

Hiring Task Documentation

Project directory Structure:

```
Base_dir
|-backend
|   |-backend      - Contains Project Settings
|   |- apis        - Contains APIs
|
|-frontend
|   |-src
|   |   |-app
|   |   |   |- page.tsx - Contains home page
|   |   |   |- crud     - Contains Crud Page
|   |   |   |- Component - Contains components
```

Backend:

Models:

1. Product: Defined in `.\backend\apis\models.py`

APIs:

1. Get Products API

<u>URL</u>	http://127.0.0.1:8000/getProducts/
<u>File</u>	.\backend\apis\views.py
<u>Request Type</u>	GET
<u>Body</u>	-
<u>Input parameters</u>	-
<u>Response</u>	[{Product1 details},{Product2 details},....]
<u>Response parameters</u>	Each Product contains: id, name, company, price, quantity, description

2. New Product API

<u>URL</u>	http://127.0.0.1:8000/newProduct/
<u>File</u>	.\backend\apis\views.py
<u>Request Type</u>	POST
<u>Body</u>	{ "name": string "company": string "description": string "price": int "quantity": string }
<u>Input parameters</u>	<ul style="list-style-type: none">• Name – product name

	<ul style="list-style-type: none"> • Company- product company name • Description- product description • Price – product price • Quantity- Product quantity(with units- kg, L, etc.)
Response	[{Product1 details},{Product2 details},....]
Response parameters	Updated products list

3. Delete Product API

<u>URL</u>	http://127.0.0.1:8000/deleteProduct/
<u>File</u>	.\backend\apis\views.py
<u>Request Type</u>	GET
<u>Body</u>	Id - int
Input parameters	id – ID of product (Database primary key)
Response	[{Product1 details},{Product2 details},....]
Response parameters	Updated products list

4. Update Product API

<u>URL</u>	http://127.0.0.1:8000/updateProduct/
<u>File</u>	.\backend\apis\views.py
<u>Request Type</u>	POST
<u>Body</u>	<pre>{ "id": int "name": string "company": string "description": string "price": int "quantity": string }</pre>
Input parameters	<ul style="list-style-type: none"> • Id – ID of product to be updated • Name – Updated product name • Company- Updated product company name • Description- Updated product description • Price – Updated product price • Quantity- Updated Product quantity(with units- kg, L, etc.)
Response	[{Product1 details},{Product2 details},....]
Response parameters	Updated products list

Frontend:

Pages:

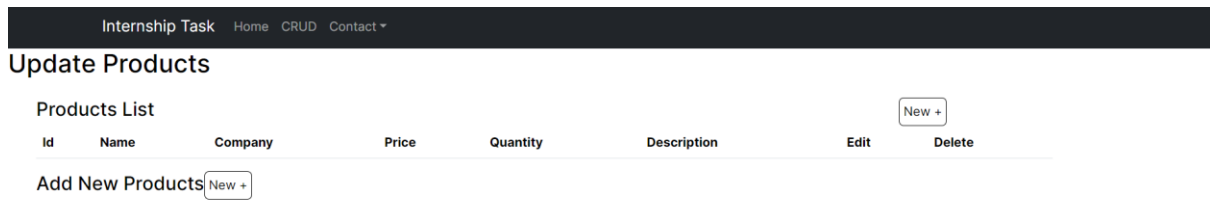
1. Home: Landing Page
 - a. Description: A page showing cards for all the existing products. If no products exist automatically redirects to crud page to add new product.
 - b. Functions
 - i. fetchProducts(): get a list of all products in database using 1. Get Products API
2. CRUD: Page for CRUD operations
 - a. Functions
 - i. handleNewModalClose(): close modal for creating new products
 - ii. handleNewModalShow(): open modal for creating new products
 - iii. handleUpdateModalClose(): close modal for updating products
 - iv. handleUpdateModalShow(item): open modal for updating products
 1. item – Item interface object containing all item details to populate modal
 - v. handleNewFormChange(): update the state of form data for creating new products
 - vi. handleUpdateFormChange(): update the state of form data for updating products
 - vii. handleNewFormSubmit(): Make a post request to 2. New product API
 - viii. handleUpdateFormSubmit(): Make a post request to 4. Update product API
 - ix. deleteProduct(id): Make a post request to 3. Delete Products API
 1. id: Id of product to delete

Components

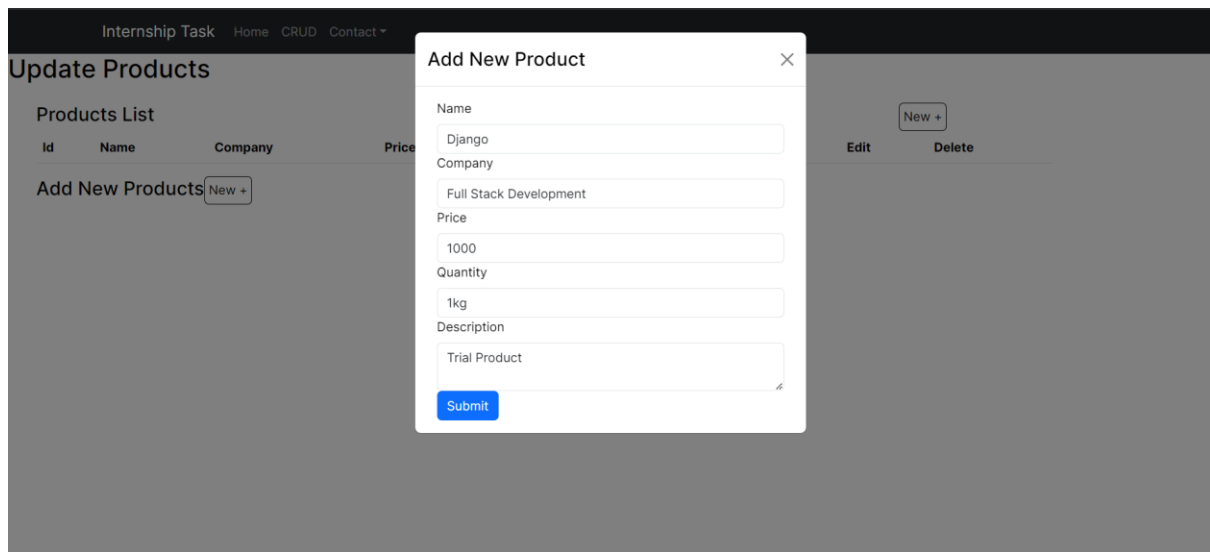
1. navBar: Top Navigation Bar
 - a. Called in –
 - i. app/page.tsx
 - ii. app/crud/page.tsx
2. itemCard: Cards to display items in home page
 - a. Called in: app/page.tsx

ScreenShots

CRUD Page with no Products



New Products Modal



CRUD Page with products

Internship Task

Home

CRUD

Contact

Update Products

Products List

New +

Id	Name	Company	Price	Quantity	Description	Edit	Delete
2	Django	Full Stack Development	1000	1kg	Trial Product	Edit	Delete
3	trial 2	company2	200	1234	Trial 2	Edit	Delete

Edit Product Modal

Internship Task

Home

CRUD

Contact

Update Products

Products List

New +

Id	Name	Company	Price	Quantity	Description	Edit	Delete
2	Django	Full Stack Development				Edit	Delete
3	trial 2	company2				Edit	Delete

Edit Product

Name

Django

Company

Full Stack Development Project

Price

100

Quantity

1L

Description

Trial Product updated

Submit

Home Page with a Product:

Internship Task

Home

CRUD

Contact

company2 trial 2

Trial 2

Qty: 1234

200Rs