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

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 impor - ting 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.

```
//Our parent block
describe("Cusmoter", () => {
  before((done) => {
    //Before each test we empty the database
    Customer.remove({}, (err) => {});
    Address.remove({}, (err) => {});
    City.remove({}, (err) => {
      done();
    });
  });
});
```

```
// Test the customer GET route    --------------------------
describe("/GET customer", () => {
  //get all the customers
  it("it should GET all the customers", (done) => {
    chai
      .request(server)
      .get("/api/customer")
      .end((err, res) => {
        res.should.have.status(200);
        res.body.should.be.a("array");
        res.body.length.should.be.eql(0);
        done();
      });
  });
});
```

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 :

```
       √ it should DELETE a stock given the id (508ms)
       √ it should not DELETE as stock with id is not present in the database (172ms)

    Supplier
      /GET supplier
       √ it should GET all the suppliers (170ms)
      /POST supplier
       √ it should POST a supplier (674ms)
      /PUT supplier/:id
       √ Edit function of supplier is being checked (920ms)
      /DELETE supplier/:id
       √ Delete function of supplier is being checked (513ms)


    55 passing (29s)
```

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 :

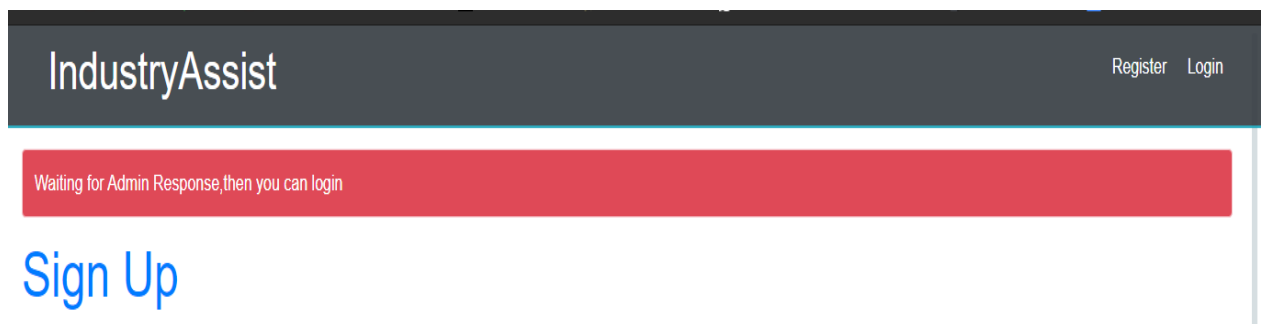Note : Only Approved Employees can Login to the Application (part of requirements)

 # TestCase 1 : (SignUp)

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

IndustryAssist	Register Login

Sign Up
Create Your Account

Test

Employee

8394894845

Admin	⌄

testemp@test.com

••••••••••••••••

••••••••••••••••

Register

Already have an account? Sign In

Output :

IndustryAssist	Register Login

Waiting for Admin Response,then you can login

Sign Up

Status : **Passed**

TestCase 2 : (SignUp)

Input : 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)
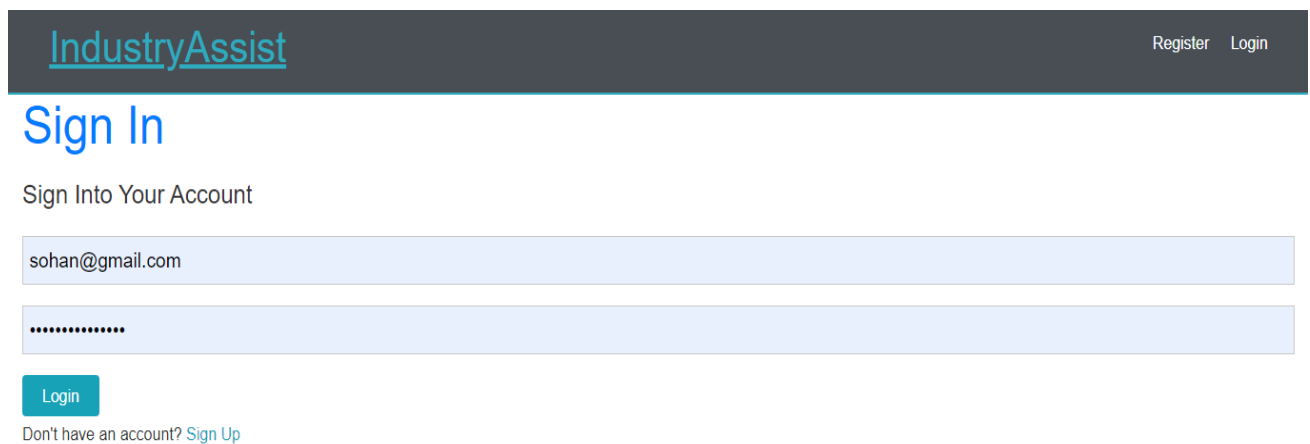
Output :

Passwords do not match

Sign Up

Create Your Account

Status : **Passed**

TestCase 3 : (LogIn)

Input : { Correct Email Id , correct Password }

IndustryAssist   Register   Login

Sign In

Sign Into Your Account

sohan@gmail.com

••••••••••••••

Login

Don't have an account? Sign Up

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

Output :

Status : **Passed**

TestCase 4 : (LogIn)

Input : { correct Email Id , incorrect Password } or { Incorrect Email Id , correct Password }
      or { incorrect Email Id , incorrect Password }

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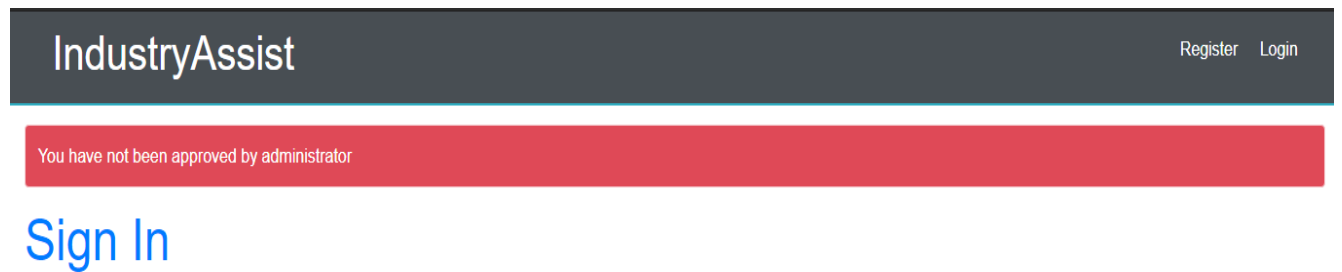
Output :

Status : **Passed**

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 :

Status : **Passed**

ADMIN INTERFACE

1. Approve new registered employee:

TestCase 1.1 :

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

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

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

Status : **Passed**

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 :

Product added successfully

Products

Product Name	Description	Category	Actions
Abba	Abamectin	Insecticide	Edit Delete
Counter	Terbufos	Insecticide	Edit Delete
Agricure	Carbonic acid and potassium salt	Fungicide	Edit Delete
Manco	Mancozeb 75% WP	Fungicide	Edit Delete

Status : Passed

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 :

Product updated successfully

Products

Product Name	Description	Category	Actions	
Abba	Abamectin	Insecticide	Edit	Delete
Counter	Terbufos	Insecticide	Edit	Delete
Agricure	Carbonic acid and potassium salt	Fungicide	Edit	Delete
Manco	Edited : Mancozeb 75% WP	Fungicide	Edit	Delete

Status : **Passed**

3. Add / Update Supplier :

TestCase 3.1 : (ADD Supplier)

Input :

Add Supplier

Supplier Name

Ramesh Tiwari

Email

Ramesh@gmail.com

Mobile No.

9876543445

Address

ME-037-350, VILL-Sojawalpur,

Landmark

Near Stadium

Pincode

611245

City

Pune

[Add Supplier]   [Cancel]

Expected Output : Supplier should be successfully Added.

Output :

New supplier added

Suppliers

Name	Mobile No.	Email	City	Actions
Ramesh Tiwari	9876543445	Ramesh@gmail.com	Pune	Edit Delete

[Add Supplier]

Status : **Passed**

 # TestCase 3.2 : (EDIT Supplier)

Input :

Suppliers

Ramesh Sharma

Email | Mobile No.

Ramesh123@gmail.com | 9876543445

Address

ME-037-350, VILL-Sojawalpur,

Landmark

Near Stadium

Pincode | City

611245 | Pune

Edit Supplier | Cancel

Expected Output : Supplier should be successfully updated.

Output :

supplier edited successfully

Suppliers

Name	Mobile No.	Email	City	Actions
Ramesh Sharma	9876543445	Ramesh123@gmail.com	Pune	Edit Delete
Srinath Srivastav	7903059504	sriNath@gmail.com	Bhopal	Edit Delete
Kirthana C. Vemula	9678453345	Kcvemula@gmail.com	west Uttam-nagar	Edit Delete

Status : **Passed**

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 |

Expected Output : Raw material should be successfully added.

Output :

| New Raw materials added |

Raw Materials

Name	Quantity	Recieving Date	Supplier	Actions
Ethylenediamine	35 kg	2021-04-20	Srinath Srivastav	Edit Delete

| Add RawMaterial |

Status : **Passed**

TestCase 4.2 : (EDIT Raw-Materials)

Input :

Raw Materials

Raw Material Name

Ethylenediamine-234

Quantity

37

Unit

kg

Supplier Name

Srinath Srivastav

Edit Raw Material

Expected Output : Raw material should be successfully updated.

Output :

Raw materials edited succesfully

Raw Materials

Name	Quantity	Recieving Date	Supplier	Actions	
Ethylenediamine-234	37 kg	2021-04-20	Srinath Srivastav	Edit	Delete
Carbon disulfide	47 kg	2021-04-20	Kirthana C. Vemula	Edit	Delete

Status : **Passed**

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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 :

New stock added

Stocks

Product Name	Packing	Quantity	Price	Last Update	Actions
Manco	1 kg	77	250	2021-04-20	Edit Delete

Add Stock

Status : **Passed**

TestCase 5.2 : (EDIT Stock)

Input :

Stocks

Select Product

Agricure

Select Packing

5

Quantity

45

Price

140

Edit Stock

Expected Output : Stock should be successfully updated.

Output :

Stocks edited succesfully

Stocks

Product Name	Packing	Quantity	Price	Last Update	Actions
Agricure	5 ltr	45	140	2021-04-20	Edit Delete

Status : **Passed**

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)

Order Confirmed !

Orders

| All | Pending | Confirmed | Dispatched |

Name	Order Date	Dispatch Date	Status	Action	#
Test User3	2021-04-20	Not Dispatched	Confirmed	Dispatch No Go	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

Status : **Passed**

 # TestCase 6.2 : (Dispatch order)

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

Orders

| All | Pending | Confirmed | Dispatched |

Name	Order Date	Dispatch Date	Status	Action	#
Test User3	2021-04-20	Not Dispatched	Confirmed	Dispatch No Go ←	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 change to dispatched.

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

Order Dispatched with dispatch num: 86745 !

Orders

| All | Pending | Confirmed | Dispatched |

Name	Order Date	Dispatch Date	Status	Action	#
Test User3	2021-04-20	2021-04-20	Dispatched	86745	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

Status : **Passed**

View Sales details

IndustryAssist

Dashboard   Logout

Welcome Sohan

Products

Employees

Customers

Stocks

Orders

Sales

Production

Suppliers

Raw Materials

Sales

Total Orders	Confirmed Orders	Dispatched Orders
14 View	3 View	4 View

Sales History

#	Product	Size	Quantity sold
#	Agricure	5 ltr	10 ltr
#	Manco	1 kg	23 kg
#	Counter	5 ltr	6 ltr

To be Dispatched

#	Product	Size	Quantity sold
#	Manco	1 kg	10 kg
#	Manco	500 g	7 kg
#	Agricure	500 g	6 kg

View Sales and Production details

IndustryAssist

Dashboard   Logout

Welcome Sohan

Products

Employees

Customers

Stocks

Orders

Sales

Production

Suppliers

Raw Materials

Production Details

Product	Packaging	Production	Date
Counter	5 ltr	154 Ltr	2021-04-20
Manco	1 kg	63 Kg	2021-04-20
Agricure	5 ltr	10 Ltr	2021-04-20

From

dd-mm-yyyy

To

dd-mm-yyyy

Search   Reset

20

View Customers details

View Employee details :

EMPLOYEE INTERFACE

1. Add / Update customer :

TestCase 1.1 : (Add new customer)
Input :

Add Customer

First Name
Test

Last Name
User2

Mobile Number
2334354587

Address
222 - A , xxc colony

Landmark
near dskdspl

City
Guwahati

Pincode
781015

Submit   Cancel

Expected Output : Customer Should be Successfully Added.

Output :

New Customer added

Customers

Name	Contact	City	Actions
Test User1	8347237823	Indore	Edit Delete
Test User2	2334354587	Guwahati	Edit Delete

Add Customer

Status : **Passed**

TestCase 1.2 : (Update/edit customer details)

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

After edit Click : (previously stored customer details)

First Name

Test

Last Name

User1

Mobile Number

9887367344

Address

1353 - A , xyz colony

Landmark

near lorem ipsum

City

Indore

Pincode

452009

Submit   Cancel

Upon Updating the desired fields :

First Name

Test

Last Name

User1edit

Mobile Number

9887367344

Address

1353 - A , xyz colony

Landmark

near lorem ipsum

City

Indore

Pincode

452009

Submit   Cancel

Output :

Name	Contact	City	Actions
Test User1edit	9887367344	Indore	Edit Delete
Test User2	2334354587	Guwahati	Edit Delete
Test User3	7873487343	Ujjain	Edit Delete

Customer profile edited successfully

Customers

Status : **Passed**

2. Place a new Order for a customer:

 # TestCase 2.1 :
Input :

Create Order

Product	Packing	Quantity
Abba	5 ltr	10
Agricure	5 ltr	10

Product

Choose...

Packing

Choose...

Quantity

0

Add Item

Select Customer

Test User3

Add order   Cancel

Expected Output : Order Should be Successfully Placed.

Output : (on clicking Add order)

> **Order added successfully**

Orders

All	Pending	Confirmed	Dispatched

Name	Order Date	Dispatch Date	Status	Action	#
Test User3	2021-04-20	Not Dispatched	**Pending**	Confirm	View
Test User2	2021-04-20	Not Dispatched	**Pending**	Confirm	View

Create 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 :

Payment added	

Payments

Customer Name	Date	Amount	Actions
Test User1	2021-04-15	Rs. 25000	Edit Delete

Add Payment

Status : **Passed**

4. Give feedback to the company :

 # TestCase 4 :
Input :

Add Feedback

Subject

Testing

Feedback

Testing succesfull

Submit   Cancel

Expected Output : Feedback Should be Successfully posted.

Output :

Feedback added succesfully	

Feedbacks

Employee Name	Subject	#	Actions
Rishabh Batti	Testing	View	Edit Delete

Add Feedback

Status : **Passed**

View his/her Profile

View customer's Profile