# **IndustyAssist**

Manage your day-to-day tasks performed at the industry

Category - Web Application

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# **Overview**

It is a web application which fulfills the day-to-day requirement of Manufacturing Industries. This application aims at providing an efficient interface to the industry for managing their product inventory based on each item sold/produced and help their marketing team with a simple and friendly way to create orders.

- The Inventory will be updated according to daily production, sales, consumption of raw materials. he inventory
- ❖ The new ordering system will allow salespeople to create orders using the software, the created orders that need to be dispatched will be reflected at the admin side.

The Web Application provides two Interfaces:

- Admin -
  - The owner or manager of the manufacturing Industry
  - Is able to login to the interface after jwt based authentication.
  - Is able to add / remove / update items from the inventory
  - Is able to approve the employees and manage them
  - Is able to view and take action on the placed orders.
  - Is able to view feedback and payment collected by the employee.
- Employee -
  - The employee of the sales team of the industry
  - Is able to register and login the interface after jwt based authentication
  - Is able to add new customer to the company
  - Is able to view the product availability
  - Is able to place orders for the customers
  - Is able to give feedback to company

Software development Model used: Waterfall Model

# **Testing**

For the testing purpose we have used the **Unit testing** methodology as our web application has several independent modules based on the functional requirements.

#### API's Unit testing:

We have used NodeJS and ExpressJS for writing backend API's. In order to perform unit testing on the API's we have used *Mocha* - a javascript framework for Node.js which allows Asynchronous testing and Chai - an assertion library to assert the actual output with the accepted output.

We have written test files for testing the API's. Here we will explain the structure of one of our test file written for testing :

```
let mongoose = require("mongoose");
const Address = require("../models/Address");
const Customer = require("../models/Customer");
const City = require("../models/City");

//Require the dev-dependencies
let chai = require("chai");
let chaiHttp = require("chai-http");
let server = require("../server");
let should = chai.should();
chai.use(chaiHttp);
```

First we will start with importing database models that are been used in the current API's

Now, we will use describe(string,callback) for writing our test cases for the API. Inside the callback, at first we will use before() function to empty our database collection before every test case.

Now, Inside the callback we will start to write the test case for the API. This photo shows the testing for a get customer route. Here we first make and request to the API and then check the returned output with the expected output.

Similarly, we wrote the other test cases for our API's.

#### Below are the Test result for our backend API's:

#### Manual testing:

Upon the implementation of our Web App, it was the time for testing it for all the intended requirements.

Below are the test cases for various functionalities of our application:

#### Register And Login functionality for both Admin and Employee:

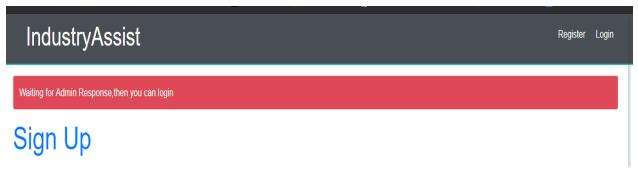
Note: Only Approved Employees can Login to the Application (part of requirements)

#### # TestCase 1 : (SignUp)

**Input**: Proper Details are filled in the form while Sign up (Register)



#### Output:



#### # TestCase 2 : (SignUp)

**<u>Input</u>**: In the Sign up form password and confirm password field doesn't match.

**Expected Output:** Password Mismatch (i.e. password and confirm password should be same)

#### Output:



#### **Status**: Passed

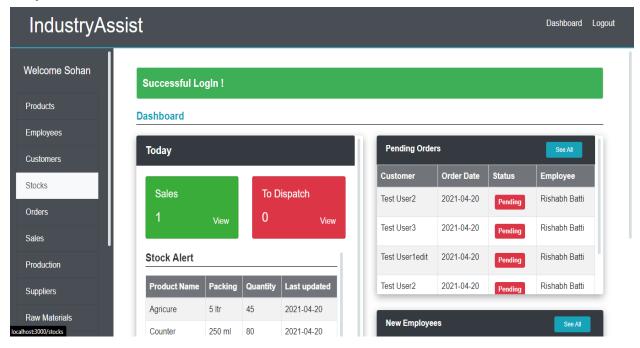
#### # TestCase 3 : ( LogIn)

Input : { Correct Email Id , correct Password }



**Expected Output**: Successful login! (i.e redirect to dashboard based on the role)

#### Output:



**Status**: Passed

#### # TestCase 4: (LogIn)

**Expected Output**: Invalid credentials i.e Login failed

#### Output:

Invalid Credentials

## Sign In

#### # TestCase 5 : (LogIn)

**Input**: Employee enters correct Email Id and Password but is not yet approved by admin.

**Expected Output**: Login Failed. ( you are not approved by admin )

#### Output:



## Sign In

#### **ADMIN INTERFACE**

#### 1. Approve new registered employee:

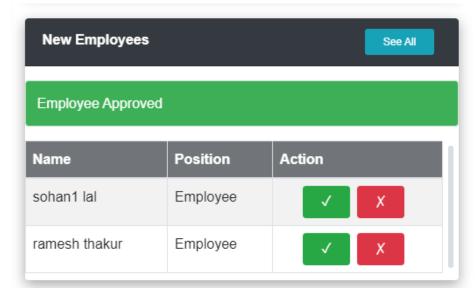
#### # TestCase 1.1:

**Input**: Click on Tick or Cross corresponding to the employee row.

New Employees		See All
Name	Position	Action
yash raj	Admin	→
sohan1 lal	Employee	✓ X
ramesh thakur	Employee	×

**Expected Output**: If tick is chosen the else approved else rejected

**Output**: (Based on the action taken (in this cases employee is approved))



#### 2. Add / Update Products:

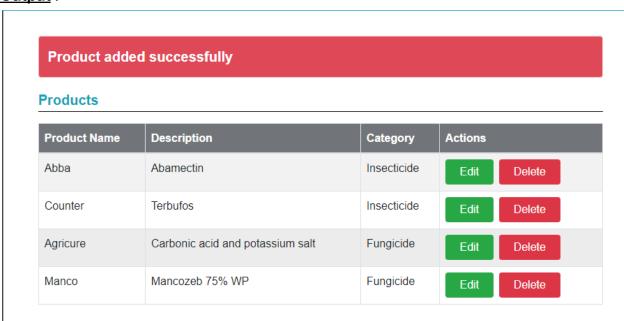
#### # TestCase 2.1: (ADD Product)

#### Input:

Add Product	
Product Name	
Manco	
Product Description	
Mancozeb 75% WP	
Category	
Fungicide	
Add Product	Cancel

**Expected Output**: Product Should be Successfully Added.

#### Output:



#### # TestCase 2.2 (EDIT Product):

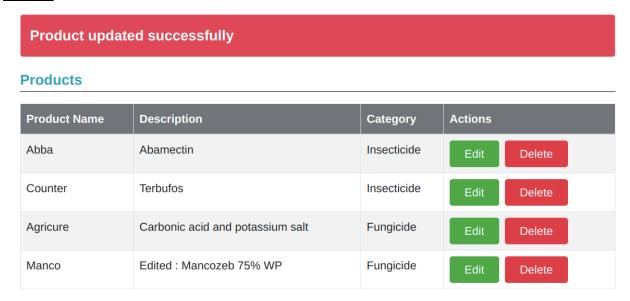
#### Input:

#### **Products**

Manco	Mancozeb 75% WP	Fungicide	Edit Delete
Product Name			
Manco			
Product Description			
Edited : Mancozeb	75% WP		
Category			
Fungicide		~	
Edit Product			

**Expected Output**: Product should be successfully updated.

#### Output:



#### 3. Add / Update Supplier:

#### # TestCase 3.1: ( ADD Supplier )

#### Input:

#### Add Supplier

Supplier Name		
Ramesh Tiwari		
Email	Mobile No.	
Ramesh@gmail.com	9876543445	
Address		
ME-037-350, VILL-Sojawalpur,		
Landmark		
Near Stadium		
Pincode	City	
611245	Pune	
Add Supplier		Cancel

**Expected Output**: Supplier should be successfully Added.

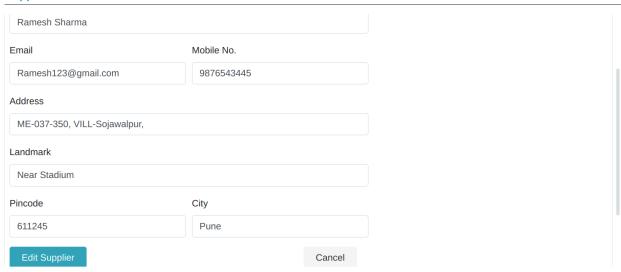
#### Output:



#### # TestCase 3.2: ( EDIT Supplier )

#### Input:

#### **Suppliers**



**Expected Output**: Supplier should be successfully updated.

#### Output:



#### 4. Add / Update Raw material:

#### # TestCase 4.1: ( ADD Raw-Material)

Input:

#### Add Raw Material

Raw Material Name		
Ethylenediamine		
Quantity		
35		
Unit		
kg		
Supplier Name		
Srinath Srivastav		~
Add Raw Material	Cancel	

 $\underline{\textbf{Expected Output}}: \textbf{Raw material should be successfully added}.$ 

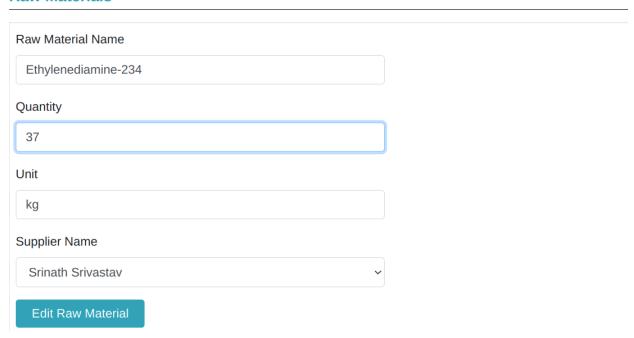
#### Output:



#### # TestCase 4.2: ( EDIT Raw-Materials )

#### Input:

#### **Raw Materials**



**Expected Output**: Raw material should be successfully updated.

#### Output:



#### 5. Add / Update Stock:

#### # TestCase 5.1:( ADD Stock)

#### Input:

#### Add Stock

Select Product	
Manco	~
Select Packing	
1	~
Quantity	
77	
Price	
250	
Add Stock	Cancel

**Expected Output**: Stock should be successfully added.

#### Output:



#### # TestCase 5.2: ( EDIT Stock)

#### Input:

# Select Product Agricure Select Packing Quantity 45 Price 140| Edit Stock

**Expected Output**: Stock should be successfully updated.

#### Output:



#### 6. Confirm and Dispatch Placed Order:

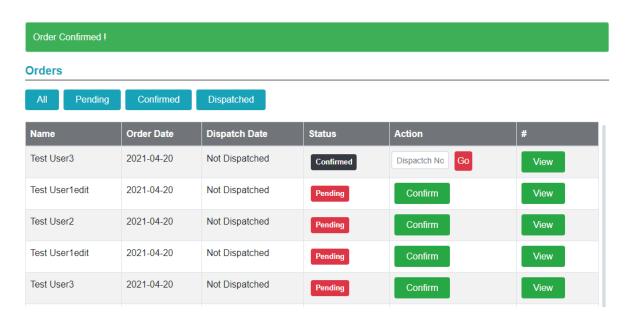
#### # TestCase 6.1: (confirm order)

**Input**: On click on Confirm button present corresponding to the order.

Orders					
All Pending	Confirmed	Dispatched			
Name	Order Date	Dispatch Date	Status	Action	#
Test User3	2021-04-20	Not Dispatched	Pending	Confirm	View
Test User1edit	2021-04-20	Not Dispatched	Pending	Confirm	View
Test User2	2021-04-20	Not Dispatched	Pending	Confirm	View
Test User1edit	2021-04-20	Not Dispatched	Pending	Confirm	View
Test User3	2021-04-20	Not Dispatched	Pending	Confirm	View
Test User2	2021-04-20	Not Dispatched	Pending	Confirm	View

**Expected Output**: Order status should be changed to confirmed..

**Output**: (order is now confirmed and waiting to be dispatched)



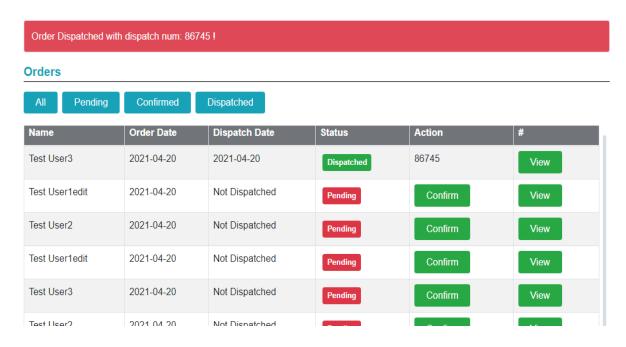
#### # TestCase 6.2 : (Dispatch order )

**Input**: On filling the dispatch number, click on go to dispatch the order

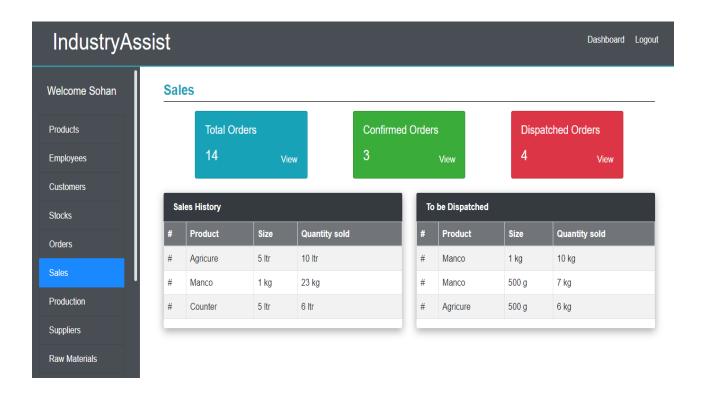
#### **Orders** Pending Dispatched Status Name Order Date **Dispatch Date** Action Test User3 2021-04-20 Not Dispatched Dispactch No Confirmed View Test User1edit 2021-04-20 Not Dispatched Pending Confirm View Test User2 2021-04-20 Not Dispatched Confirm View Test User1edit 2021-04-20 Not Dispatched Confirm Test User3 2021-04-20 Not Dispatched Confirm View Test User2 2021-04-20 Not Dispatched Confirm Pending View

**Expected Output**: Order status should be change to dispatched.

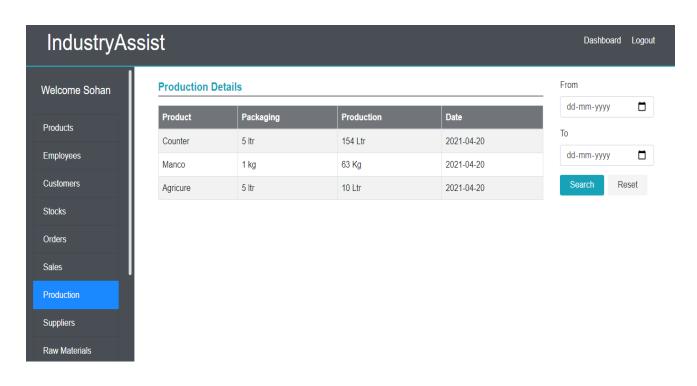
Output: (order is now dispatched and dispatched number can be seen)



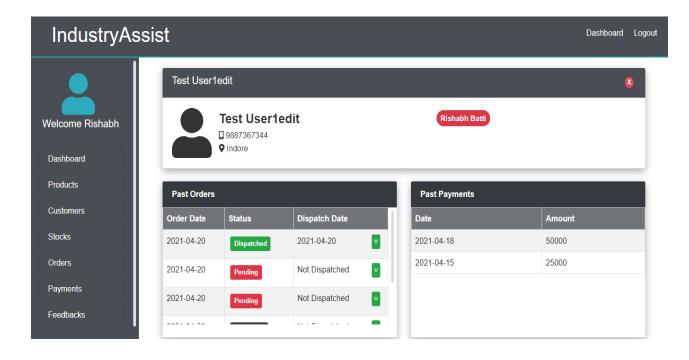
#### **View Sales details**



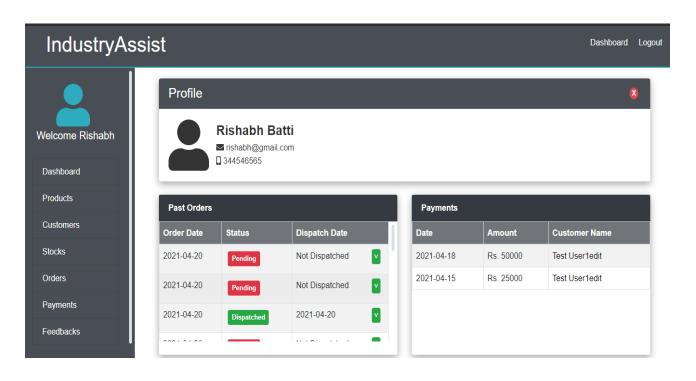
#### **View Sales and Production details**



#### **View Customers details**



#### **View Employee details:**



#### **EMPLOYEE INTERFACE**

#### 1. Add / Update customer:

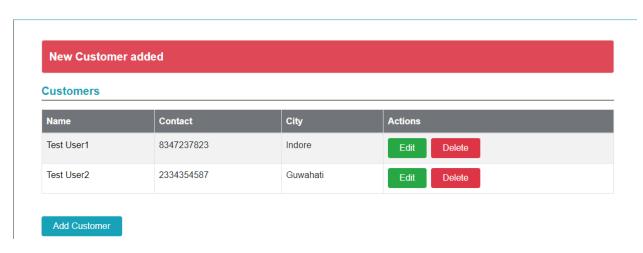
#### # TestCase 1.1 : ( Add new customer )

#### Input:

Add Customer		
First Name	Last Name	
Test	User2	
Mobile Number		
2334354587		
Address		
222 - A , xxc colony		
Landmark		
near dskdspl		
City	Pincode	
Guwahati	781015	
Submit		Cancel

**Expected Output**: Customer Should be Successfully Added.

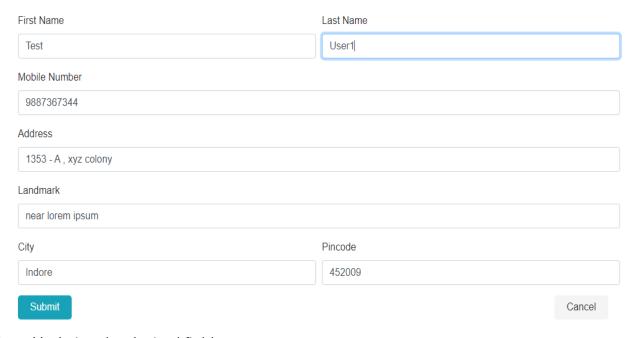
#### Output:



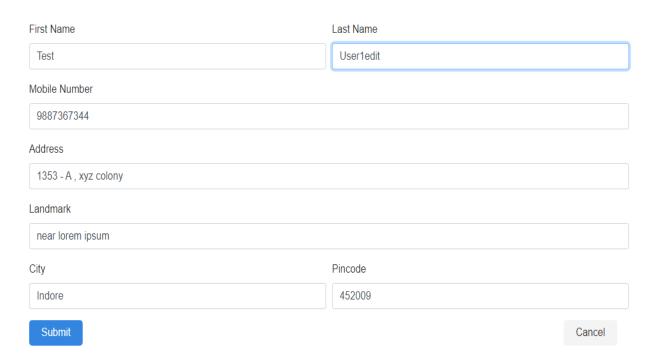
#### # TestCase 1.2: ( Update/edit customer details)

After clicking on the <u>Edit button</u> form with customer's details will open , which you can edit and click submit.

After edit Click: (previously stored customer details)



#### Upon Updating the desired fields:



#### Output:



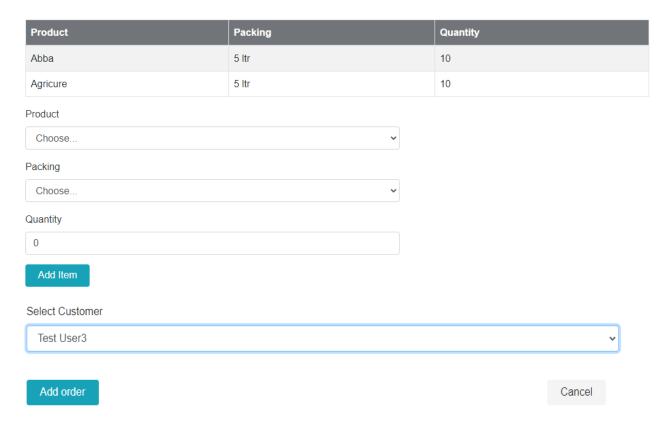
Status: Passed

#### 2. Place a new Order for a customer:

#### # TestCase 2.1:

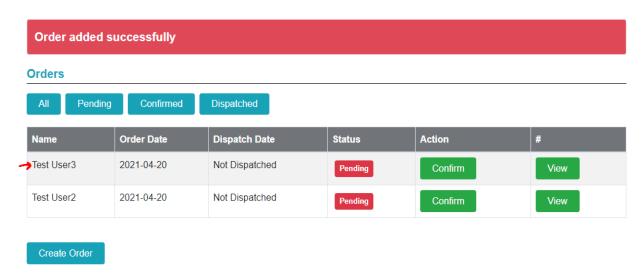
#### Input:

#### **Create Order**



**Expected Output**: Order Should be Successfully Placed.

#### **Output**: (on clicking Add order)



**Status**: Passed

#### 3. Add collected Payment detail:

#### # TestCase 3.1:

Input:

# Add Payment Customer Test User1 Date 15-04-2021 Amount 25000| Submit Cancel

**Expected Output**: Payment entry Should be Successfully Added.

#### Output:

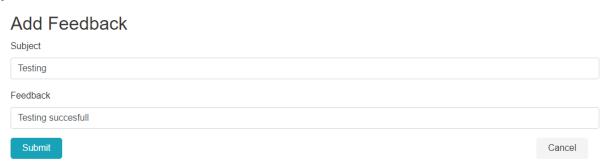


**Status**: Passed

#### 4. Give feedback to the company:

#### # TestCase 4:

#### Input:

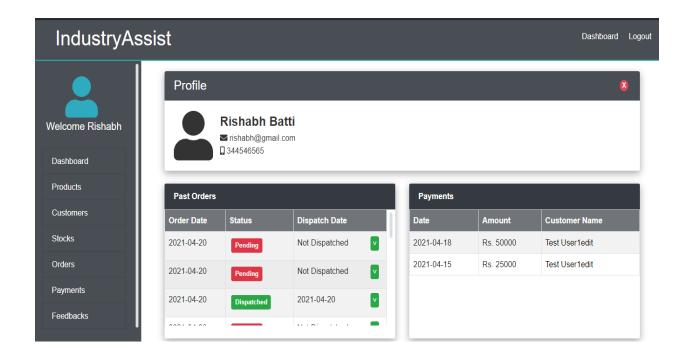


 $\underline{\textbf{Expected Output}}: \textbf{Feedback Should be Successfully posted}.$ 

#### Output:



#### View his/her Profile



#### View customer's Profile

