

Team 9 Project Charter

e-shop.io

Team Members:

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Project Title:

E-shop.io: Live collaboration website builder

Problem Statement:

- E-commerce websites have become the goto solution for most people who intend to start a business online yet most of the tools that enable users to build these sites such as Shopify, NetSuite, Squarespace and HackMD do not support live collaboration and do not have a convenient interface for sellers and customers to communicate, which makes creating a website in a team very tedious and slow.
- This problem can be solved by creating a website builder with built in live collaboration to allow teams and companies to build their services enabling them to market faster and more efficiently.
- The project will also implement a follow system, message network, and review area to strengthen the connectivity between buyers and sellers.
- E - Commerce website builder for customers who wish to sell their products online, can organize, advertise, and make it extremely easy for their customers to fall in love with their products.

Project Objectives:

Summary:

Details:

- Create a platform for e-commerce that will allow live collaboration.
- Allow individuals to set-up shops where they can list their goods and store their inventory.
- Provides environment for interactions between website owners and consumers
- Gives access to payment system
- Create a follow system to keep track of their favorite merchants, brands and content creators
- Live collaboration features: live comments, text editing, resizing of html elements, link sharing and history revision etc.
 - Will implement live collaboration using an operational transformation algorithm because it works in many systems and has flexible conflict management when users are editing at the same time.

Stakeholders:

Users: Anyone who works in teams and wishes to sell their products online.

Developers: Julian Chen, Eliel Vipata, Viet Nguyen, Ajay Kumar, Saatvik Anumalasetty

Project Managers: Gowri Harish

Project Developers: Julian Chen, Eliel Vipata, Viet Nguyen, Ajay Kumar, Saatvik Anumalasetty

Deliverables:

Goals:

- Website T--emplates for creators to choose from
- Ability to leave reviews, comments, communicate with merchants
- Database and inventory management
- Implement real time collaboration using operational transformation
- Payment processing

APIs:

- Google cloud: store databases of products, comments, conversations, transactions, ...
- Stripe API: for payment processing

Frameworks:

- Django: backend
- Stripe: payment processing
- Parse & MongoDB: database server
- Javascript & HTML : frontend
- Operational Transformation: Live Collaboration framework
- Algorithm for Operational Transformation control: COT

Testing Frameworks:

- Jest: Javascript Testing
- Django: Python Testing
- Stripe Test
- Other tests will be done manually