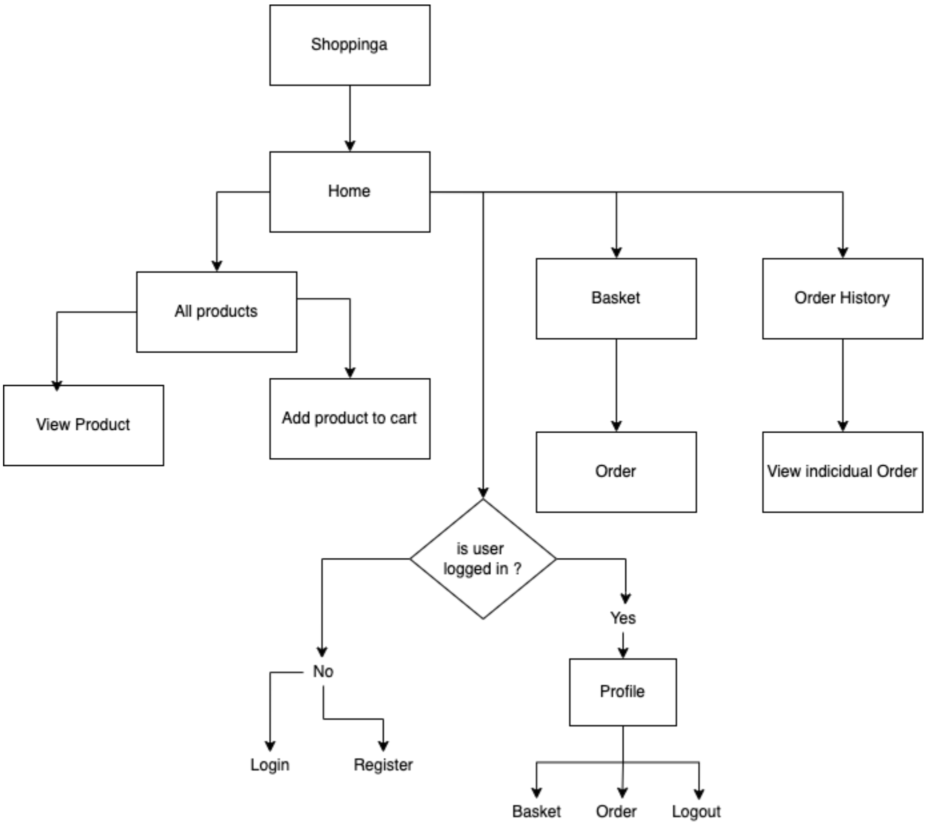
shoppinga

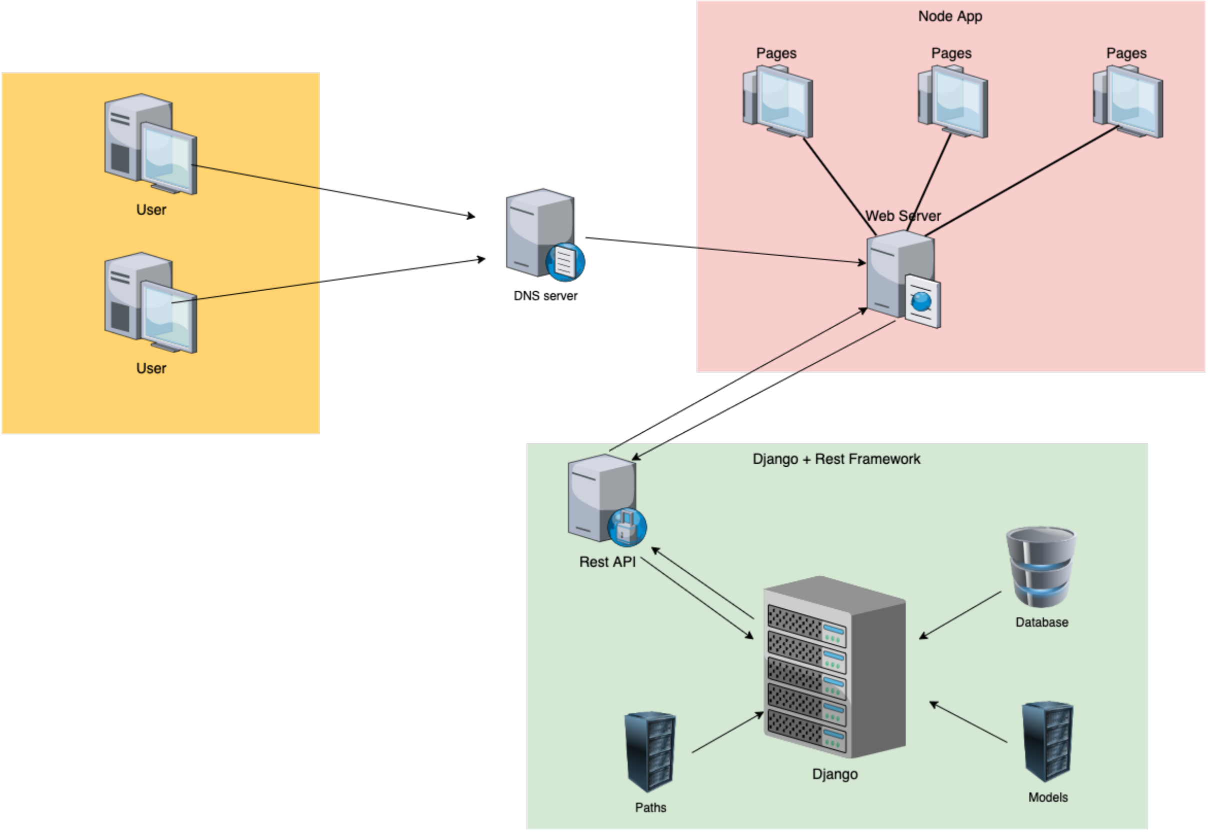
**Shoppinga** is a shop that sells iPhone cases, this shop sells iPhone cases for iPhones 7/8, 7 plus/8 plus, XR, XS, XS Max, 11, 11 Pro Max, 12, 12 Pro Max, 13, 13 Pro Max. This shop is aimed at everyone that owns an iPhone and that it is looking to buy a new case, due to the big age gaps we tried to provide an easy UX (user experience) while trying to keep a good UI (user interface).

# Sitemap



This sitemap shows the structure of the node website, as we can see from the home page we can access all pages by clicking links.  When we get the main page we are shown the all the products, and from there we can view each product individually and get more info about that product, once we have items in the basket we can go to the basket, add items from then and to remove from there. When we are happy, we can place an order by filling out the form. Once we are done, we place an order and if everything goes right then we will be presented with a order complete screen. If we want, we can then see our order history, and see each order individually.

## Architecture Diagram



This diagram shows how all these components are connected.
Starting from the backend, the database sends its information to Django, Django uses the models to then manage the data. Rest API uses the Django serializers to get that data from Django and turn it into JSON to be able to send it to the web server.

The node server is where we get our requests made by the users, the webserver then send the user to a page where the HTML/CSS/JS is loaded. Then each page may need to get information from the backend, and this uses the Rest API, this makes a GET or a POST request and the web server asks the Rest API for information, this information is then received in the JavaScript where we then manage it and display it to the user.

# API Endpoints

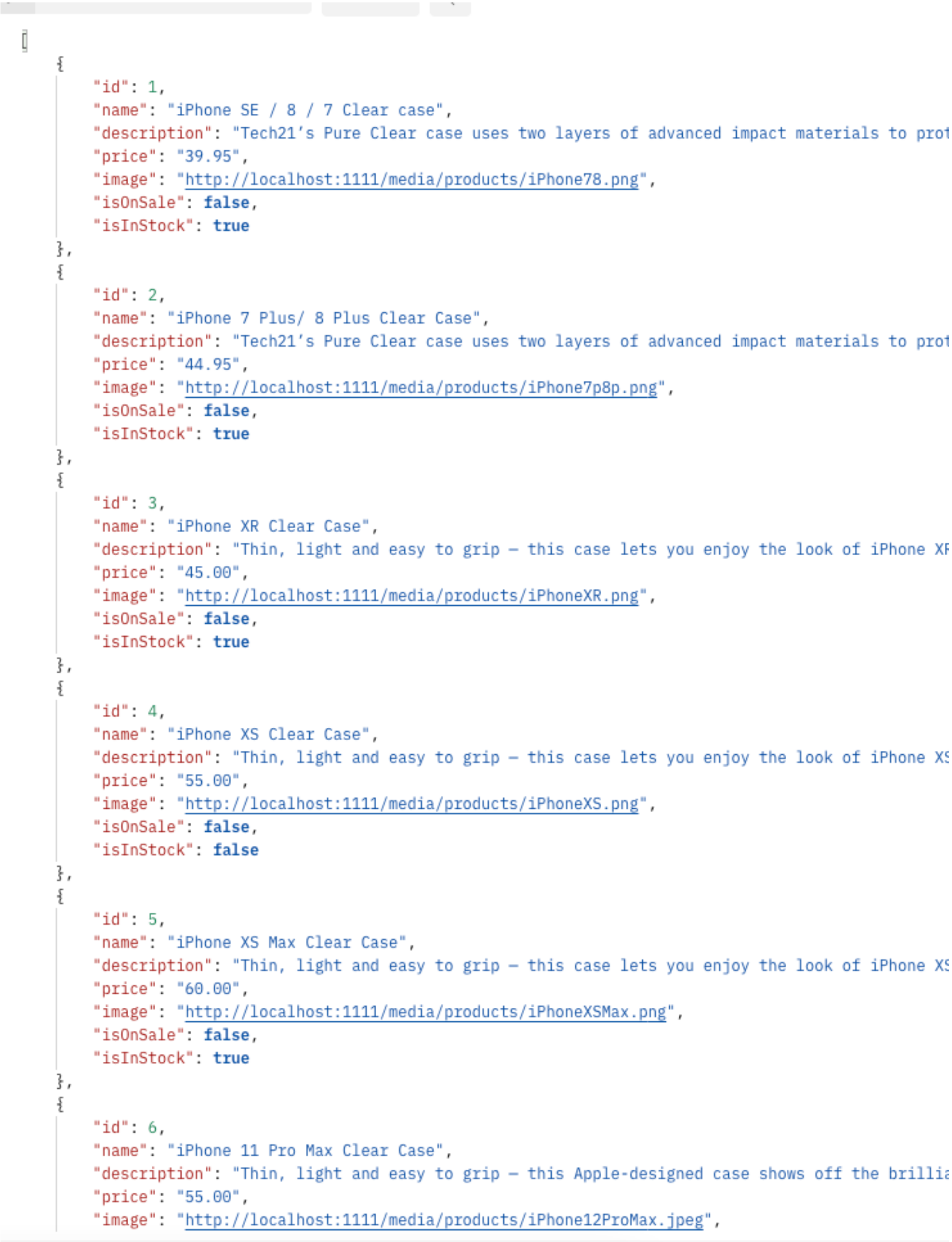
1. Products

Link: http://localhost:1111/api/products/

**Inputs**

No inputs

**Output**



```
[
    {
        "id": 1,
        "name": "iPhone SE / 8 / 7 Clear case",
        "description": "Tech21's Pure Clear case uses two layers of advanced impact materials to prot
        "price": "39.95",
        "image": "http://localhost:1111/media/products/iPhone78.png",
        "isOnSale": false,
        "isInStock": true
    },
    {
        "id": 2,
        "name": "iPhone 7 Plus/ 8 Plus Clear Case",
        "description": "Tech21's Pure Clear case uses two layers of advanced impact materials to prot
        "price": "44.95",
        "image": "http://localhost:1111/media/products/iPhone7p8p.png",
        "isOnSale": false,
        "isInStock": true
    },
    {
        "id": 3,
        "name": "iPhone XR Clear Case",
        "description": "Thin, light and easy to grip – this case lets you enjoy the look of iPhone XR
        "price": "45.00",
        "image": "http://localhost:1111/media/products/iPhoneXR.png",
        "isOnSale": false,
        "isInStock": true
    },
    {
        "id": 4,
        "name": "iPhone XS Clear Case",
        "description": "Thin, light and easy to grip – this case lets you enjoy the look of iPhone XS
        "price": "55.00",
        "image": "http://localhost:1111/media/products/iPhoneXS.png",
        "isOnSale": false,
        "isInStock": false
    },
    {
        "id": 5,
        "name": "iPhone XS Max Clear Case",
        "description": "Thin, light and easy to grip – this case lets you enjoy the look of iPhone XS
        "price": "60.00",
        "image": "http://localhost:1111/media/products/iPhoneXSMax.png",
        "isOnSale": false,
        "isInStock": true
    },
    {
        "id": 6,
        "name": "iPhone 11 Pro Max Clear Case",
        "description": "Thin, light and easy to grip – this Apple-designed case shows off the brillia
        "price": "55.00",
        "image": "http://localhost:1111/media/products/iPhone12ProMax.jpeg",
```

These endpoint gets all the products from the database, getting all its information.

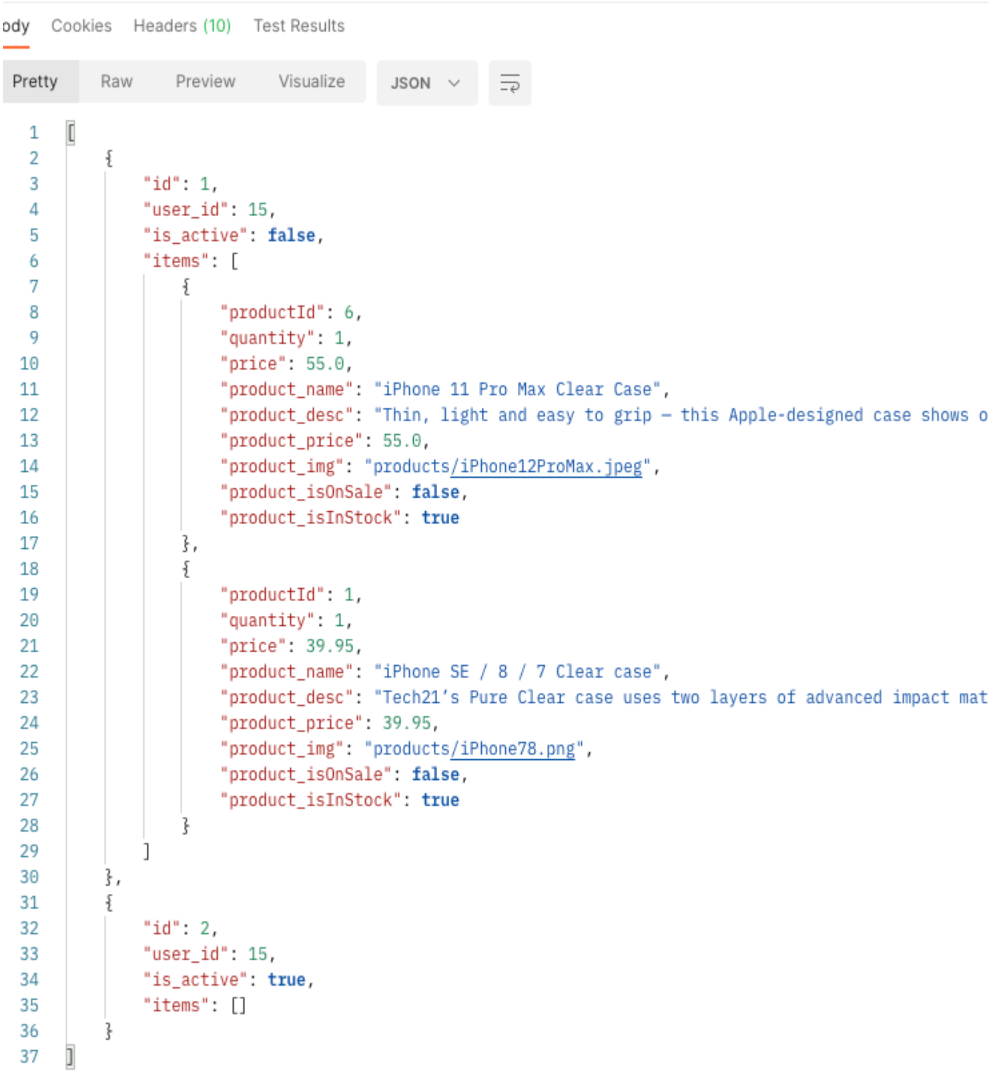
2. Basket

Link: http://localhost:1111/api/basket

**Inputs**

No inputs

**Output**



```
[
    {
        "id": 1,
        "user_id": 15,
        "is_active": false,
        "items": [
            {
                "productId": 6,
                "quantity": 1,
                "price": 55.0,
                "product_name": "iPhone 11 Pro Max Clear Case",
                "product_desc": "Thin, light and easy to grip – this Apple-designed case shows o
                "product_price": 55.0,
                "product_img": "products/iPhone12ProMax.jpeg",
                "product_isOnSale": false,
                "product_isInStock": true
            },
            {
                "productId": 1,
                "quantity": 1,
                "price": 39.95,
                "product_name": "iPhone SE / 8 / 7 Clear case",
                "product_desc": "Tech21's Pure Clear case uses two layers of advanced impact mat
                "product_price": 39.95,
                "product_img": "products/iPhone78.png",
                "product_isOnSale": false,
                "product_isInStock": true
            }
        ]
    },
    {
        "id": 2,
        "user_id": 15,
        "is_active": true,
        "items": []
    }
]
```

These endpoint gets all the baskets for the user, showing what items where bought and we can see all the product information.

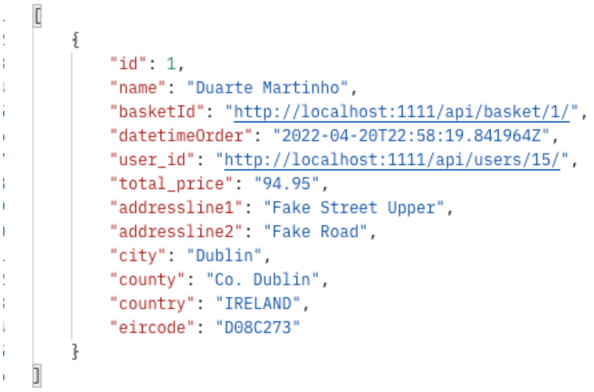
3. Orders

Link: http://localhost:1111/api/order/

**Inputs**

No inputs

**Output**



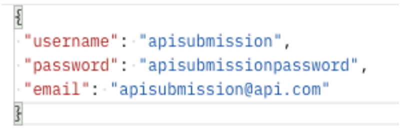
```
[
    {
        "id": 1,
        "name": "Duarte Martinho",
        "basketId": "http://localhost:1111/api/basket/1/",
        "datetimeOrder": "2022-04-20T22:58:19.841964Z",
        "user_id": "http://localhost:1111/api/users/15/",
        "total_price": "94.95",
        "addressline1": "Fake Street Upper",
        "addressline2": "Fake Road",
        "city": "Dublin",
        "county": "Co. Dublin",
        "country": "IRELAND",
        "eircode": "D08C273"
    }
]
```

This endpoint gets all the users orders/previous orders

4. Create User

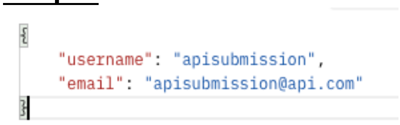
Link: http://localhost:1111/apiregister/

**Inputs**



```
{
 "username": "apisubmission",
 "password": "apisubmissionpassword",
 "email": "apisubmission@api.com"
}
```

**Output**



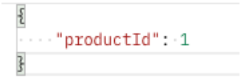
```
{
    "username": "apisubmission",
    "email": "apisubmission@api.com"
}
```

This endpoint will create the given user and output the user’s username and email, to represent that you created it.

5. Add to Basket

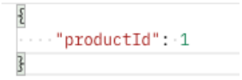
Link: http://localhost:1111/apiadd/

**Inputs**



```
{
    "productId": 1
}
```

**Output**



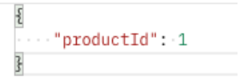
```
{
    "productId": 1
}
```

This endpoint will add to basket the productid given and will return the same productid if it is successfully added.

### 6. Remove from Basket

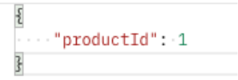
Link: http://localhost:1111/apiremove/

**Inputs**



```
{
    "productId": 1
}
```

**Output**



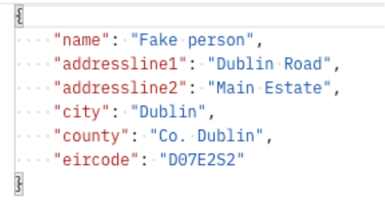
```
{
    "productId": 1
}
```

This endpoint will remove from basket if the productid given and will return the same productid if it is successfully removed.

### 7. Checkout

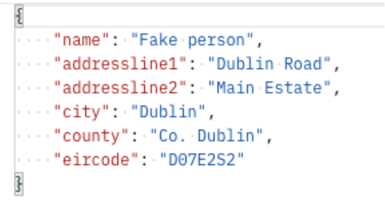
Link: http://localhost:1111/apicheckout/

**Inputs**



```
{
    "name": "Fake person",
    "addressline1": "Dublin Road",
    "addressline2": "Main Estate",
    "city": "Dublin",
    "county": "Co. Dublin",
    "eircode": "D07E2S2"
}
```

**Output**



```
{
    "name": "Fake person",
    "addressline1": "Dublin Road",
    "addressline2": "Main Estate",
    "city": "Dublin",
    "county": "Co. Dublin",
    "eircode": "D07E2S2"
}
```

This endpoint will checkout an order, so this means that it will look at the basket and place an order. This API takes in a series of inputs and outputs the exact same inputs if it successfully placed an order.

Video link: https://youtu.be/53ESQY5KOTQ
Gitlab: https://gitlab.computing.dcu.ie/martid46/2022-ca298-duarteshop