



1. Introduction of Project

Comprehensive Material and Ingredient Management System, designed to streamline inventory tracking for efficient manufacturing and product development processes. Corewave is a leading Software Development company providing **On Demand Software**, that too at an affordable price.

Deliverables:

- Admin (Web Panel)

2. Purpose of Project

2.1 Targeted Region

Suggested by client

2.2 Required Third Party API's

- Twilio/MSG 91 for OTP verification and password recovery
- Send Grid API for mail verification

3. Key Modules Available

Material Library/Purchase Management System:

1. **Material/Purchase Database Management:**
 - Create and maintain a comprehensive database of Raw materials.
 - Store information such as material name, type, pricing, availability, Safety Stock, Cost Influencing Factors, MSDS, Imported/Domestic.
2. **Search and Filtering Capabilities:**
 - Enable users to search and filter materials based on various parameters like name, type, properties, etc.
3. **Material Properties Management:**
 - Record and manage detailed properties of each material such as density, color, texture, strength, etc.
4. **Cost Management:**
 - Track the cost associated with each material.
 - Generate cost reports and analysis for budgeting purposes.
 - Price change trends for certain period
5. **Material Usage Tracking:**
 - Record and track the usage of materials in various projects or applications.
6. **Security and Access Control:**



Material Management System

- Implement user authentication and authorization mechanisms to ensure data security.
- Define user roles and permissions to control access to sensitive information.

7. Reporting and Analytics:

- Generate reports on material usage, inventory status.
- Approved vendors, price increase period wise

8. Product Management:

- Add product and map with the Batches as well as Version History
- Add Different Additional prices (Eg. Cost of Manufacturing, Packing, Variable etc)
- Product application and value addition

Version/QC Management System:

1. Ingredient Database Management:

- Maintain a centralized database of ingredients used in manufacturing processes.
- Store details such as ingredient name, type, safety data, etc.

2. Recipe Formulation:

- Allow users to create and manage recipes for products.
- Specify ingredient quantities, proportions, and preparation instructions.
- Recipe change management, approval process. (Via Admin)

3. Additional Details:

- Adding Notes while preparing all the Versions of the Product

4. Quality Control Management:

- Collecting and feeding all the Feedbacks as well as errors in system while requesting for next Version preparation
- Add Production Defects and Customer Complaints on Versions of the product

5. Inventory Control:

- Track inventory levels of each ingredient.
- Implement alerts for low stock levels and automate reordering processes.

6. Version Tracking and Traceability:

- Assign unique identifiers to ingredient batches for traceability (Version Control)

7. Reporting and Analysis:

- Generate reports on ingredient usage, inventory levels, supplier performance, etc.
- Analyze data to optimize ingredient procurement and utilization processes.

Sales/Distribution Team Portal

- Get A list of all the products with real-time updated pricing

Add A Module New Product / Process Development.

1. objective of NDP. expected value addition. expected sales volume projection. implementation plan. developmental data. (Via Excel)