



# RSHOP

*Retail shopping and inventory management*

*Anil vishvkarma*

# About

The purpose of this web application is to provide web based goods shopping and inventory management which can enhance the speed of retail chaining. Application is implemented to learn and implement Angular 6 with Node JS in real world applications with best industry practices. Below are the technical specifications used in this application development –

1. Front End – Angular v6 .1.2 (Type Script v2.0)
2. Back End – Node JS v8.12
3. Template Engine – Material by Google
4. Git – Code repository
5. IDE – VS Code
6. MongoDB – Database storage
7. Deployment Tool – Bamboo
8. Cloud for Server and Client app deployment

Server and client apps are individually deployed on cloud which communicates bi-directional through REST invocation. MongoDB is used as data storage which is also deployed on cloud.

Functionality of the application is described below with screenshots. To use application without creating a new account below credentials can be used.

<https://r-shop-client-app.herokuapp.com>

User – [admin.123@gmail.com](mailto:admin.123@gmail.com)

Password – **admin123**

To log any query please write to **[anil.vish91@gmail.com](mailto:anil.vish91@gmail.com)**

*Note\* : As application is deployed over static cloud, please use public network which should not be behind any proxy else you may have some inconsistent behavior.*

# Registration

User can create his/her account by entering basic login details as shown below. Password should be of 8 characters minimum.

R SHOP

REGISTERLOGIN

USER REGISTRATION

First Name \*

my\_name

Last Name \*

my\_last\_name

Email \*

my\_email@gmail.com

Password \*

\*\*\*\*\*

SUBMIT

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# Login

User can login to his/her account by entering credentials he/she used to create account. If not you can use default credentials provided above.

R SHOP

REGISTERLOGIN

LOGIN

Enter Email \*

my\_email@gmail.com

Enter Password \*

\*\*\*\*\*

Forgot Password

LOGIN

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## Products

Products are the basic units of this application on which all other operations will be carried on. Products can be added, modified or deleted in this module. Which shows a complete list of products with all related details. A PDF list can also be downloaded from Download button given. Add is used to add new product.

Welcome, Anil

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports

Feedback

Settings

Add

Download

Filter

Product Name	Product Brand	Product Category	Product Barcode	Product Price	Actions
TShirt	Puma	Fashion	TS123	650	<div><div></div><div></div></div>
Pen	Parker	Stationary	PE123	250	<div><div></div><div></div></div>
Iron	Phillips	Electronics	IR123	800	<div><div></div><div></div></div>
Bag	Zara	Fashion	BG123	500	<div><div></div><div></div></div>
Bottle	Tupperware	Appliances	BT123	250	<div><div></div><div></div></div>

Items per page: 5

1 - 5 of 8

## Suppliers

Suppliers are the suppliers of goods/products which can be further utilizes in the chain. Suppliers can be added, modified or deleted in this module. Which shows a complete list of suppliers with all related details. A PDF list can also be downloaded from Download button given. Add is used to add new supplier.

Welcome, Anil

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports

Feedback

Settings

Add

Download

Filter

Supplier Name	Supplier Email	Supplier Phone	Supplier City	Actions
Tyco International	Kk@gmail.com	09691095709	Indore	<div><div></div><div></div></div>
DMart Pvt. Ltd.	avish@gmail.com	9713448164	Indore	<div><div></div><div></div></div>
Balaji Enterprises	balaji@gmail.com	020 6747 5479	Indore	<div><div></div><div></div></div>
Dilip Buildcon Ltd.	dilip@gmail.com	9876541234	Indore	<div><div></div><div></div></div>

Items per page: 5

1 - 4 of 4

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## Purchases

User needs to create some purchase orders to receive products from suppliers to grow the chain of this application. Once the order is placed respective supplier will be notified and he/she is responsible to deliver goods within committed date. A PDF list can also be downloaded from Download button given. Add is used to add new purchase order. To download a single purchase order simply click on the PO row.

Welcome, Anil

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports



















Feedback

Settings

Add

Download

Filter

Order Number	Order Status	Supplier	Quantity Ordered	Billing Amount	Actions
1540395110694	Completed	Avish Mart	25	45000	 
1540385447098	Completed	Avish Mart	100	102500	 
1540393806573	Completed	Khanak Enter.	500	512500	 
1540397427345	Completed	Khanak Enter.	150	270000	 
1540466423532	Completed	Khanak Enter.	20	20500	 
1540467248819	Completed	Khanak Enter.	20	20500	 
1540466299699	Completed	Avish Mart	80	144000	 
1540490398294	Completed	Avish Mart	6	4150	 
1540534616807	Completed	DMart Pvt. Ltd.	80	43750	 

Items per page 25

1 - 15 of 15

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## Stocks

All selling out products will displayed and sell put from stocks only. Once the purchase order placed will completed, all order/received products will be entered into stocks. A PDF list can also be downloaded from Download button given. By default 10% will be the profit margin in every product added which this can be modified later at any point of time.

Welcome, Anil

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports

Feedback

Settings

R SHOP

LOGOUT

Download

Filter

Product	Brand	Quantity ↓	Status	Selling Price	Margin Percent	Actions
Cap	Addidas	174	Inactive	195	30	
Soap	Dove	171	Inactive	27.5	10	
Bottle	Tupperware	120	Inactive	300	20	
Iron	Philips	109	Inactive	880	10	
Bag	Zara	106	Inactive	550	10	
Pen	Parker	100	Inactive	275	10	
Mug	Cello	81	Inactive	110	10	
Chair	Neelkamal	72	Inactive	1440	20	
TShirt	Puma	70	Inactive	715	10	

Items per page: 100

1 - 12 of 12

# Customers

Customers are the consumers of the goods which are sold out, application can be used to maintain the customers in order to track the frequency of same customers. This data can be used for data analysis later on. A PDF list can be downloaded from Download button given. Add is used to add new customer.

Welcome, Anil

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports

Feedback

Settings

Add

Download

Filter

Customer Name	Customer Email	Customer Phone	Customer City
Rakesh Bansal	rakesh@gmail.com	9713448164	Indore
Narendra Modi	narendra@gmail.com	2389457916	Indore
Rahul Gandhi	rahul@gmail.com	9878436152	Indore
Manoj	a@gmail	9988776655	Indore
Kailash Thakur		9856231578	

Items per page: 51 - 5 of 26<>

# Sales

This is the most important module of the application which sold out the goods available in stocks. Whenever sales open customer details should be there, then goods can be scanned based on barcode and same will be added to list automatically. Once all items added, net amount will be calculated after deduction of all discounts. Once payment will be made receipt will be printed. Entire sales list can be downloaded from Download button, New bill can be created by New Bill button. To download a single Sale record click on PDF icon.

Welcome, Anil

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports










Feedback

Settings

New Bill

Download

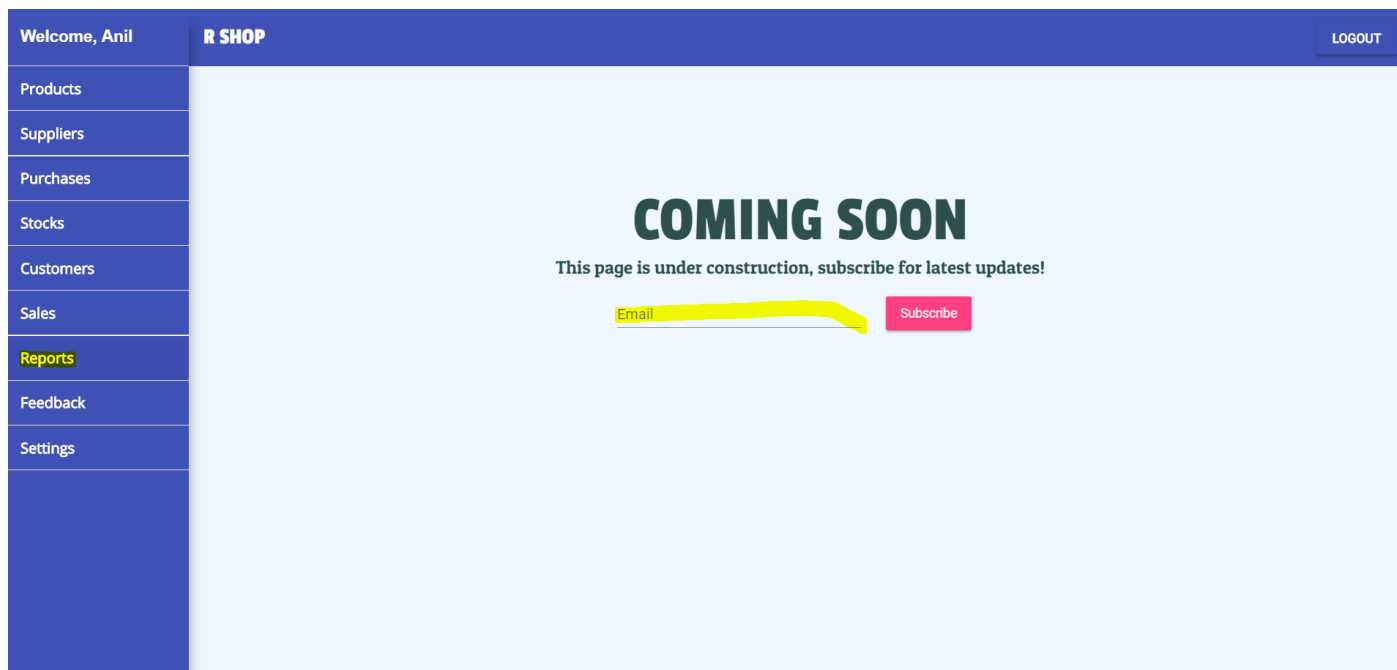
Filter

Bill Number	Quantity	Bill Amount	Discount	Net Amount	Customer Phone	Action
1541762539544	8	4702.5	5	4468	9713448164	
1541763154831	2	2640	5	2508	9713448164	
1541763238281	5	9900	5	9405	9713448164	
1541763582467	10	5280	5	5016	9479593995	
1541764982882	2	2640	5	2508	9713448164	
1541779264387	5	5580	5	5301	9713448164	
1541779264387	5	5580	5	5301	9713448164	
1541779470602	8	6435	5	6114	9713448164	
1541779560612	11	7370	5	7002	9713448164	

Items per page: 251 - 25 of 96<>

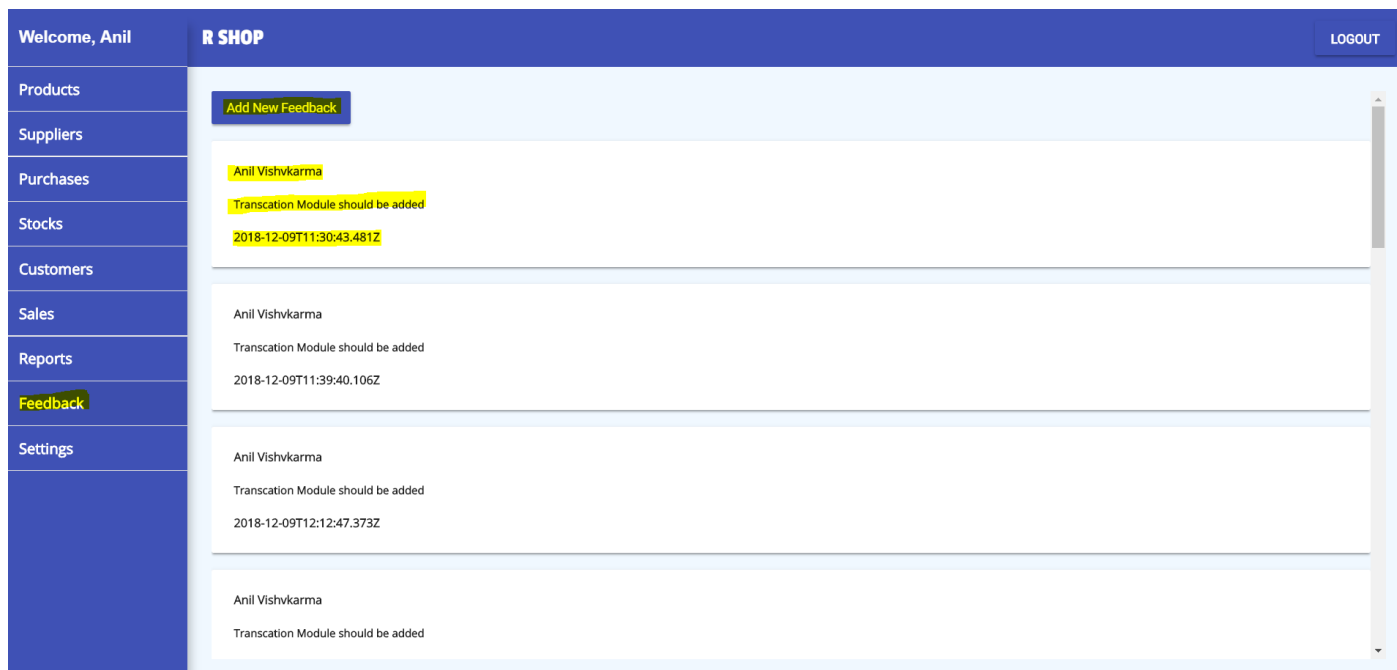
# Reports

This module will be fully dedicated to generate all kind of reports based on criteria provided by user. The implementation of this module currently is in process.



# Feedback

User of this application can write feedback of this application, they can also provide deficiencies, any suggestions or complaint about any module of this application.



# Settings

This is used to modify/manage user details like personal details, contact details, address details or to change login password. Image uploading will be added soon.

Welcome, Admin

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks


Customers

Sales

Reports

Feedback

Settings



ADMIN 123

admin.123@gmail.com

020 6747 5945

General Information

Address

Change Password

First Name

Admin

Last Name

123

Email

admin.123@gmail.com

Phone

020 6747 5945

Edit

Save

# Logout

Click on the button available on toolbar to logout of the application.

Welcome, Admin

R SHOP

LOGOUT

Products

Suppliers

Purchases

Stocks

Customers

Sales

Reports











Feedback

Settings

Add

Download

Filter

Product Name	Product Brand	Product Category	Product Barcode	Product Price	Actions
TShirt	Puma	Fashion	TS123	650	 
Pen	Parker	Stationary	PE123	250	 
Iron	Philips	Electronics	IR123	800	 
Bag	Zara	Fashion	BG123	500	 
Bottle	Tupperware	Appliances	BT123	250	 

Items per page: 5

1 - 5 of 9

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## Additional Information

1. Application is entirely design on Micro service architecture where REST api communication is used over HTTP 1.0 protocol. Later on multiple micro services can be added to same application which are not necessarily to design in the same technology.
2. Application uses 16-bit encrypted password storage based on SHA encrypted methodology.
3. Application authentication module uses 16-bit user token which will be generated based on successful login and will be valid for next one hour.
4. Application is responsive in nature by default.
5. For any clarification or query please write to [anil.vish91@gmail.com](mailto:anil.vish91@gmail.com)

Thanks