A Group Report on

E-COMMERCE WEBSITE

Submitted in the fulfilment of the requirements of the Internet and Web Technologies Course

Submitted by

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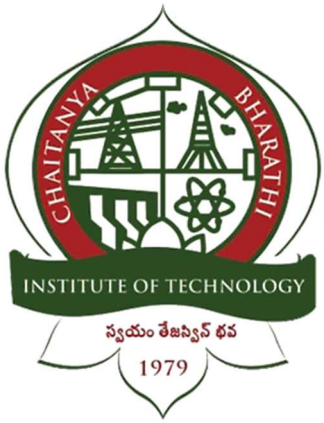

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OBJECTIVE

To create a small-scale E-Commerce website, where users will have the opportunity to buy products online. Currently, the main functionality of the web application would be to enable users to select items, add it to their carts and eventually buy them through their preferred choice of payment. The application aims to be intuitive where all processes can be easily performed, enriching the user experience. To address the above-mentioned criterion, Django along with HTML, CSS and JS are used. Additional APIs are used to manage the payment window, tokens and cookies of a particular session.

INTRODUCTION

E-commerce is the activity of selling or buying goods over the internet. Examples include Amazon, Flipkart etc. An e-commerce website is expected to handle a lot of features and humongous amounts of data, like data of the seller, buyer, product, product reviews, similar products etc.

To handle and meet such expectations, we have chosen to use the python web development framework – Django. Django is a feature rich package, its:

- Scalable
- Maintainable
- Portable

Django is also very popular, and the community is thriving and vivid. The documentation of Django is easy to read and understand, which makes development using Django easier.

Django follows the 'batteries included' ideology, Django is based on the MVT model, which is in-turn inspired by the MVC model. It also comes with an in-built database (SQLite3).

Django simplifies repetitive tasks like:

- Forms
- User authentication and permissions
- Caching
- Admin site
- Serializing data

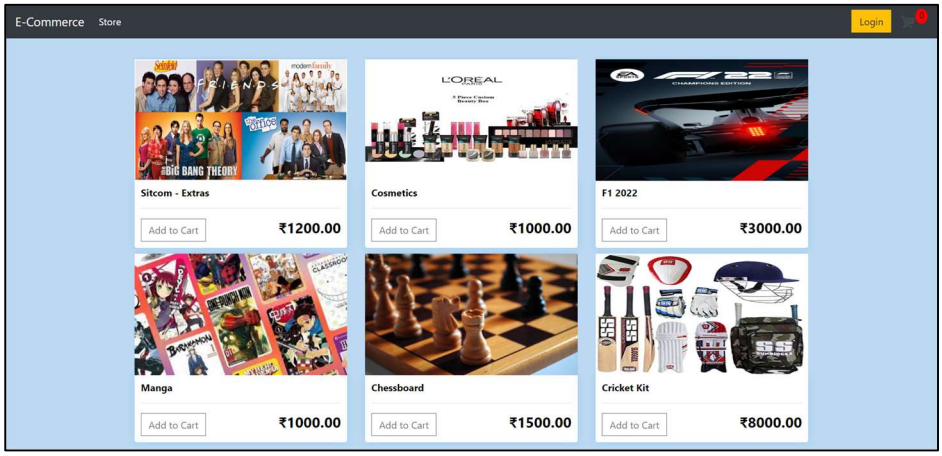
TECHNOLOGIES USED

TARGETED AUDIENCE

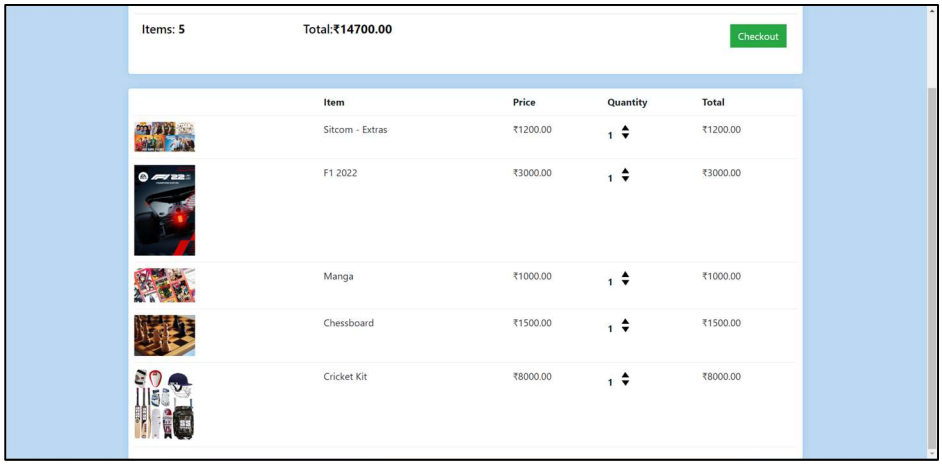
The main purpose of an E-Commerce website is to facilitate the easy purchase and sale of commodities over the internet. Thus, the website can be huge boon to both buyers and sellers alike. Traders or organizations can register themselves on the portal to sell their products to a larger audience. Similarly, users can avail the benefits of the website to buy and return products at the most affordable prices at their ease.

OUTPUTS

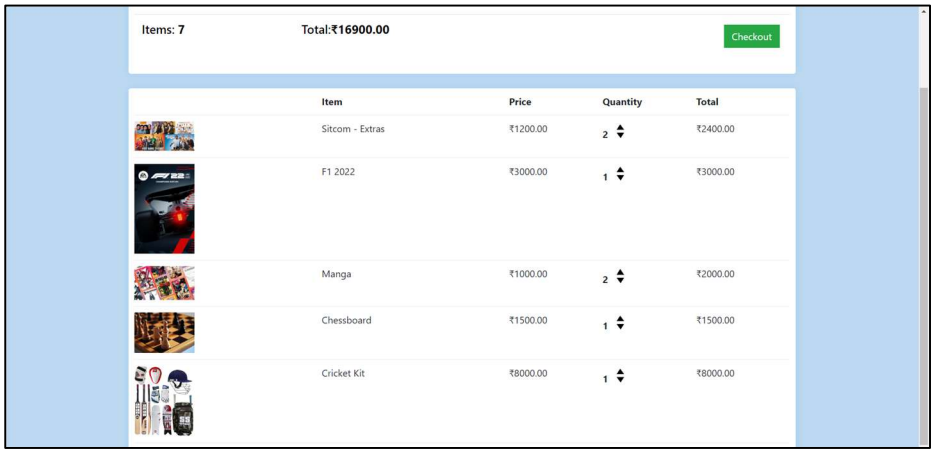
Index Page



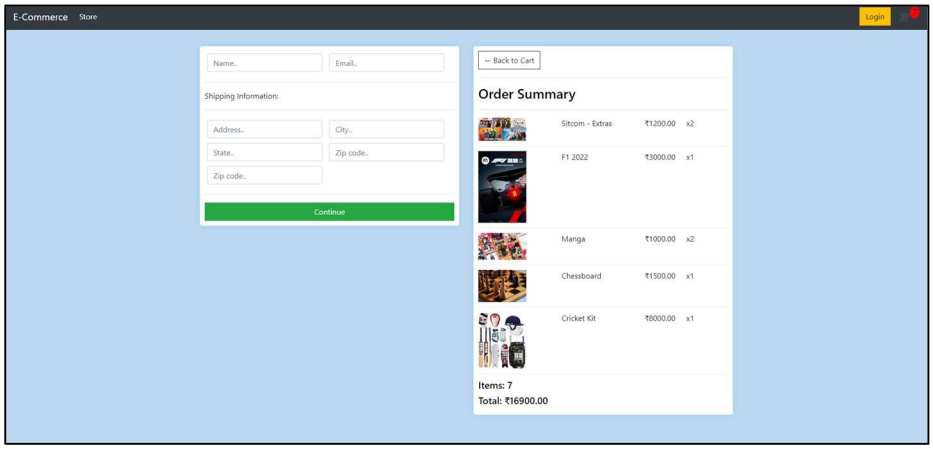
Shopping Cart

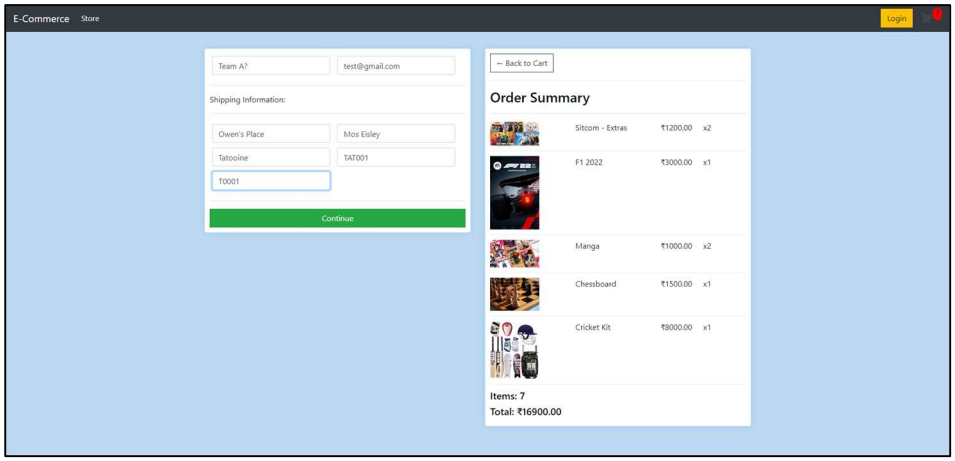


Updated Shopping Cart

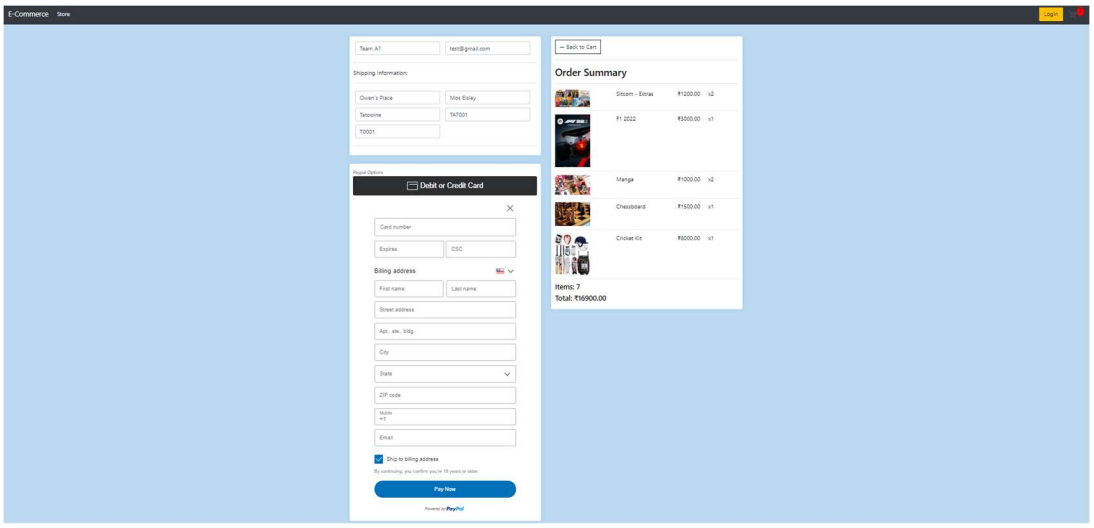


Checkout Page

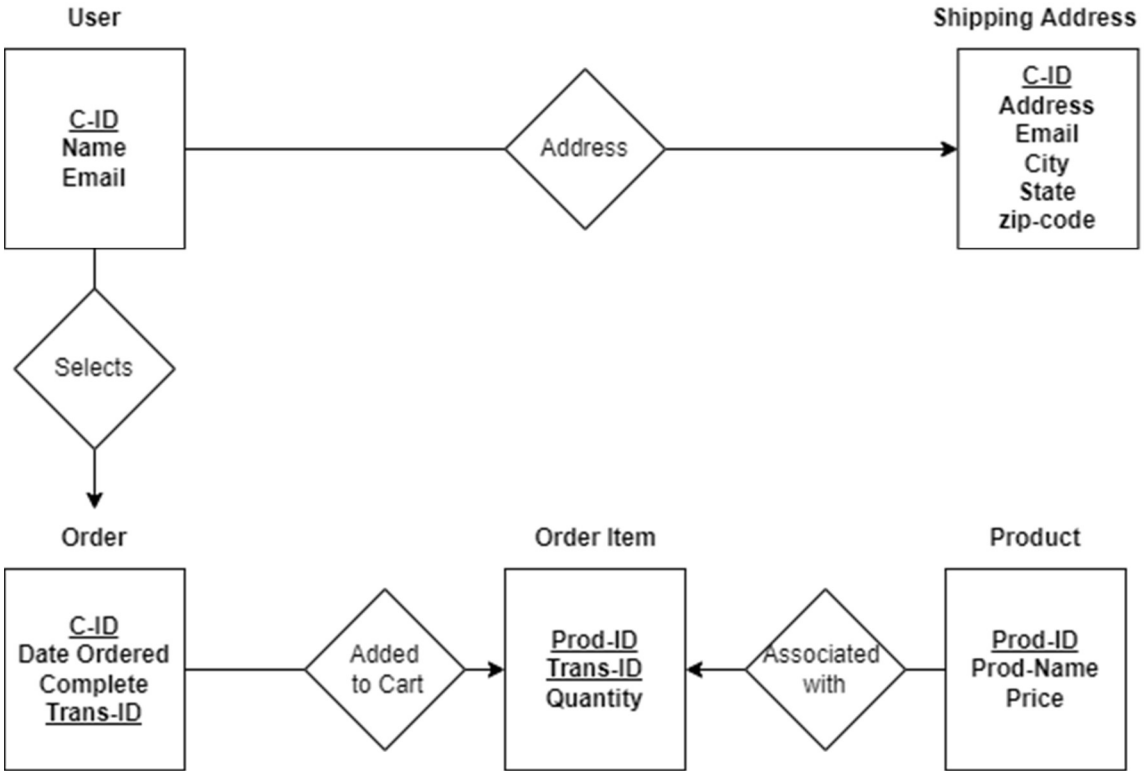




Payments Page (Screen Size: 50%)



DATABASE DESIGN



CONCLUSION

Our small-scale e-commerce was successfully developed using Django. The pre-existing database made it easier to handle data and execute CRUD operations using the model.