

E-commerce Chatbot Project Report

1. Project Overview

This project is a full-stack E-commerce platform with integrated chatbot functionality, built using React.js, Flask, and MySQL.

It enables users to browse products, manage carts, and complete checkouts while receiving chatbot assistance for a guided shopping experience.

2. Technology Stack

Frontend:

- React.js, React Router, Tailwind CSS, Axios

Backend:

- Flask, Flask-JWT-Extended, Flask-CORS, SQLAlchemy

Database:

- MySQL (for storing users, products, cart items, orders)

3. Setup & Installation

Backend Setup:

1. Create and activate a virtual environment.
2. Install requirements.txt.
3. Update DB URI in app.py.
4. Run the server using `python app.py`.

Frontend Setup:

1. Navigate to frontend/ and run `npm install`.
2. Start frontend with `npm start`.

Make sure MySQL and your virtual environment are active.

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4. Sample MySQL Queries

```
SELECT * FROM product;
```

```
SELECT * FROM cart_item WHERE user_id = 1;
```

```
SELECT * FROM orders WHERE user_id = 1;
```

5. Results & Features

- JWT-based user authentication
- Cart functionality with dynamic updates
- Order creation with database persistence
- Responsive UI and mobile support
- AI chatbot integrated for support

6. Author

Shrisai Bandal

GitHub: <https://github.com/Shrisai9>

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