FedNXT

PARADIGM
SNU

TEAM C.O.D.E

Prospects of **FedNXT**

Problem Statement

- To create a website or mobile application that becomes a one-stop solution for handling warehousing and supply chain management problems of the various parties involved in international shipping.

- The proposed business model should predict the pricing strategy of the complete shipping model based on specific parameters such as category of goods, quantity of goods, distance travelled by freight, etc., that affect and relate to the shipment of the product.

- It should fulfill needs of B2B sector.

- FedNXT is one-stop solution to the supply chain and warehouse management needs of B2B sectors with additional features of giving on demand estimate of freight shipping charges using an API exposing the underlying machine learning model.

- allows you to manage your inventory, sales, purchases, customers, invoices, take payments and much more.

- Update your stock information, make purchases and view sales information from anywhere anytime.

- For products, Add, edit, delete & view products, Print Barcodes, Import by CSV

- Transfer products to warehouses, price estimation for freights using ML model

Why **FedNXT?**

CRUDE

FedNXT can perform crude operations of
- **Add**
- **Delete**
- **Update**
- **Retrieve**
- **Enlist**

ML Model

Transfer products to warehouses, price estimation for freights using ML model
- **API calls**
- **Price Estimation**
- **Scalable**

Evaluate

Overview
- **Product quantity & expiry alerts**
- **Daily, monthly custom sales, pay profit/loss purchase report**
- **best-seller reports**

Inventory

For products, you have Standard Product, Digital Product, Product Category with operation of
- **Add, edit, delete & view**
- **Print Barcodes**
- **Import by CSV**

Users

Customers can see status of their shipments
- **get updates on their status**
- **create unique shipment ids**
- **Track shipment°**

FedNXT

Dashboard
- Overview & yearly Sales Chart
- 5 Latest Sales
- Top 5 best selling products monthly & yearly

Products
- Standard Product, Digital Product
- Product Category
- Add, edit, delete & view products
- Print Barcodes
- Import by CSV

Sales
- Add, edit, delete & view sales
- Payments (Multiple add, edit, delete)
- Receive Payments online with Stripe, Paypal
- Return Sales
- Add, edit, delete & view delivery

Purchases
- Add, edit, delete & view purchases
- Payments (Multiple add, edit, delete)
- Import by CSV

FedNXT

Transfers
- Transfer products to warehouses
- Add, edit, delete & view transfers with status
- Import by CSV

People
- Add, edit, delete & view users, assign roles
- Add, edit, delete & view customers, billers, suppliers
- Import customers, billers, suppliers by CSV

Reports
- Overview & warehouse stock charts
- Product quantity & expiry alerts
- Daily, monthly custom sales, payments, profit/loss purchase report
- Customers, supplier, due, best-seller reports

UI/UX
- User oriented design, touchscreen friendly
- Suspend sales, print order & bill
- Can show bill screen to customers
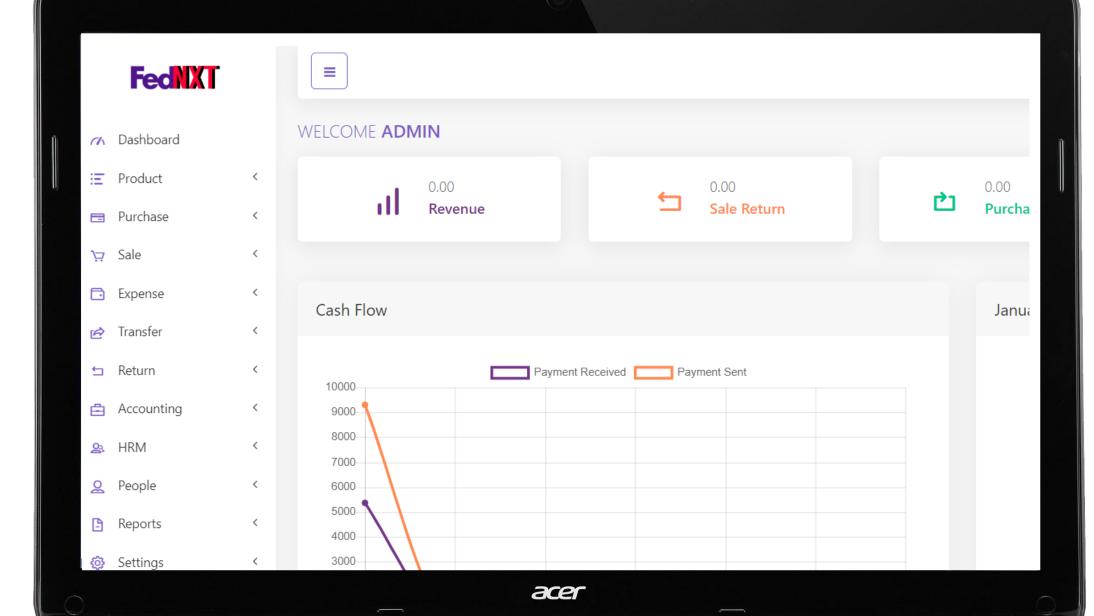- Add sale, payment & staff notes

FedNXT

UserName

admin

Password

•••••

LogIn

Forgot Password?

Do not have an account?

Register

FedNXT

WELCOME ADMIN

	0.00 **Revenue**		0.00 **Sale Return**		0.00 **Purcha**

Dashboard
Product
Purchase
Sale
Expense
Transfer
Return
Accounting
HRM
People
Reports
Settings

Cash Flow

Janua

Payment Received   Payment Sent

```
10000
 9000
 8000
 7000
 6000
 5000
 4000
 3000
```

Shipping Details

From Warehouse ⌄

To Warehouse ⌄

select category ⌄

Quantity

Predict Shipping Cost

Predicted Shipping Cost

Predicted Shipping Cost

Add Transfer

*The field labels marked with * are required input fields.*

Date

Choose date

From Warehouse *

Select warehouse...

To Warehouse *

Select warehouse...

Status

Completed

Select Product

Please type product code and select...

Order Table *

Name	Code	Batch No	Quantity	Net Unit Cost	Tax	SubTotal	🗑
Total			**0**		**0.00**	**0.00**	🗑

Summary Report

Choose Your Date

| 2023-01-01 To 2023-01-28 | Submit |

♥ Purchase

Amount	0.00
Purchase	0
Paid	0.00
Tax	0.00
Discount	0.00

🛒 Sale

Amount	0.00
Sale	0
Paid	0.00
Tax	0.00
Discount	0.00

⤭ Sale Return

Amount	0.00
Return	0
Tax	0.00

⤭ Purchase Return

Amount	0.
Return	
Tax	0.

🖾 Profit / Loss

Sale	0.00
Product Cost	0.00

🖾 Profit / Loss

Sale	0.00
Product Cost	0.00

🖾 Net Profit / Net Loss

0.00

(Sale 0.00 - Tax 0.00) - (Product Cost 0.00 - Ta

Stage 1
Planning

- We started with doing a quick case study of Amazon Warehousing System

- We outlined the features need in a warehousing software

- Prepared the wireframe diagrams, workflow charts and website layout

- Created a workspace

Stage 2
Analysis

- We divided the workflow into two pipelines

- First was to develop the Website

- We analyzed the tech requirements and worked accordingly

- Parallelly we work on training the machine learning model

Stage 3
design

- We designed the basic database schemas

- Defined the access routes

- Worked on making navigational flow of the website

- We continued with Regression Model

Stage 4 Implementation

- We started with some boilerplate and finalized the schema

- Started preparing the database

- We completed the basic layout of website and worked on implementing various tools and measures

Stage 6 design

- We started testing with dataset given to us.

- We got issues in handling 80,000+ data entries

- Still working on…..

Technology Stack Used

- Android-JAVA
- PHP
- One Signal for push notifications
- Firebase login
- MySQL
- Cpanel- Dashboard
- Domain Provider- freenom

- Python
- Flask
- Postman
- AWS Lambda
- Machine Learning

Team Roles

Aman Gupta
- **PHP/Backend**

Shashank Kumar
- **Flask/ML**

Shubhi Singh
- **Database/cpanel**

Regards,
Team C.O.D.E