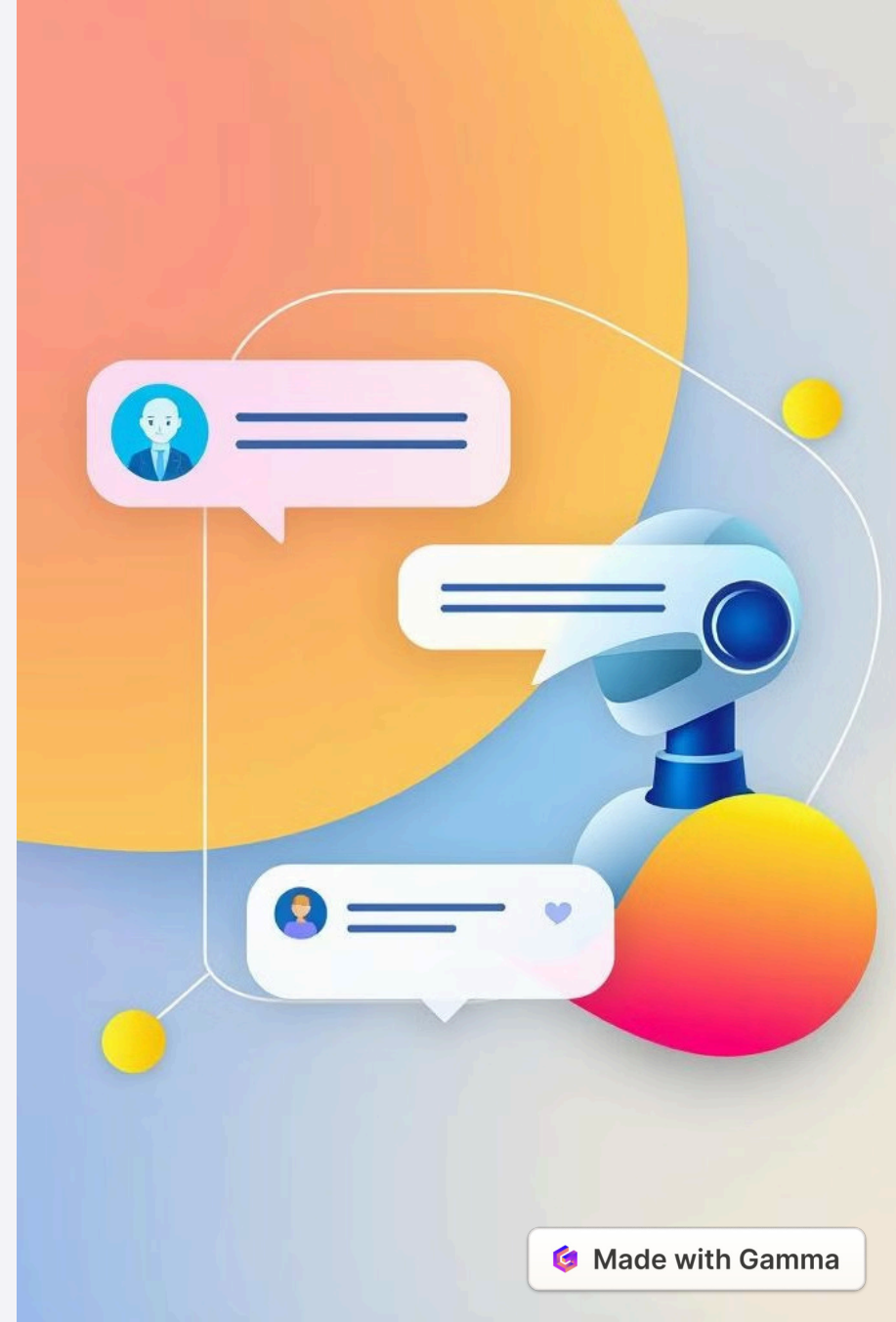


# Development of an E-commerce Sales Chatbot

This presentation outlines the development process of an e-commerce sales chatbot, showcasing the innovative solutions and key features that enhance customer experiences.

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# Objectives

## **Simplified Interactions**

Create a user-friendly chatbot interface to simplify e-commerce interactions.

## **Enhanced Experience**

Enhance the customer experience across the entire purchase journey, from product search to completion.

# Architecture

1

## Frontend

HTML5, CSS3, and JavaScript provide a responsive user interface.

2

## Backend

Flask (Python) handles the backend logic, including API requests and database interactions.

3

## Database

SQLite manages the product catalog and user data.

## Chatbot architecture



# Features

## Responsive UI

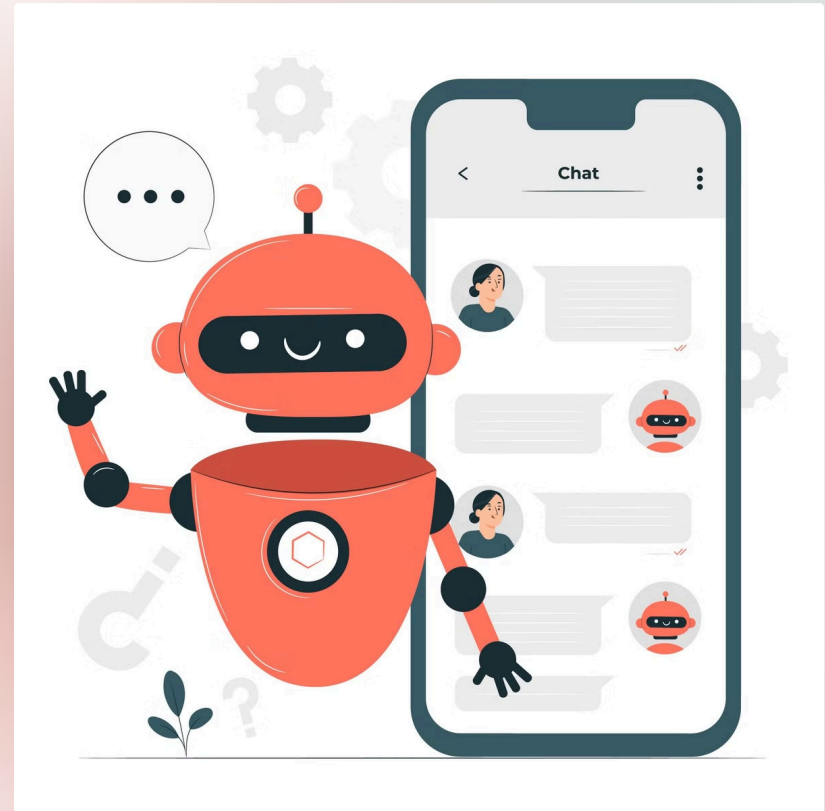
The chatbot is optimized for various screen sizes and devices.

## Real-Time Search

RESTful APIs power real-time product search functionality.

## Mock Inventory

The chatbot uses a mock inventory with diverse product details.





# Challenges



## Responsive UI

Designing a responsive and user-friendly chatbot interface for diverse devices.



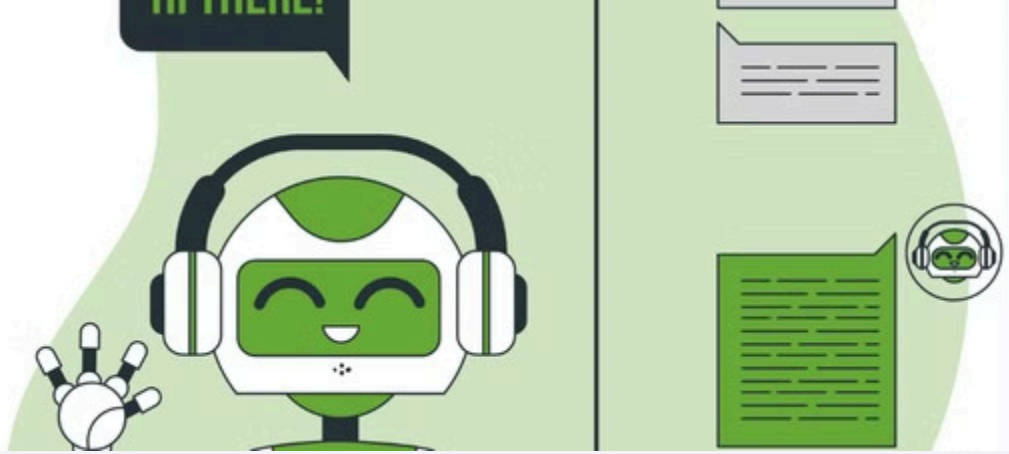
## Invalid Queries

Handling invalid user queries and providing appropriate responses.



## Realistic Dataset

Creating a realistic and diverse product dataset for the chatbot's inventory.



## Conversational AI Chatbot Solution For E-Commerce

### Solutions

1

#### CSS Media Queries

Leveraging CSS media queries to ensure responsiveness across different screen sizes.

2

#### Flask Error Handling

Implementing error handling mechanisms within the Flask API to gracefully manage invalid queries.

3

#### SQL Data Generation

Creating a mock product inventory using SQL scripts to provide a comprehensive and realistic dataset.

# Results

1

## Functional Chatbot

A fully functional chatbot interface for product search and information retrieval.

2

## Frontend-Backend Integration

Smooth communication between the frontend and backend systems, ensuring seamless user interactions.

3

## Efficient Query Handling

Efficient query handling and accurate responses based on a comprehensive mock inventory.



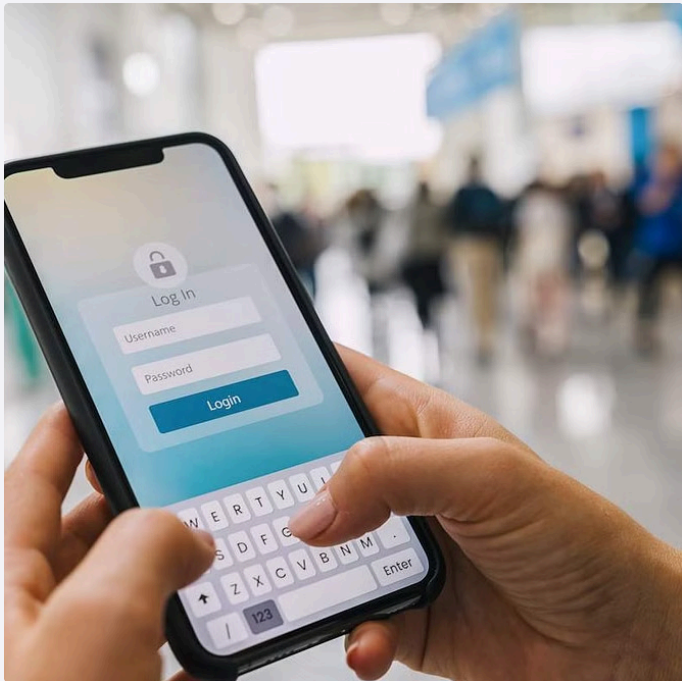


# Future Enhancements



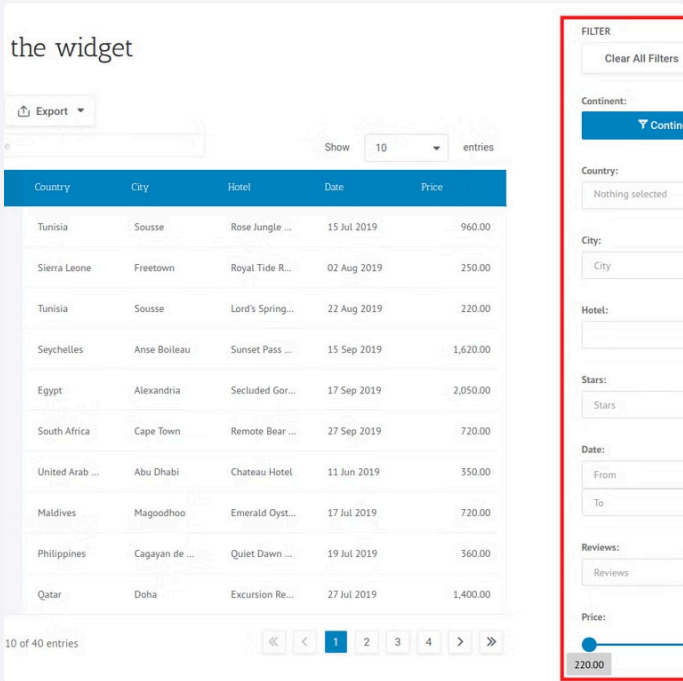
## NLP Integration

Integrate natural language processing (NLP) for more intelligent and conversational interactions.



## User Authentication

Add user authentication and purchase options to streamline the buying process.



## Advanced Filtering

Expand the product inventory with advanced filtering options to personalize the shopping experience.



# Thank You!

Thank you for your time. We welcome your questions and feedback.

