



Centennial College – Fall 2022 – Comp 229.Sec.005 – Web Application Development

Chafanarosa Buy & Sell

(Phase 2)

EXTERNAL DESIGN DOCUMENT

Prepared by:
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Date created 12 / 11 / 2022
Version 2.0



Centennial College – Fall 2022 – Comp 229.Sec.005 – Web Application Development

PROJECT EXTERNAL DESIGN ACCEPTANCE

Project Name: Chafanarosa Buy & Sell

Project Sponsor: N/A

Project Manager: Chantelle Lawson

APPROVAL

The following indicates our approval of the Project External Design Document. We agree that the document outlines the design changes within Systems Development to meet the requirements for Chafanarosa as identified by the Functional Areas represented on the project.

Manager(s) Review:

Chantelle Lawson - Project Manager 12/11/2022

Project Representative(s) Approval: *On behalf of the business*

Fatimah Binti Yasin - Web Designer 12/11/2022

Santiago Sanchez Calle - UI Programmer 12/11/2022

Nandagopan Dilip – Database/Security Programmer 12/11/2022

Ronald Jr Ombao – Lead Software Engineer 12/11/2022

REVISION LOG

Version	Update Date	Updated By	Description of change	Revised Section
1.0				
2.0	11/25/2022	Chantelle	'Delete' changed to 'Deactivate'	1.2
2.0	11/25/2022	Chantelle	'Authorized' changed to 'Authenticated'	2.1
2.0	11/26/2022	Chantelle	Added colour swatch	5.1.1.2
2.0	11/26/2022	Chantelle	Landing Page Wireframe	5.1.1.3
2.0	11/26/2022	Chantelle	Sign-up Page Wireframe	5.1.1.3
2.0	11/28/2022	Chantelle	Sign-in Page Wireframe	5.1.1.3
2.0	11/28/2022	Chantelle	Interface Names	5.3.1
2.0	11/28/2022	Chantelle	Conversion Description	6.1 – 6.3
2.0	11/28/2022	Santiago	DB Model of Question/Ad/Answer Relationship	7.1
2.0	11/28/2022	Chantelle	Project Terms	8.1

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1 INTRODUCTION.

This document is a representation of Chafanarosa Buy & Sell's external design components. As an established e-commerce business, CB&S have expressed their intent to expand the functionality of the business's current website. With the creation of an authorized view, CB&S's clients will have increased user capabilities.

1.1 Document Objectives

The objective of the External Design Document is to outline the systems design for the project. This document will be signed off by user representatives and be used by the systems analysts and application architects to design the system(s). This document will:

- Provide introductory and overview material for the entire project
- Detail the user interfaces (screens, web pages, reports etc.) that will be delivered, and which support the business requirements
- Details system interface requirements for all impacted systems

The intended audience is:

- Business team members representing the major operational areas of Chafanarosa Buy & Sell who need to approve the external design.
- Representative of impacted systems who need to develop detailed internal design specifications from this external design.
- Other interested Chafanarosa Buy & Sell management.

1.2 Project Overview:

This project will implement the design of an e-commerce website. Unauthorized user's will have the option to view products for sale and contact seller via email. Additionally, user's will have the option to become site members by signing up. Once authorized, users will have the ability to create, read, update, and deactivate products from the website's database.

1.3 Project Impact:

Now, more than ever, e-commerce users require enhanced capabilities while making purchases and selling products. This project will positively impact current users and encourage new users to become members of the e-commerce community.

2 DESIGN SUMMARY:

This section will provide a summary of the system design for this project.

2.1 Summary of Changes

This section provides a summary of the changes that this project will implement.

1. Change the current website which uses EJS templates to render different views and store data within the database, to an Angular implemented framework which will provide enhanced structure and maintainability.
2. In addition to the website's current un-authenticated views, a new authenticated section of the application will be created.
3. Allow users to view desired categories by creating clickable buttons
4. Allow users to search for products by creating a 'search bar' feature

2.2 Assumptions

1. Users will already be familiar with the structure and purpose of an ecommerce website.
2. New users will have previous experience with the sign-up/sign-in/sign-out process.
3. All users will be familiar with accessing an inventory list via a navigation bar.
4. All users will be familiar with searching for products via a search bar.

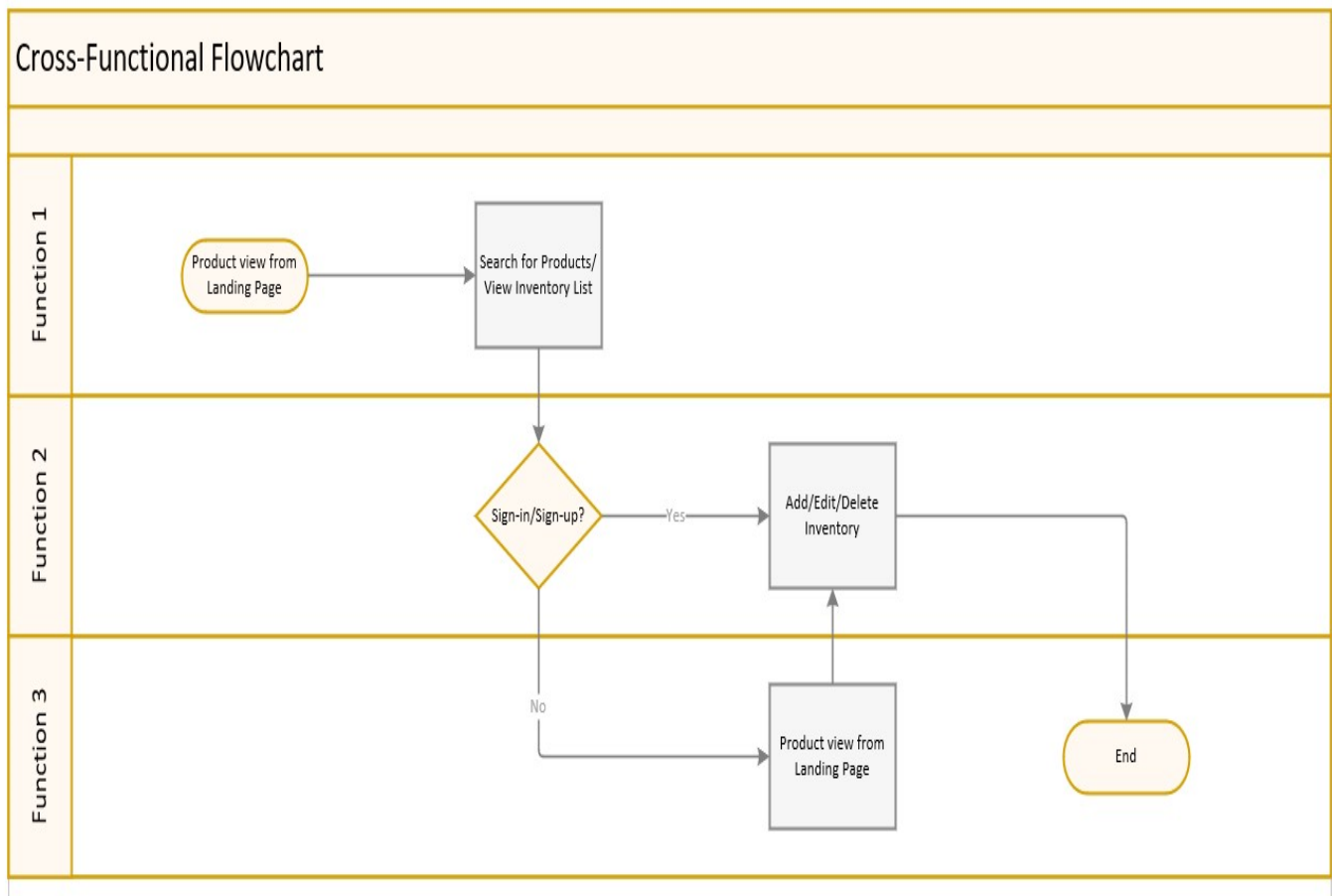
2.3 Risk and Contingencies

1. Lack of personnel resources when testing is to begin.
2. Lack of availability of required hardware, software, data or tools.
3. Late delivery of the software, hardware or tools.
4. Delays in training on the application and/or tools.
5. Changes to the original requirements or designs.

3 SYSTEM PROCESS FLOW:

The System Process Flow identifies all of the systems and interfaces that are required to support the business requirements. The diagram will illustrate the user interfaces to the systems, interfaces between systems, the data flows, and the major inputs and outputs.

3.1 System Process Flow (diagram)



4 TECHNICAL ARCHITECTURE:

4.1 *Architecture View*

1. Layer 1 - Physical Layer: Encoding and procedural formats.
2. Layer 2 – Data Link: Transfer data from one network node to another.
Implements data integrity.
3. Layer 3 – Network: Routes and relays data across a network of nodes.
4. Layer 4 – Transport: End-to-end data transfer and integrity across the network.
5. Layer 5 – Session: Co-ordinates connection and interactions between applications
6. Layer 6 – Presentation: Compression and code conversion.
7. Layer 7 – Application: Application interfaces

5 SYSTEM REQUIREMENTS

5.1 Online Screens

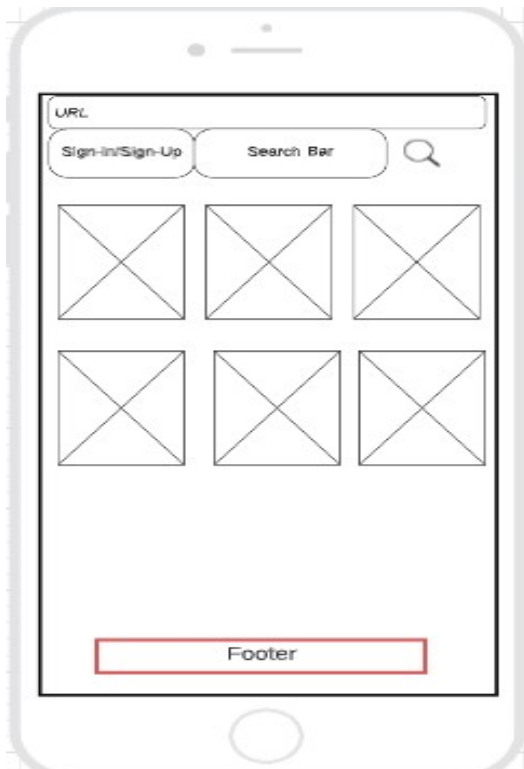
5.1.1 Screen Name: Landing Page/Home Page

5.1.1.1 Description / Requirements

- Unauthorized users can view products for sale and contact sellers via email
- Unauthorized users will have the option to become site members by using an electronic sign-up form.
- Authorized users will have the ability to create, update and delete inventory items.

5.1.1.2 Screen Design

Low-Fidelity Wireframe :

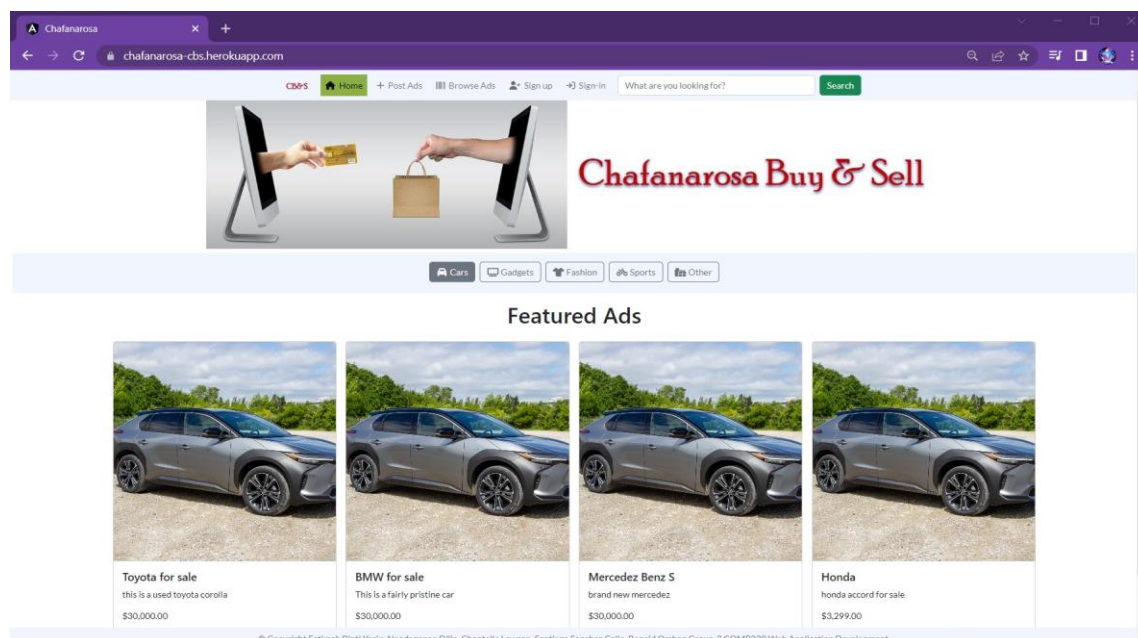
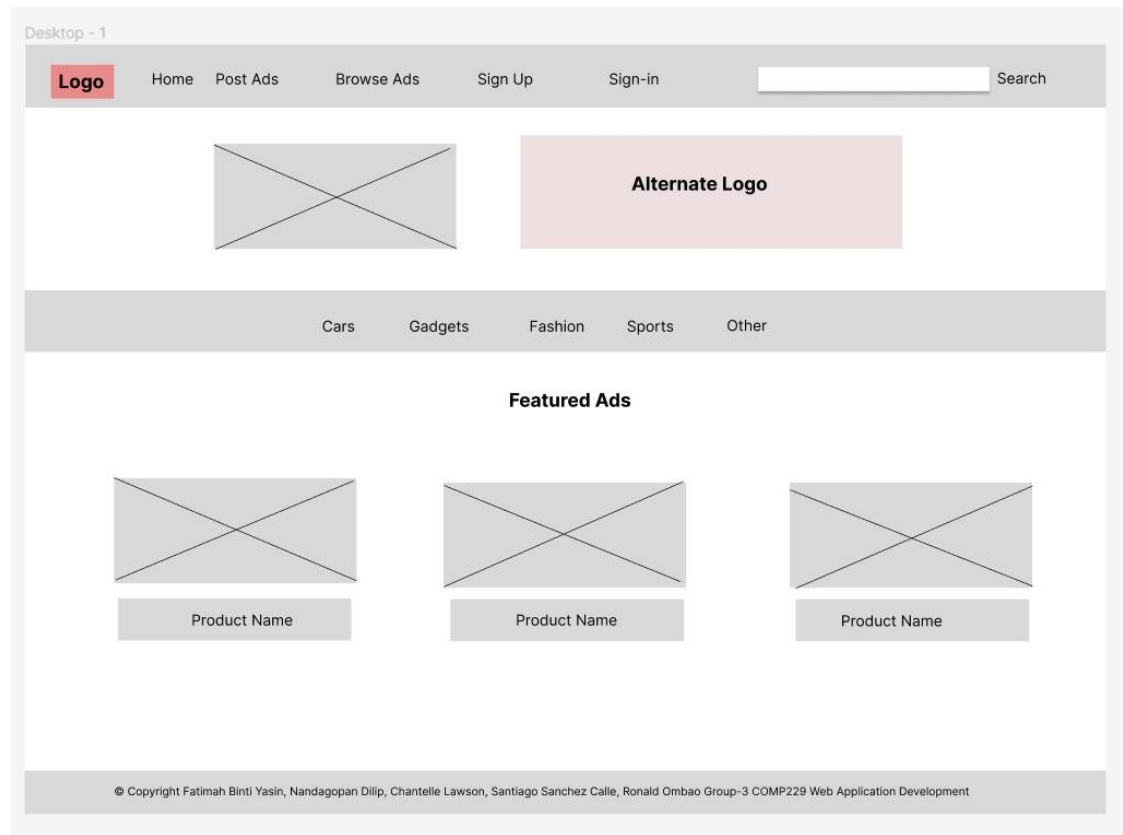


Colour Swatch:



5.1.1.3 Screen Edits

Landing Page Wireframe:



Sign-up Page Wireframe:

Desktop - 1

Logo Home Post Ads Browse Ads Sign Up Sign-in Search

Register

First Name

Last Name

Email Address

Username

Password

Sign up Cancel

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Chafanarosa

chafanarosa-cbs.herokuapp.com/auth/register

Home Post Ads Browse Ads Sign up Sign-in What are you looking for? Search

Register

First Name

Last Name

Email Address

Username

Password

Sign up Cancel

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Sign-in Page Wireframe:

Desktop - 1

Logo Home Post Ads Browse Ads Sign Up Sign-in Search

Log-in

Username

Password

Log-in Cancel

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Chafanarosa x +

← → ↻ chafanarosa-cbs.herokuapp.com/auth/login

CB&S Home + Post Ads ||| Browse Ads Sign up Sign-in What are you looking for? Search

Log-in

Username

Password

Log-in Cancel

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5.2 Reports

5.2.1 Report Name

5.2.1.1 Description / Requirements

5.2.1.2 Report Layout

5.3 Interfaces

5.3.1 Interface Name

Landing Page, Sign-up Page, Sign-in Page

5.3.1.1 Description / Requirements

TBA

5.4 Batch Processes

5.4.1 Process Name

TBA

5.4.1.1 Description / Requirements

TBA

6 CONVERSION:

6.1 Objectives

Develop a front and back end

6.2 Approach

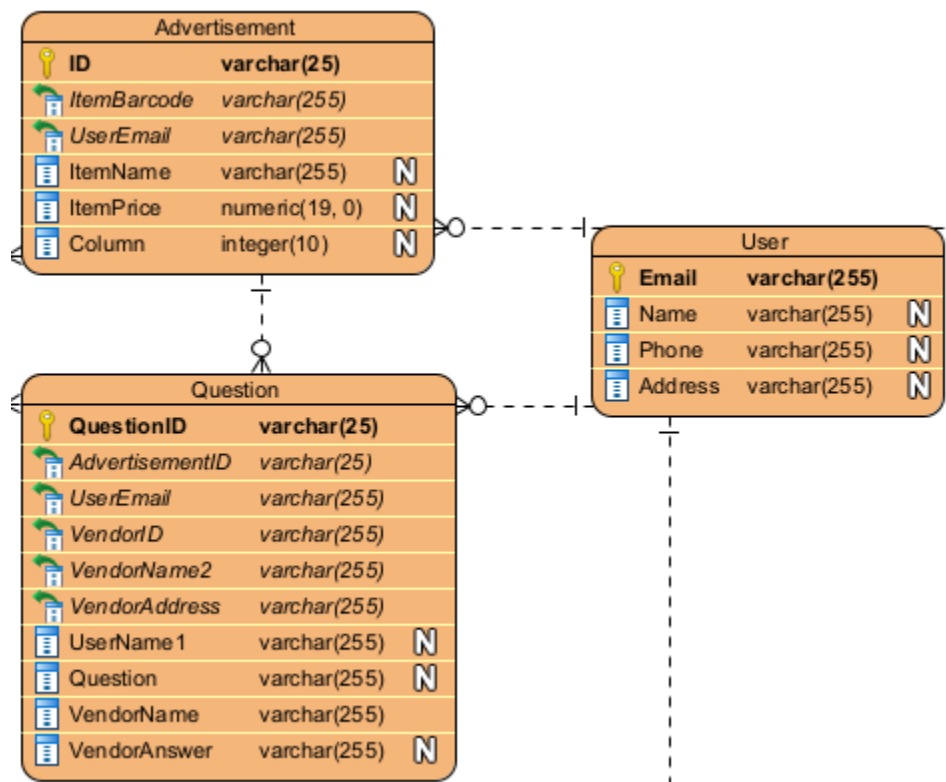
Convert our current web application from EJS to Angular

6.3 Schedule

November 12 – November 26 (Sprint #2)

7 DATA REQUIREMENTS

7.1 Static Data



8 GLOSSARY OF TERMS:

8.1 Project Terms

DB – Database

LP – Landing Page

S/U – Sign-up Page

S/I – Sign-in Page

9 APPENDIX A:

TBA