Logo

Description automatically generated with medium confidence

**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**

Diagram

Description automatically generated

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**

A picture containing text, electronics, computer, screenshot

Description automatically generated

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**

Text

Description automatically generated

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

1. Basket

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

**Inputs**

No inputs

**Output**

Timeline

Description automatically generated

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**

Text

Description automatically generated

This endpoint gets all the users orders/previous orders

4. Create User

Link: <http://localhost:1111/apiregister/>

**Inputs**

Graphical user interface, text, application

Description automatically generated

**Output**

**Application

Description automatically generated with low confidence**

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**

Graphical user interface, application

Description automatically generated with medium confidence

**Output**

**Graphical user interface, application

Description automatically generated with medium confidence**

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**

Graphical user interface, application

Description automatically generated with medium confidence

**Output**

**Graphical user interface, application

Description automatically generated with medium confidence**

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**

**Graphical user interface, text, application, Word

Description automatically generated**

**Output**

Graphical user interface, text, application, Word

Description automatically generated

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