata | 3PM |
| 80027 | Delhi | Bhiwandi | LUCKNOW | 3PM |

| SPGR | SKU Code | Description | BGR | Classification |
|----------|----------------|--|---------------------|----------------|
| 89053 | 89053-09820-41 | NSFT PLS_IAR MINI 25ML | SOFT | A |
| 89053 | 89053-09821-41 | NSFT PLS_JAR MINI 25ML | SOFT | A |
| 89053 | 89053-09823-41 | NSFT PLS_JAR MINI 25ML | SOFT | A |
| 89053 | 89053-09825-41 | NSFT PLS_JAR MINI 25ML | SOFT | A |
| 89054 | 89054-09827-41 | NSFT PLS_JAR 50ML | SOFT | A |
| 80201-GT | 80201-09876-41 | NBODY ESS RCH_CRG_MLK 200ML | BODY | A |
| 85083 | 85083-04906-48 | NLC SBY 4,8G PACK_OF_2 | NLC | A |
| 80789 | 80789-04901-71 | NBC SHR WTR_LLY&OIL 250ML +LOOFAH_FREE | SHOWER | A |
| 81067 | 81067-04901-71 | NBC SHR LMN&OIL 250ML +LOOFAH_FREE | SHOWER | A |
| 81779 | 81779-04902-28 | NMEN ALL_IN_1 FW_50ML_RS_25_OFF | NM FACE - CLEANSING | В |
| 88411 | 88411-04901-41 | NBODY ESS CC_LTN PNBRO_SOFT BBD COMBO_PA | BODY | A |
| 81067 | 81067-04909-80 | NBC SHR LMN&OIL 250ML PACK_OF_3 | SHOWER | A |
| 84583 | 84583-04901-71 | NBC SHR FRNG&OIL 125ML RS 26 OFF | SHOWER | A |

- Since process is human dependent, getting the correct data for dispatches takes time. A person or sometime 2 are involved in doing this activity for whole day.
- Also truck load is not correctly calculated, causing underutilization of truck capacity.

Our Solution

- Made the process human less.
- Automated the process of collecting various data reports.
- These reports are automatically uploaded to the server, where client defined calculations happen and data is prepared for consumption.
- · Various reports like
 - Allocation of stock report based on current stock position, stock in transit, forecast and sell cycle.
 - Generates stock allocation report considering following scenario
 - Over selling
 - Normal selling and
 - · Under selling
- Create an update file to be uploaded to SAP for sales order generation.
- Also keep backup to know how stock allocation has happened over the period.









MS SQL

Tools & Technologies

- Azure App Service is fully managed PaaS.
- Frontend built in React Application.
- Backend with .NET Core 7 a cross-platform.
- Web API using Entity Framework Core for building RESTful APIs.
- Azure SQL Database provides high availability.
- Azure Scaling Options allowing the application to scale horizontally.

Business Impact

- · Optimized truck capacity utilization.
- Managed FIFO, scheme-related SKUs, and other factors efficiently.
- Eliminate stock-out situations, leading to enhanced operational efficiency.
- Automated calculations for in-transit stock, available-to-promise, and capable-topromise data.
- Independent processing with near-real-time results, requiring no human intervention for calculations.

ZingWorks LLP









