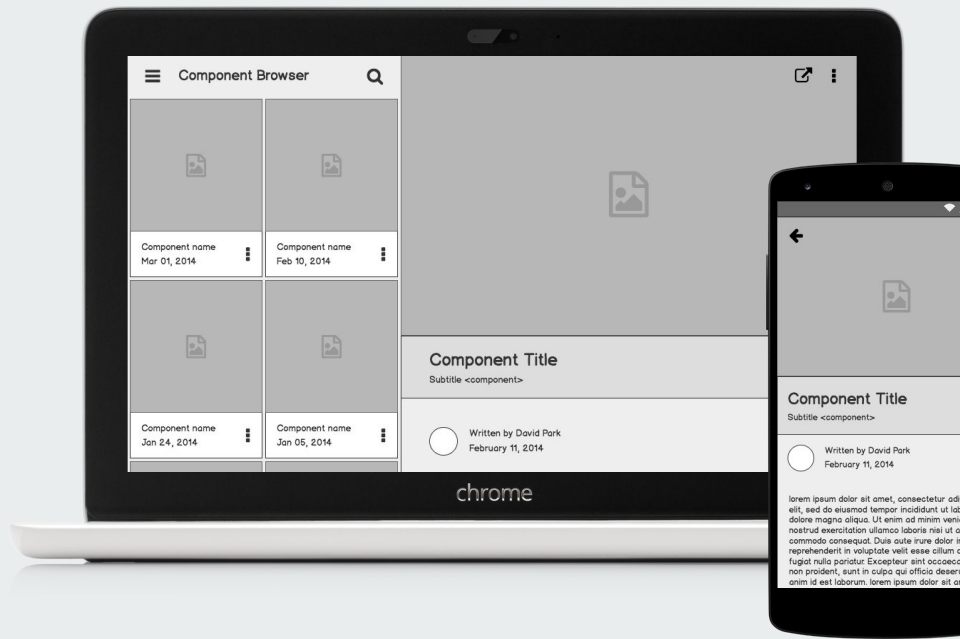


Building a backend API for an Ecommerce mobile app



Outline

The Problem

Solution Proposal

Wireframes

Next Steps

The Problem

Consider a scenario where an e-commerce company wants to develop a mobile application to enhance user experience and expand its reach to mobile users. The e-commerce company has tasked you to develop a set of APIs to serve as the backend for the mobile application. These APIs enable the mobile app to communicate with the server, retrieve product information, process orders, handle payments securely, and update user account details. Stack is Python.



PROBLEM STATEMENT

- List out all of the APIs that you think would be required in this scenario
- Develop and write the code for 3 of the APIs
- Write a code to test that the code written

List of required APIs

2

Product Catalog

- Retrieve all products
- Retrieve a single product by ID
- Search products by name/description

List of required APIs

1

User Authentication and Authorization

- Register a new user
- User login(consider sign in option with google)
- User logout

List of required APIs

3

Shopping Cart

- Add item to cart
- Remove item from cart
- Update item quantity in cart(plus)
- Update item quantity in cart(minus)
- View cart



List of required APIs

4

Orders

- Place an order
- View order details
- List all orders for a user

List of required APIs

5

Payments

- Initiate payment process
- Validate payment status
(success/failure)

List of required APIs

6

User Account

- Update user profile information
- Change password
- Retrieve user profile information

List of required APIs

User Authentication and Authorization

Register a new user

User login(consider sign in option with google)

User logout (optional, if using token-based authentication)

