

Software Design Specification Document

(CS360)

Kahanian



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Course: Software Engineering CS360

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1 Change Log

1.1 Project Scope

The project scope is the same as described previously in the SRS. The only addition to the scope is the specification of the user group. The project scope is described in detail in section 2.2.

Target User Group

According to monthly Instagram reports, Kahanian is popular among young ladies of Pakistan aged 16 above. These women will use the web application across different cities in Pakistan to order online and it is assumed that this user group is familiar with using web applications. With sufficient *semantic and syntactic* knowledge, this user group is classified under '*Knowledgeable Intermittent Users*'.

1.2 Change log

1. After careful evaluations and in-group discussions, the team members have decided to not implement the secondary use cases defined in the SRS document. This decision has been made due to time constraints and limited expertise of the team members.
2. However, the secondary use case, ‘View Related Products’ will be implemented.
3. While working on this document, the members realized a need to add five additional use cases and alter one use case. The 5 new use cases will be
 - a. View About us - Customer/ Guest
 - b. Update About us - Admin
 - c. Archive Collections - Admin
 - d. Block reviews – Admin
 - e. View Subscribers – Admin

The use case which will be altered will be “Delete Product” (RQ 4 from the SRS). It will be changed to Archive Products instead. The tables corresponding to these use cases are added below

4. We will not be implementing the filter product search use case. Upon inspection, the client, Hania Rafique said that given the small collection and scope, the use case will not be useful for this website.
5. Lastly, this is a clarification to an existing use case: Both the guest and a customer (with an account) are allowed to leave product reviews.

Update About Us	
Description	System will allow the admin to update information related to the “About Us” category.
Input	Click on the Edit tab in the About Us category, while being in the admin

	dashboard.
Processing	The details get changed and are stored in the database.
Output	The users are now able to see the updated “About Us” information.

	View About Us
Description	System will allow the customers to view information related to the “About Us” category.
Input	Click on the “About Us” tab from the footer from any webpage.
Processing	Clicking on the “About Us” option will take the customer to another web page.
Output	The customers will be able to see the information related to the “About Us” category.

	Archive Collection
Description	System will allow the admin to archive collections.
Input	Click on the “Archive Collection” button in the admin dashboard, in manage collections.
Processing	Clicking on the “Archive Collection” button will archive that certain collection and that will be stored in the database.
Output	The customers will not be able to see that certain collection after it has been archived by the admin.

	Block Reviews
Description	System will allow the admin to block reviews.
Input	Click on the flag button under view manage reviews tab in admin dashboard.
Processing	Clicking on the flag will mark that certain review as blocked. The status will be stored in the database.
Output	That review will no longer be shown in the reviews.

Archive Products	
Description	System will allow the admin to archive products under a certain collection.
Input	Click on the “Archive product” button in the admin dashboard.
Processing	Clicking on the “Archive product” button will archive that certain product and that will be stored in the database.
Output	The users (Customers) will not be able to see that certain product after it has been archived by the admin.

View Subscribers	
Description	System will allow the admin to view the people who have subscribed to the brands newsletter.
Input	Click on the “View Subscribers” button in the admin dashboard.
Processing	Clicking on the “View Subscribers” will open a new page. Information of the subscribers will be fetched from the database.
Output	A table consisting of the emails of the subscribers is shown to the admin.

2 Introduction

This document describes the design specifications of the project, Kahanian, which is a web-based online clothing application. This document describes the different components and subsystems which will be provided as part of the website through the use of UML component diagram, class diagram, sequence diagrams, activity diagram, context diagram and the database schema. Finally, the document includes the front-end screens for the website.

2.1 Document Purpose

Kahanian is an ecommerce website where people can purchase clothing products that are produced by Kahanian, a startup clothing brand. This will be the first version of the website and will be created independently, that is, it is not a revision of an existing web-application.

The SDS document will serve the purpose of defining the system and subsystem architecture of the Kahanian website in detail by providing different views of the system and providing a high-level view of the database, components, subsystems. This is achieved by the implementation of class, sequence, component, activity and context diagrams. Moreover, this document also aims to give the final look and feel of the front-end by the design of high-fidelity front-end screens. Thus, combining the user interface screens with the software design, the SDS document is extremely important for the development phase. Furthermore, the document will make sure that the requirements of the end customer are met properly by revising the non-functional requirements and identifying system constraints and architectural strategies.

2.2 Product Scope

Kahanian's Web-Application will allow team Kahanian to display and conduct sales of their clothing collections, and their users to conduct purchases of their collections. This Web-Application will be accessible to everyone who has an internet and a browser, but the brand itself is based to sell its products to people only living in Pakistan. The basic goal of the product is to provide a system that unifies the brand("Kahanian") with its users. This will help increase their reach to people all around Pakistan, since it was only based on Instagram before. This system will also be more efficient and will provide team Kahanian an automated process to sell their products and manage orders.

The system, on the user side, will allow the users to browse clothing items, ask queries and purchase one or more available products. It will also use their personal information including their house address for billing purposes. The admin side will allow the admins to add, delete and edit products/collections, view order/sales details, and ship products using a third-party application. Order and User details will be used by the admins in order to provide discount coupons.

Target User Group

According to monthly Instagram reports, Kahanian is popular among young ladies of Pakistan aged 16 above. These women will use the web application across different cities in Pakistan to order online and it is assumed that this user group is familiar with using web applications. With sufficient *semantic and syntactic* knowledge, this user group is classified under '*Knowledgeable Intermittent Users*'.

2.3 Intended Audience and Document Overview

This document is organized in six sections and each section has its own subsections. There are two appendices at the end of the document. The basic organization is as follows:

1. *Change Logs*: This section mentions any details from the SRS document that the team has decided to change/modify.
2. *Introduction*: This section includes the purpose of the SDS document, description of the software to be developed, the intended audience of the document, definitions needed to interpret the SDS and the references used in the document.
3. *Overall Description*: This section includes the system overview, constraints and the architectural strategies.
4. *System Architecture*: This will include the entire overview of the subsystems architecture and the database schema and model, including activity diagrams.
5. *User Interface Design*: This will include the information architecture and the front-end screens of the website.
6. *Other non-functional requirements*: This section includes the performance, safety and security requirements of the software as well as software quality attributes.
7. *Appendices*:
 - Appendix A: Group Meeting Logs (In-group meetings and TA meetings)
 - Appendix B: Contribution statements of the five team members.

This document is intended for the following readers:

1. Developers

Names: *Ahmed Ateeq, Umme Ammara, Hania Rafique, Mominah Anwar, and Maryam Saadat*
The developers are the five people from the development team responsible for the application's documentation and development. Since the developers also constitute documentation writers, the entire document is essential for them. However, the reading order recommended below will be useful for the team during the development phase.

- Section 4 (4.4, 4.1, 4.2, 4.3, 4.5)
- Section 5 (5.2, 5.3, 5.1, 5.4)
- Section 3 (3.1, 3.2, 3.3)
- Section 6
- Rest of the document in any order

2. Client

Names: *Kashaf Batool and Hania Rafique*

The clients are the two co-founders of the startup who require the web application. Before reading the document, the client must read the definitions, acronyms, and abbreviations used to better understand the document. Looking at the interface screens next will benefit the clients as it will help them access the final look and feel of the website.

- Section 2.4
- Section 5 (5.3, 5.1, 5.2)

- Section 6 (6.1,6.2,6.3)
- Rest of the document in any order

3. Instructor

Name: *Dr. Suleman Shahid*

The instructor, Dr. Suleman Shahid, is teaching software engineering to the development team. He is the project supervisor of Kahanian and will be overlooking the progress and guiding the team through each phase of the project. This document is crucial for him to access the group's progress and provide feedback. The instructor can read the document in any order according to his preference.

4. Teaching Assistants

Name: *Mehreen Masood (Primary) and Minhal Aftab (Secondary)*

The two teaching assistants will also overlook the project's progress and form a guide to the team. There will be weekly meetings with the primary teaching assistant, and she will be answering the team's queries and confusions. Hence, they are essential readers of the document since they will check the document's correctness, note the group's progress, and provide feedback. The entire document is relevant to the teaching assistants however, it might be useful to read Section 1 first so that the changes made from SRS can be noted. Appendix A and B first to access the group's combined and individual contributions. They can then read the document in the same order as the original structure of the document.

- Section 1
- Appendix A and B
- Rest of the document in any order

2.4 Definitions, Acronyms and Abbreviations

<i>Terms</i>	<i>Definitions</i>
Actor	An Actor models a type of role played by an entity that interacts with the subject (e.g., by exchanging signals and data), but which is external to the subject.
Admin	The person managing the Web-Application.
Backend	The part of the website that contains the database where data is stored. It also refers to the server.
Database	An organized collection of data stored in tables on a computer system
Developer	A coder/programmer that creates computer software.
E-commerce	Commercial transactions conducted electronically on the internet.
External Interface	External interfaces are typically a product's lifeline to the outside world.
Figma	It's a collaborative interface design tool.
Frontend	The frontend of the website is the part of the website that the user interacts with.
GUI	Graphical User Interface - It is a type of user interface that displays objects that convey information and represent actions that can be taken by

	the user. The objects change color, size, or visibility when the user interacts with them
Heuristic	A heuristic is a fast and practical way to solve problems or make decisions.
High-Fidelity	The reproduction of an effect (such as sound or an image) that is very faithful to the original.
SDS	Software Design Specification
Single Page Apps	An app that works inside a browser and does not require page reloading during use.
SRS	Software Requirements Specification.
User	The person that will use the Web-Application.
Web Application	A web application is application software that runs on a web server.

2.5 References and Acknowledgments

Definitions:

<https://www.presentationeze.com/presentations/software-validation/software-validation-full-details/software-design-specification/>

UML Component Diagram:

<https://www.guru99.com/component-diagram-uml-example.html>

Activity Diagrams:

<https://www.visual-paradigm.com/guide/uml-unified-modeling-language/what-is-activity-diagram/>

Reference for Screens:

<https://pk.sapphireonline.pk/>

Reference for Database:

<https://firebase.google.com/docs/rules/rules-and-auth#:~:text=Firebase%20Security%20Rules%20provide%20access,Authentication%20with%20Firebase%20Security%20Rules>

<https://firebase.google.com/>

<https://firebase.google.com/docs/firestore/manage-data/data-types>

Reference for Information Architecture:

<https://www.lucidchart.com/pages/ER-diagram-symbols-and-meaning>

Reference for Website Design Conventions:

<https://www.webascender.com/blog/7-website-conventions-to-follow-when-designing-your-website/>

Reference for Design Heuristics:

[10 Usability Heuristics for User Interface Design \(nngroup.com\)](https://www.nngroup.com/articles/10-usability-heuristics/)

Acknowledgments:

- Draw.io for System Architecture diagrams
- Mural used for rough sketches of wireframes
- Figma used to make high-fidelity screens
- Adobe Photoshop to aid the making of high-fidelity screens

3 Overall Description

3.1 System overview

Overview:

The goal of Kahanian is twofold: ease the ordering and browsing experience for the customers and guests and automating the client information handling and managing the details of the clothing collections for the admin users. There are two kinds of actors namely admin and customers. Customers include the guest users who are not registered on the website.

Main functionality:

The functionality of the system can be grouped in the following categories:

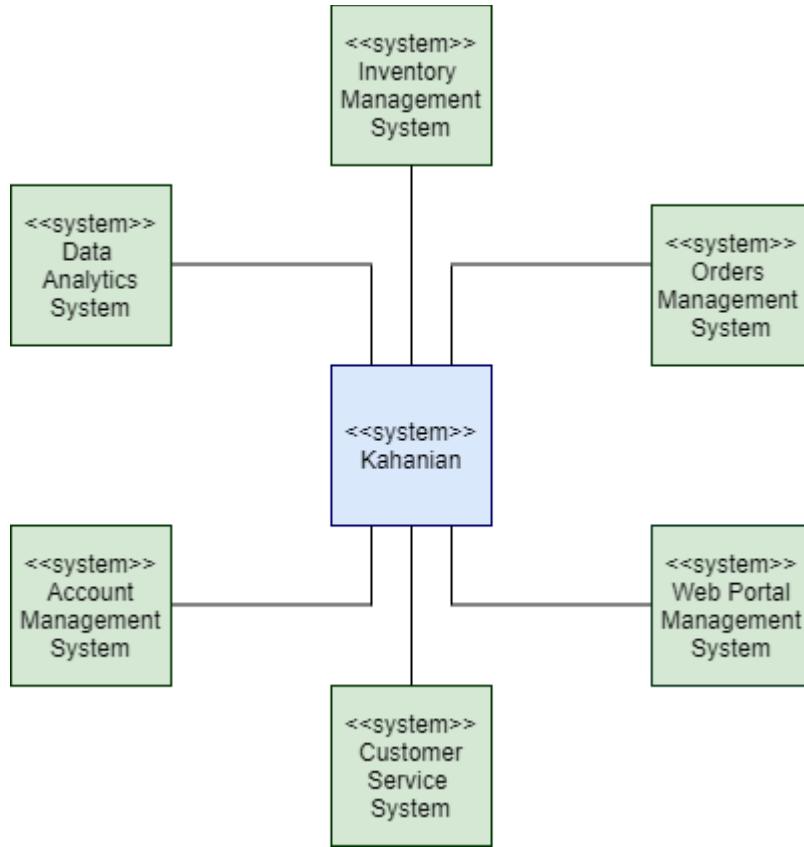
- Accounts Management
- Inventory Management
- Online Purchase
- Data Analysis
- Customer Support
- Web Portal Management

Details of the functionality is provided in the SRS document.

Design:

The design of the system is described with the help of diagrams in section 4 and the front-end screens are shown in section 5.

Context Diagram:



3.2 System constraints

- The user will require a computer with a web browser to access the system because the system is optimized for desktop usage, we cannot guarantee if we will be able to optimize the system for use on mobile or tablet interfaces.
- The system is entirely in English, so we are assuming that the end user has some basic knowledge of English language.
- The user-interface consists of an icon and we are assuming that the end user has some basic idea about the different icons used on an e-shopping system. For example:
 - ◆ if the user clicks on the cart icon, they understand that it will lead to opening their shopping cart.
 - ◆ if the user clicks on the contact pages icon, it will refer them to the social media pages.
- The end-users are required to be connected to a stable internet connection because not only is the system hosted on the web, but the system also uses third party functionalities (bootstrap, google fonts, icons) which can only be displayed if the user is connected to the internet.

- For our back end, we will be using firebase's free quota which has a limited storage of a GB. For now, one GB will be more than enough to store the client's data. However, in the future, with the increase of products and end users on the website, the client will have to upgrade storage for the backend.
- Users may face latency issues due to network congestion and low signal strength.
- Due to security concerns arising from online payment and considering that the demographic this system caters to prefers cash on delivery, we are not implementing online payment.
- Development team is not responsible for any security breaches or security constraints applied to the firebase.
- Customers will not have access to any of the administrator's pages. However, in case of breach in the admin side by a customer due to weak password, the development team is not responsible.

3.3 Architectural strategies

Front-end:

For our front-end framework, we will be using CSS, HTML, reactJS library and the Bootstrap library.



We will use React mainly for the following reasons:

- We want the system pages to be dynamic. Using reactJS will help us create single page applications so that when the customer clicks on a product, they can look at it in quick view without having to refresh the page. This will reduce server side communication and provide the end user with a better shopping experience.
- Since we are constrained by time, learning React will be much easier to learn and implement than other frameworks and libraries.

- ReactJS is more focused on user interfaces as compared to other frameworks and libraries. It provides highly responsive user interfaces which in turn reduce the load time. Responsiveness is very important for functionalities such as shopping carts.
- It is simpler as compared to other user interface frameworks. Keeping in mind that the system might be managed by someone else in the future, ensuring a maintainable system is very important.

We will be using bootstrap library for basic interface styling mainly due to the following reasons:

- Bootstrap has some inbuilt classes that make a desktop system phone or tablet friendly. Using these classes will help us optimize the website for phone and tablet use. For example, Bootstrap allows classes that can easily convert a toolbar on a desktop to a dropdown menu for phones or tablets.
- The online shopping system requires browsing through different articles. To make for a better user experience, bootstrap has inbuilt libraries that help making carousels easy.

Backend:



For the backend, we will be using firebase mainly for the following reasons:

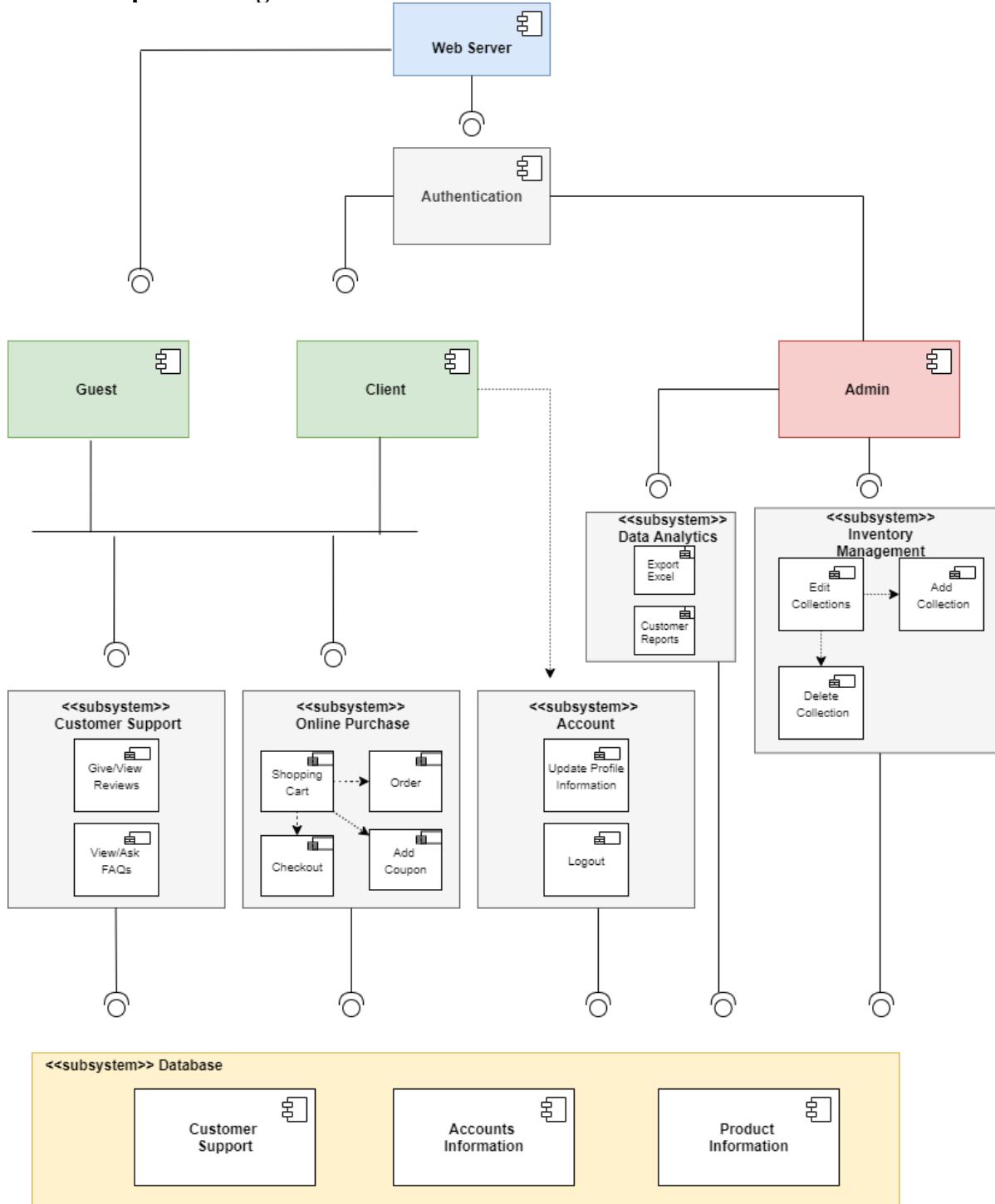
- Firebase comes with Google's own analytics platforms with it. This enables analyzing and interrogating how users are arriving, using and experiencing the system.
- Firebase is scalable. So, if the client's data limits exceed, the client can always upgrade to one of its plans without having to change the entire backend setup.
- Firebase comes with a powerful security system that allows secure client-side apps without needing any server side code to set data boundaries. Users can be managed securely using google or Facebook authentication, or we can build our own authentication interface.

- Firebase allows sharing of any user generated content such as reviews which are important for the online shopping system.
- Cloud firestone: this feature allows to store and sync data across devices. This means that the user will be recognized when they return to the store; their shopping carts will remain intact.
- Firebase provides a real time database. This means that any change in the database is instantly visible to the front-end user. This is an important functionality since the client wants to be able to add, remove and display discounts on products.

4 System Architecture

4.1 System Architecture

UML Component Diagram:

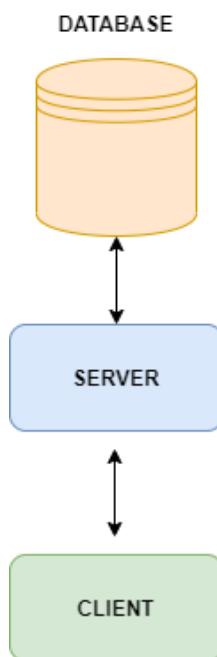


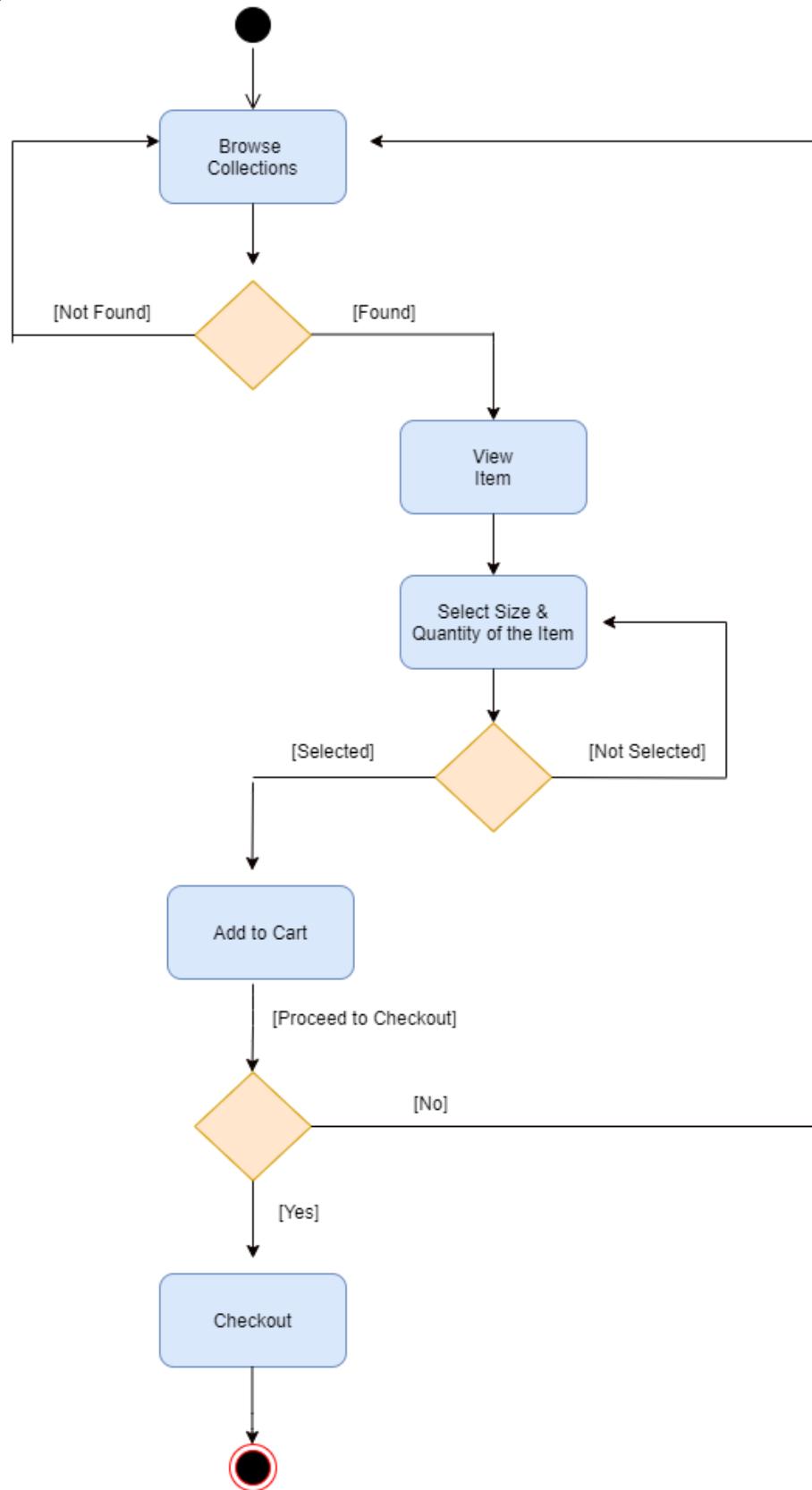
Rationale:

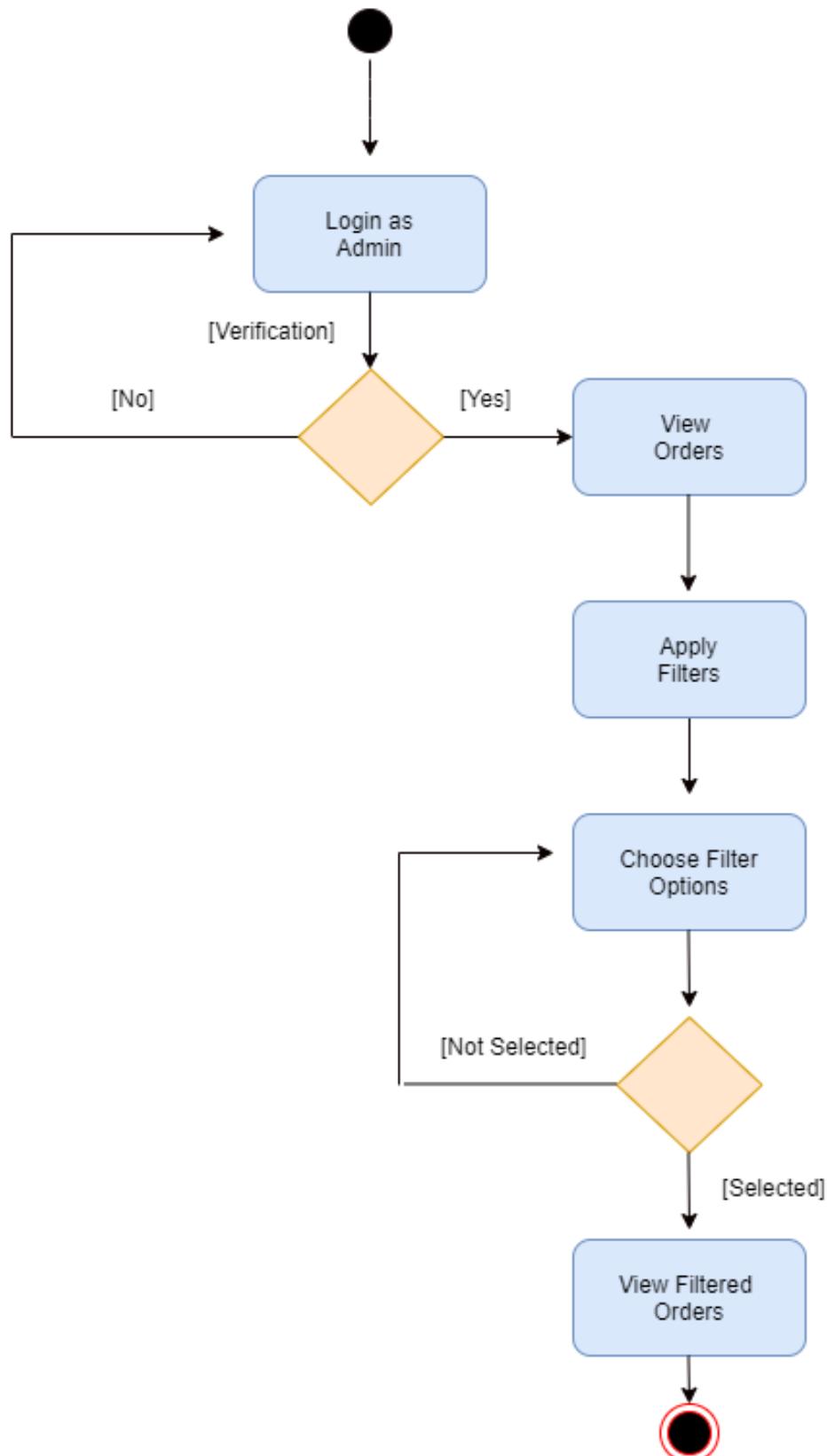
The UML component diagram shown above is divided into subsystems and components which highlights their relationships with each other. The web browser (Google, Firefox, Safari) will be used to access the website. The next step will be authentication. The customer can choose to create an account or continue as the guest. These interactions are shown by abstracting away the details of the authentication and representing it as a component. Following the authentication, the client homepage appears in which the three main actions supported are represented as subsystems. It made more sense to represent online purchase, customer support and account as subsystems since they represent the high-level view of different components within it. For example, in the online purchase subsystem, Order, Checkout and Add Coupon are components dependent on the Shopping Cart which means that the user needs to be accessing the shopping cart for the other three components to take place. Together, they represent a subsystem. Similarly, the admin component can access the two subsystems namely, data analytics and inventory management. Note that all of the use cases are not being represented here as the similar and related ones are abstracted away under the heading of a component/subsystem. For example, the use cases relating to terms and conditions and send message queries will be under the subsystem represented by ‘Customer Support’. Finally, the database is represented as a subsystem with three main components. These components denote the related tables in the actual database. Common examples of component diagrams do not show the database or the web server, however, it has been included here as it makes the flow of the diagram clearer.

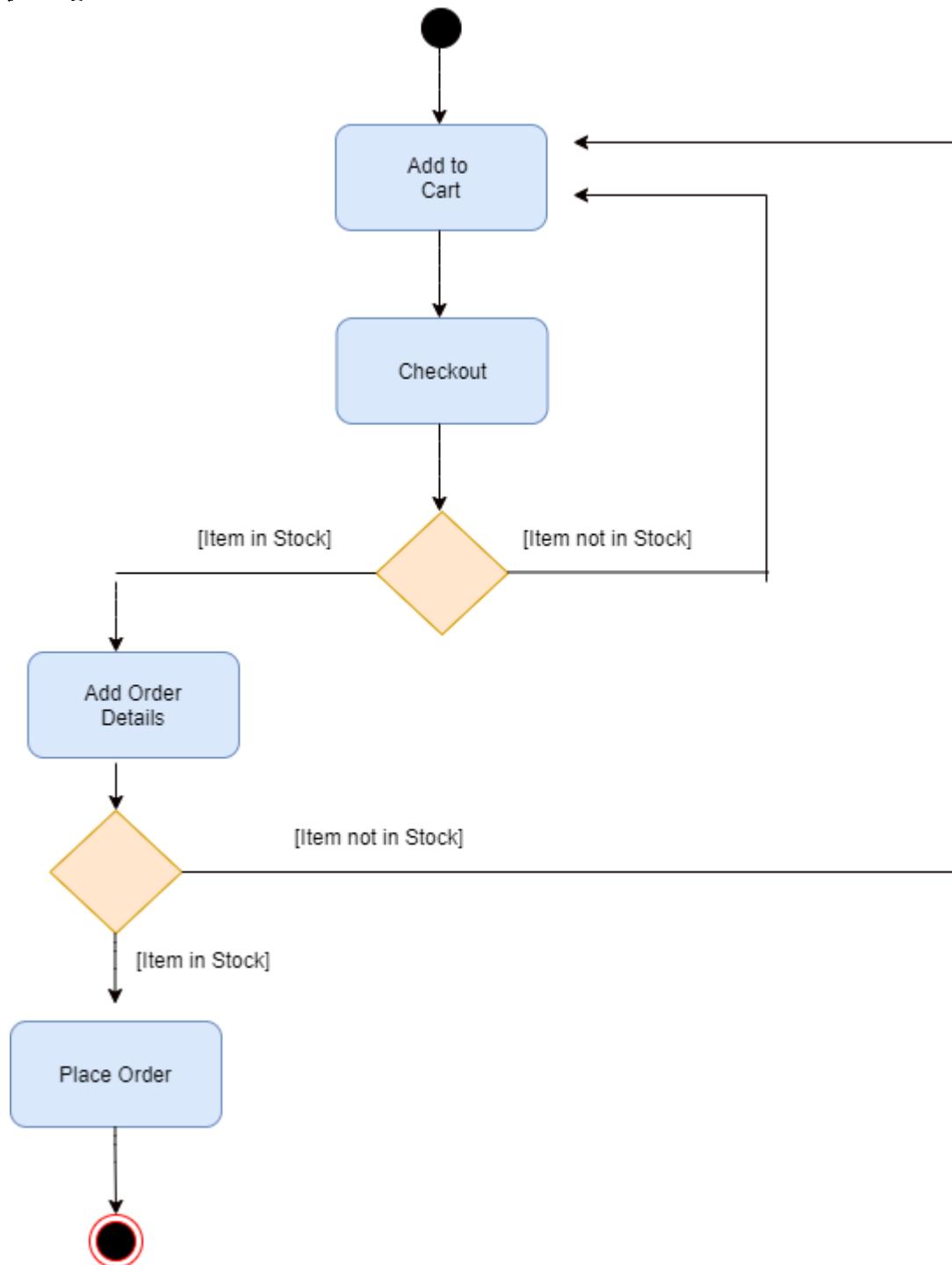
Design Pattern

The system under discussion i.e., online shopping website, follows the MVC (Model View Controller) Architecture. It would be 3-tier architecture consisting of a client, server, and a Database Server. A simplified version of the 3-tier architecture is shown in the diagram below:



Activity Diagram: Add to Cart

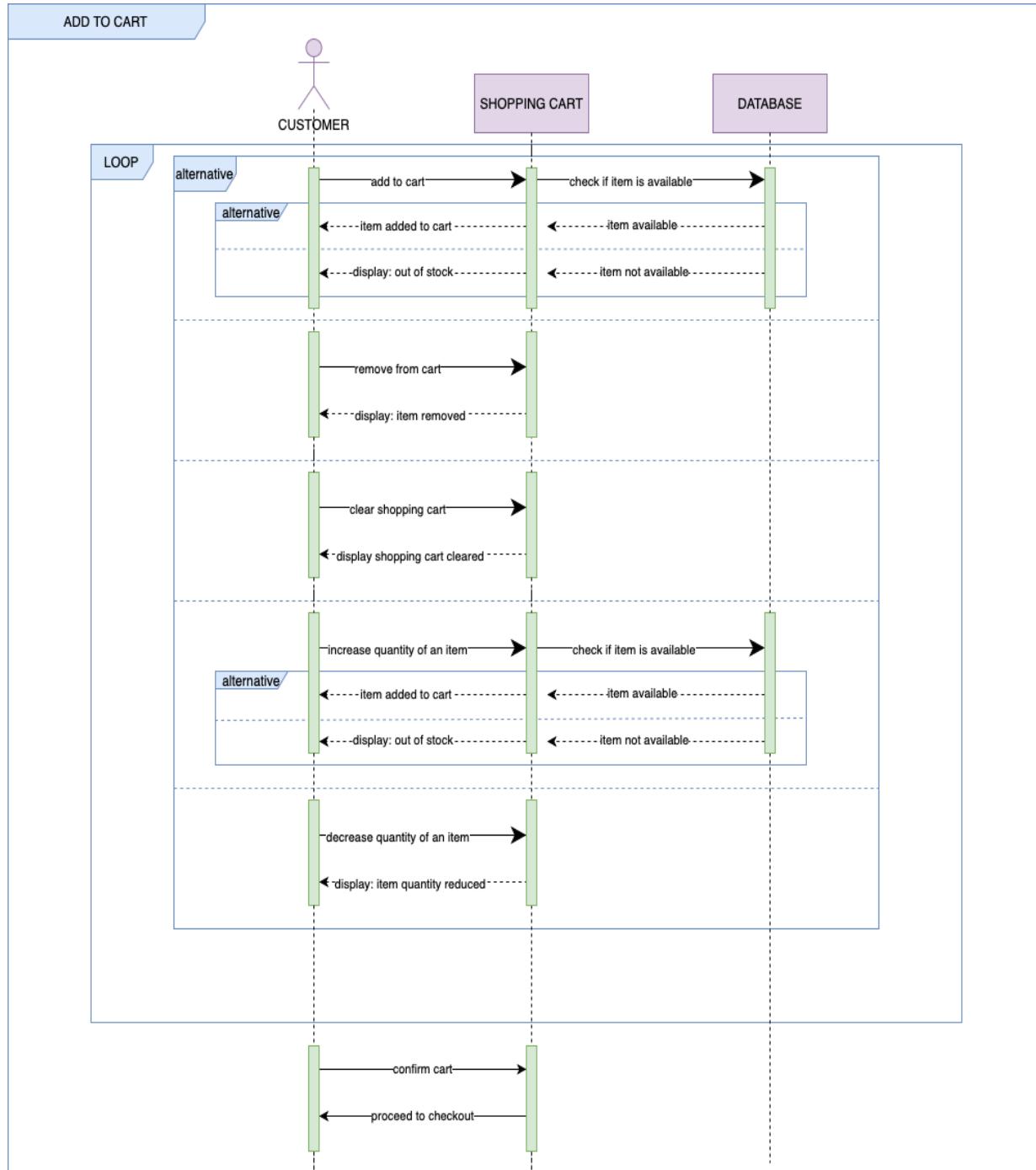
Activity Diagram: View Orders

Activity Diagram: Checkout

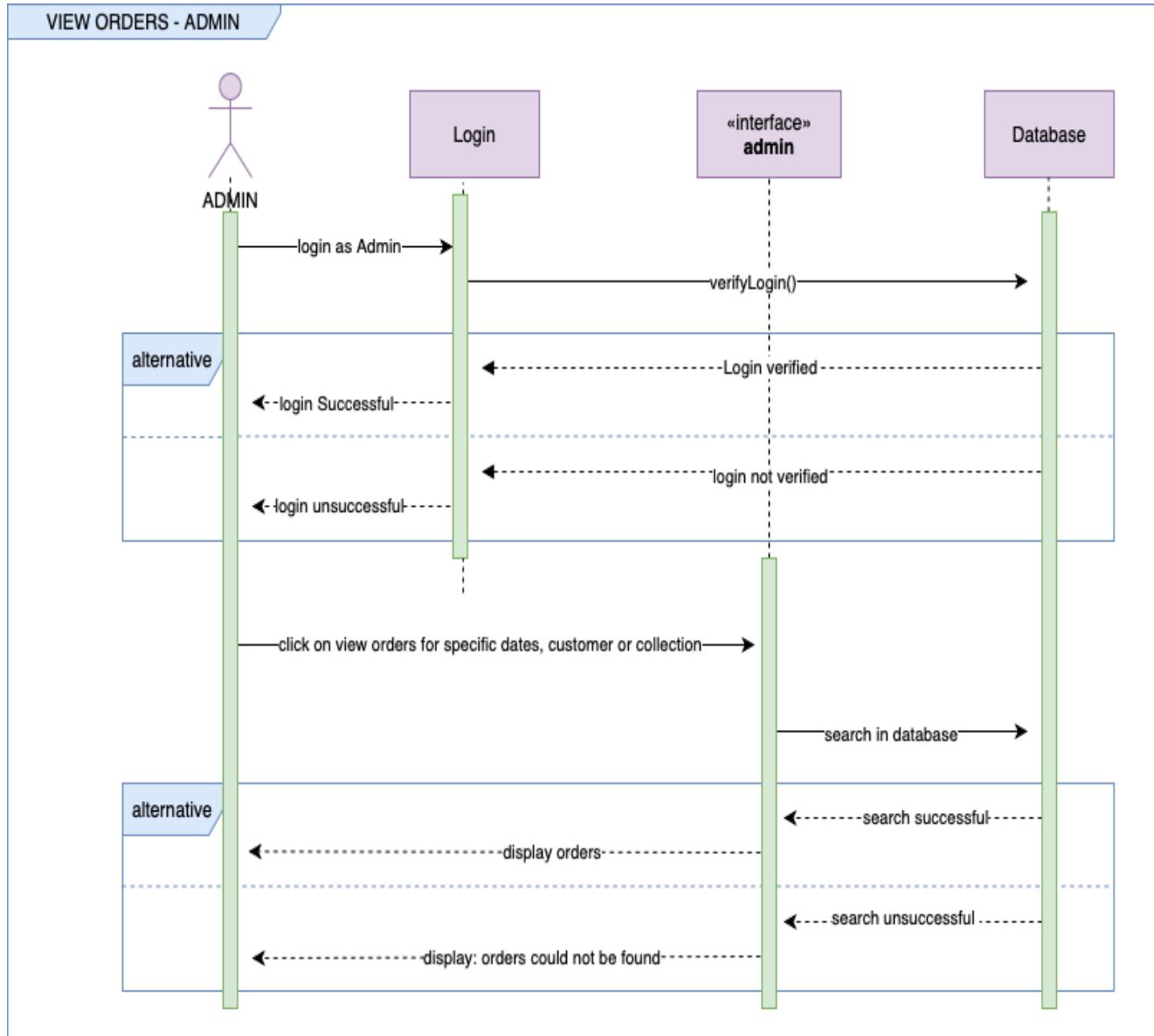
4.2 Subsystem Architecture

Sequence diagram: Add to Cart

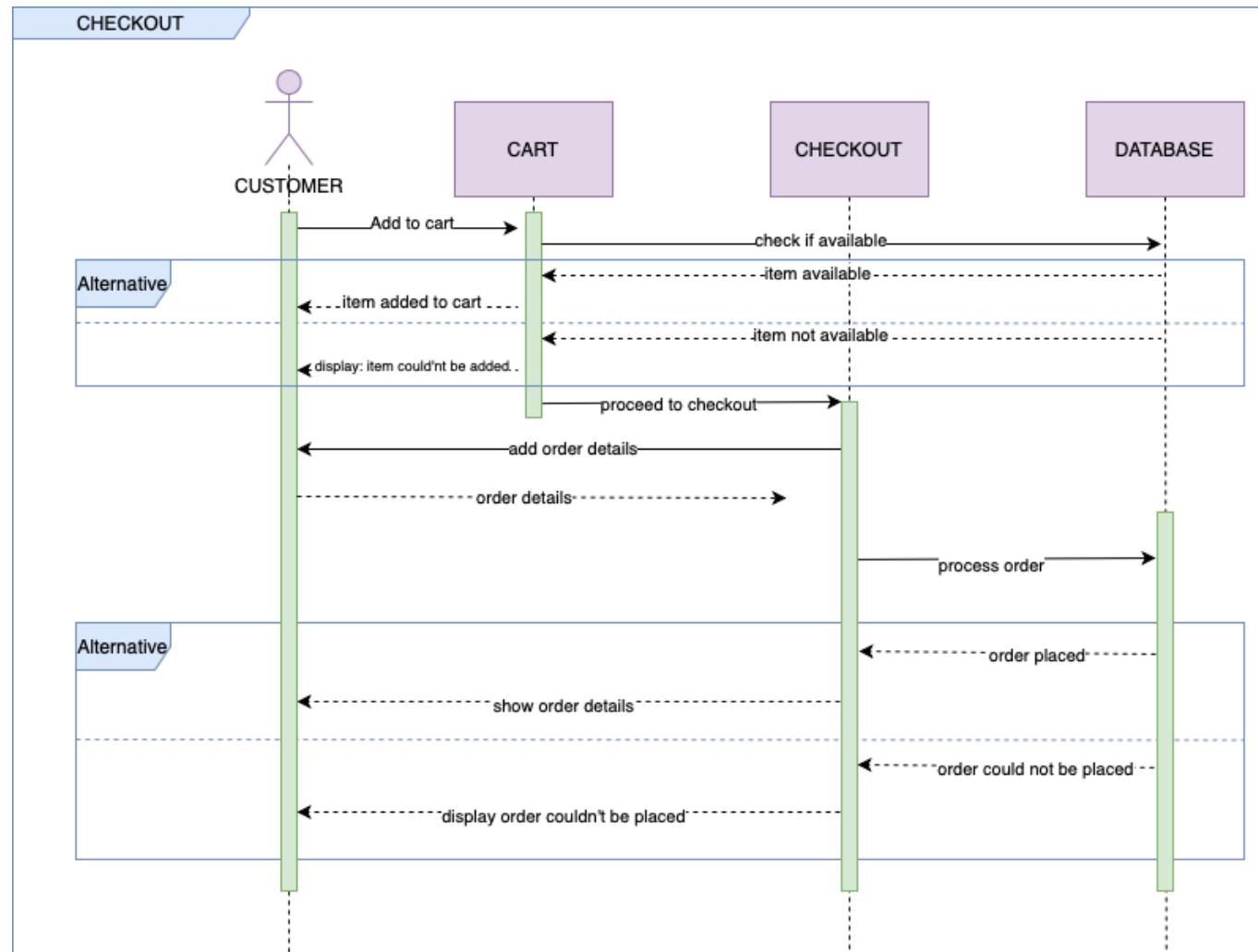
This sequence diagram covers not only the users ability to add items to cart, but also other functionalities of the cart system such as adding items, removing items, and proceeding to checkout. The loop refers to the dynamic loading of the page so that the customer can repeatedly edit the cart.



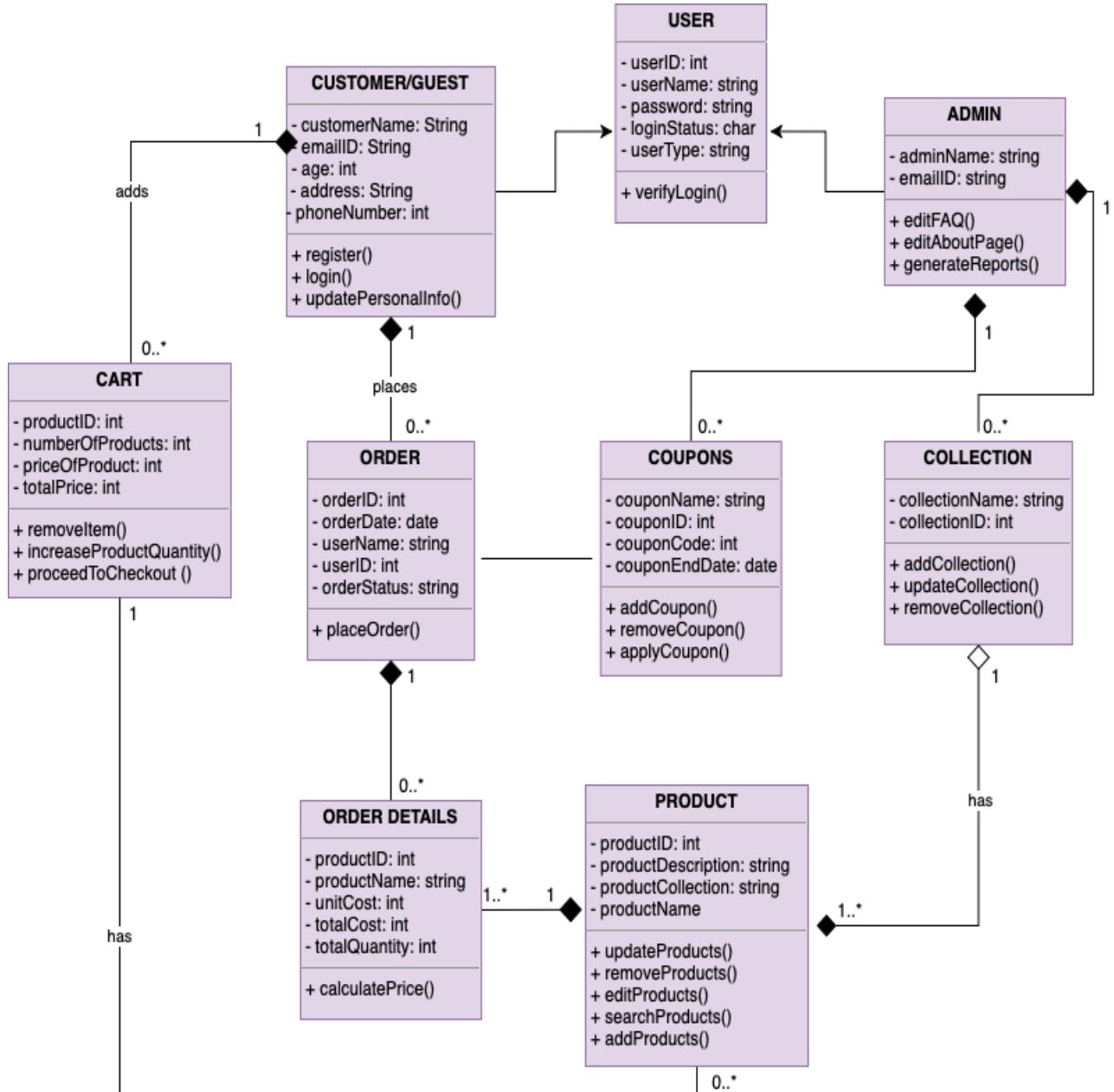
Activity Diagram: View Orders



Activity Diagram: Checkout



Class diagram:



4.3

4.4 Data Structure

<A description of all data structures including internal, global, and temporary data structures.

4.3.1 Internal software data structure

Data structures that are passed among components of the software are described.

4.3.2 Global data structure

Data structures that are available to major portions of the architecture are described.

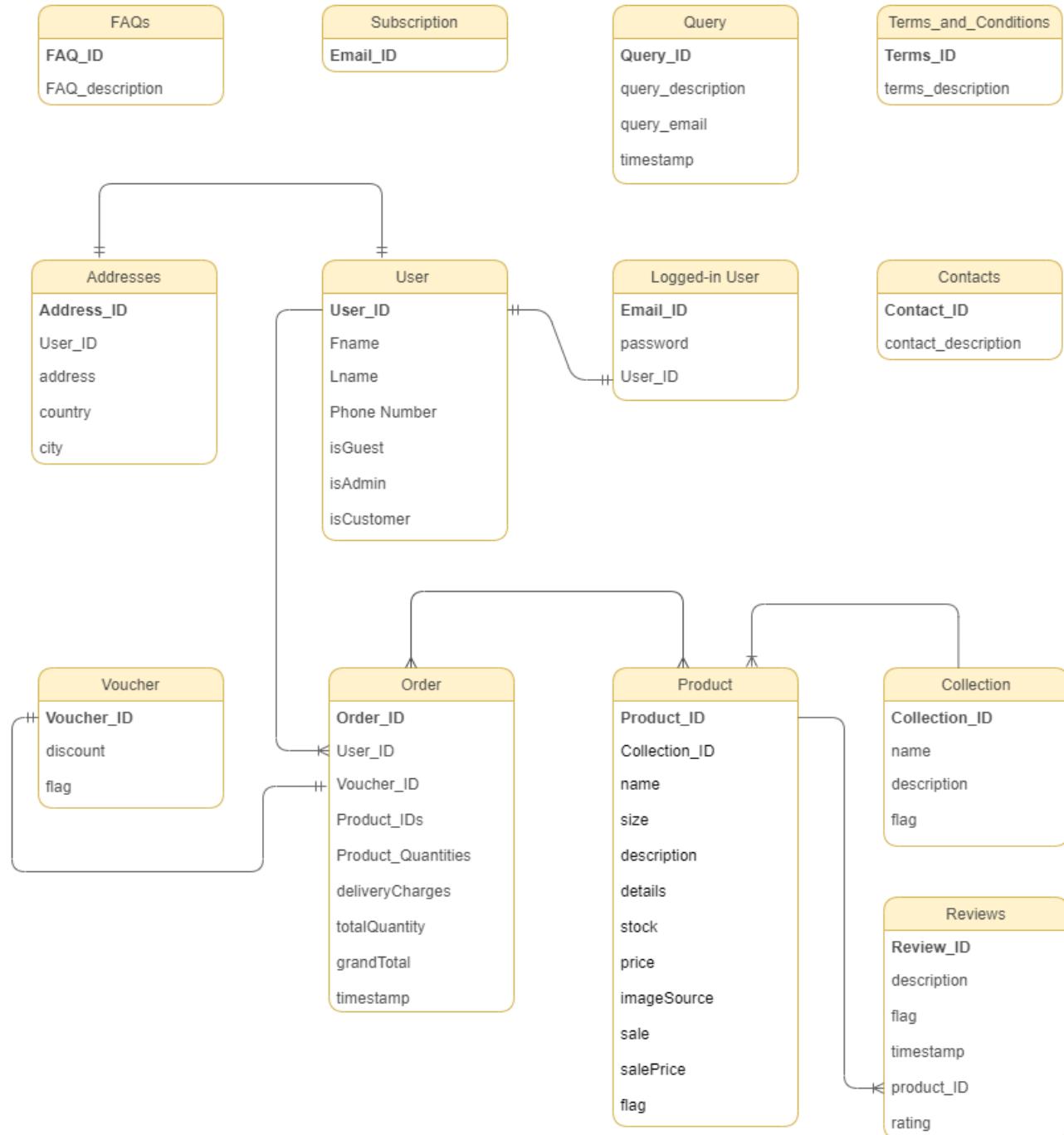
4.3.3 Temporary data structure

Files created for interim use are described.

>

4.5 Database Model

4.5.1 Database scheme and detailed description



User Table:

The user table will store the first name and the last name of all types of users (admin, logged in customer, and guest). It will also contain three Boolean variables which will be used to distinguish the nature of the users. The user ID will be used as a primary key.

Title	Data type	Description
User ID	String	A standard will be set, and the ID's will be set according to that standard. The user ID will be generated automatically.
Fname	String	First name of the user.
Lname	String	Last name of the user.
Phone number	String	Phone number of the user.
isAdmin	Bool	A Boolean variable which will be 1 if the user is an admin and 0 if not an admin.
isCustomer	Bool	A Boolean variable which will be 1 if the user is a customer (logged in customer) and 0 if not.
isGuest	Bool	A Boolean variable which will be 1 if the user is a guest customer and 0 otherwise.

Logged-in User Table:

The Logged-in User table will contain the credentials of the admin(s) and the customers that have an account. The credentials will include their email and password. User ID will be used to distinguish the admins first name, last name, phone number and the type of the user from the user table. Email ID's will always be unique in this table.

Title	Data type	Description
Email ID	String	Email ID of the user.
Password	String	Password of the user account.
User ID	String	User ID will be used as a foreign key and will be used to distinguish the Admins first and last name.

Address Table:

The Address table will contain details of the address of the guest and logged in customers. These details will include the address, city, postal code, and country. Address ID will be used as the primary key and will always be unique. The user ID will be used as the foreign key which will be used to distinguish that which user has the corresponding address.

Title	Data Type	Description
Address ID	String	A standard will be set and the ID's will be set according to that standard. The ID's will be generated automatically.
User ID	String	User ID will be used as a foreign key and will be used to distinguish that the address belongs to which user.
City	String	Name of the city where the user lives.
Country	String	Name of the country where the user lives.
Address	String	Address details such as the street number and house number.

Order Table:

The Order table will contain the order details of the customers. The order details will consist of the IDs of the products that the user is buying along with their quantities respectively. It will also consist of the total quantity, grand total and the time at which the order took place. Voucher ID will also be present if the user enters a valid voucher ID, which will result in a discount in the grand total. User ID will be used to distinguish that the order belongs to what user and what their address is.

Title	Data Type	Description
Order ID	String	A standard will be set and the ID's will be set according to that standard. The ID's will be generated automatically.
User ID	String	User ID will be used as the foreign key and will be used to distinguish that the order belongs to which user.
Voucher ID	String	Voucher ID will be present only if the user enters a voucher code, and it will be further used to compute the discount.
Product ID	Array of Strings	An array of product ID's will be present of the products which the user is buying.
Product Quantity	Array of Int's	An array of the quantities corresponding to the product IDs will be present of the products which the user is buying.
Delivery Charges	Int	This will contain the charges for delivery of the order.
Total Quantity	Int	This will contain the total quantity of the products the user is buying.

Grand Total	Int	This will contain the total price of the product(s) which the user is buying.
Timestamp	Date and Time	This will store the exact time of the transaction.

Product Table:

The Product table will contain the information related to the products. A certain product will belong to a certain collection, for which the collection ID will be used. Information like the name, size, description, price, stock, image source, sizes available and their quantity. The image source will contain the links of the images related to this product which will be used to fetch the images on the web application. The Boolean variable, sale, will be used to conduct sales on the products, while the sale price will be the amount of discount which will be given to the users. The flag will be used to enable the archive functionality which the admin has control over.

Title	Data Type	Description
Product ID	String	A standard will be set, and the ID's will be set according to that standard. The ID's will be generated automatically.
Collection ID	String	This will be used to distinguish which collection this product belongs to.
Name	String	This will contain the name of the product.
Size	Array of Ints	This array will contain the sizes available for the product.
Description	Strings	This will contain the description of the product.
Details	String	This will contain the details of the product, for example, the cloth used etc.

Stock	Array of Ints	This array will contain the quantity of the products with respect to their sizes.
Price	Int	This will contain the price of the product.
Image Source	Array of Strings	An array of the image sources will be present which will be used to fetch the pictures of the product on the web-application.
Sale	Bool	A Boolean variable which will be 1 if there is sale on this product and 0 otherwise.
Sale Price	Int	This will contain the discount on the product in the case of a sale on this product.
Flag	Bool	A Boolean variable which will be 1 if the admin wants to show the product on the website, and 0 if the product is archived by the admin.

Collection Table:

The collection table will contain the information regarding the collection. It will save the name of the collection and its description. The collection ID will be unique for each collection and the flag will be set accordingly to implement the archive functionality.

Title	Data Type	Description
Collection ID	String	A standard will be set and the ID's will be set according to that standard. The ID's will be generated automatically.
Name	String	This will contain the name of the collection.

Description	String	This will contain the description of the collection.
Flag	Bool	A Boolean variable which will be 1 if the admin wants to show the collection on the website, and 0 if the collection is archived by the admin.

Reviews Table:

The Review table will consist of the ratings and the written reviews (optional) which the user gave for a certain product (product ID will be saved along with the rating). Timestamp will save the time of the review and the flag will be used by the admin to block reviews that may be against the policies of the Brand, Kahanian.

Title	Data Type	Description
Review ID	String	A standard will be set, and the ID's will be set according to that standard. The ID's will be generated automatically.
Rating	Int	This will contain the rating that the user gave. The ratings will always be between 0 and 5.
Description	String	This will contain the review, which will be optional.
Flag	Bool	A Boolean variable which will be 0 if the admin has blocked this review and 1 otherwise.
Timestamp	Date and Time	This will contain the time of the review.
Product ID	String	This will be used to determine that the review is for which product.

Voucher Table:

The voucher table will contain the voucher details. The vouchers will only be valid if the flag is set to 1 and the discount corresponding to the voucher will be saved in the discount field.

Title	Data Type	Description
Voucher ID	String	A standard will be set, and the ID's will be set according to that standard. The ID's will be generated automatically.
Discount	Int	This will contain the discount that will be given with this voucher.
Flag	Bool	A Boolean variable which will be 1 if the voucher is valid and 0 otherwise.

FAQs Table:

The Frequently asked questions will be saved in this table.

Title	Data Type	Description
FAQ ID	String	A standard will be set and the ID's will be set according to that standard.
Description	String	This will contain the description of one out of all the FAQ's.

Terms and Conditions Table:

The terms and conditions will be saved in this field.

Title	Data Type	Description
Terms ID	String	A standard will be set and the ID's will be set according to that standard.
Description	String	This will contain the terms and conditions.

Contacts Table:

Contact details will be saved in this table.

Title	Data Type	Description
Contacts ID	String	A standard will be set and the ID's will be set according to that standard.
Description	String	This will contain the description of the contact details.

Subscription Table:

The emails of the users who have subscribed to the brands newsletter will be saved in this table.

Title	Data Type	Description
Email	String	This will contain the email of the users that have subscribed to the brands newsletter.

Query Table:

This table will contain the query of a user and their email ID to which the admin will reply.

Title	Data Type	Description
Query ID	String	A standard will be set and the ID's will be set according to that standard. The ID's will be generated automatically.
Email	Int	This will contain the email of the user who is asking a question.
Query text	String	This will contain the question that the user wants to ask.
Timestamp	Date and Time	This will contain the time when the query was posted.

4.5.2 Database

We will be using Firebase as the database for the Web-Application. Firebase is a google backend application development software which is used by developers to develop iOS, Android and Web Applications. It will be a real time database which will not require setting up a server. It was chosen because of the reasons below:

- **Performance:** Configuring firebase is quick. It can be assembled approximately twice as quickly as a python backend. Since it is real time, whatever data is changed in the database, it changes the clients in real time. Along with that firebase also allows performance monitoring to measure performance from the user perspective.
- **Security:** Firebase provides access control and data validation in a format that supports multiple levels of complexity. Security can be ensured by a set of server-side rules which the developers can write easily. Security rules along with firebases' integrated authentication can be used together to make the Web-Application secure.
- **Scalability:** Scaling is automatic in firebase. Whenever there is a change in data, firebase will calculate the minimum set of updates to keep all the users synchronized. The API functions are designed in such a way that they scale linearly with the size of the data being synchronized. The application can scale from its first user to its first million users without any change in the code.

- **Infrastructure:** With firebase there is no need for servers, or SSL certificates, setting up proxies and databases or path vulnerabilities. The data is stored in the form of different numbers of documents that may be linked in a tree like form, or some may not be linked.

4.6 External Interface Requirements

4.6.1 User Interfaces

Kahanian will have a graphical user interface (GUI) and since it is a web-based application, it will be fully available to use on any device provided it has an internet connection and a browser. The interface will be simple to use and will be totally in English language. The 3 main webpages will be:

1. Home page
2. Admin home page
3. Customer home page

All the webpages will be consistent and will have a proper user dashboard consisting of tabs, and other icons to make the website simple for all types of users. The icons used will be globally recognized and the font used will be large and easy to read. The buttons will be colored and large with prominent text. The color scheme will be light (grey, white and black) and consistent in all the pages. High-definition pictures of the products will be used throughout. A wide footer will be implemented to make the pages more attractive, while making them user friendly at the same time.

4.6.2 Hardware Interfaces

Kahanian's web-application will not have any designated hardware, hence, it directly does not have any hardware interfaces. However, there will be some basic requirements which need to be fulfilled in order for the user to use the web application. Those requirements are:

- A good internet connection is required to use the web application.
- A web browser is required to access the web application.
- To access the web application, the user can be on any operating system (like Windows, MacOS, and Linux) which has a web browser.

5 User Interface Design

5.1 Description of the user interface

React - HTML - CSS and Bootstrap Library:

We will be using these technologies for the development of the frontend of the web application. We will be using React since it is more focused on the user interface and will allow us to build highly responsive web pages which will be useful for our web application. Using react we can also create single page applications, which will favor the user experience. We will be using some of the bootstrap libraries for some interface styling since it has some inbuilt classes for optimizing the web application according to the screen size of the user's device. Similarly, using bootstraps in build libraries, we will be enhancing the user experience by making their online shopping experience a better and a simpler one.

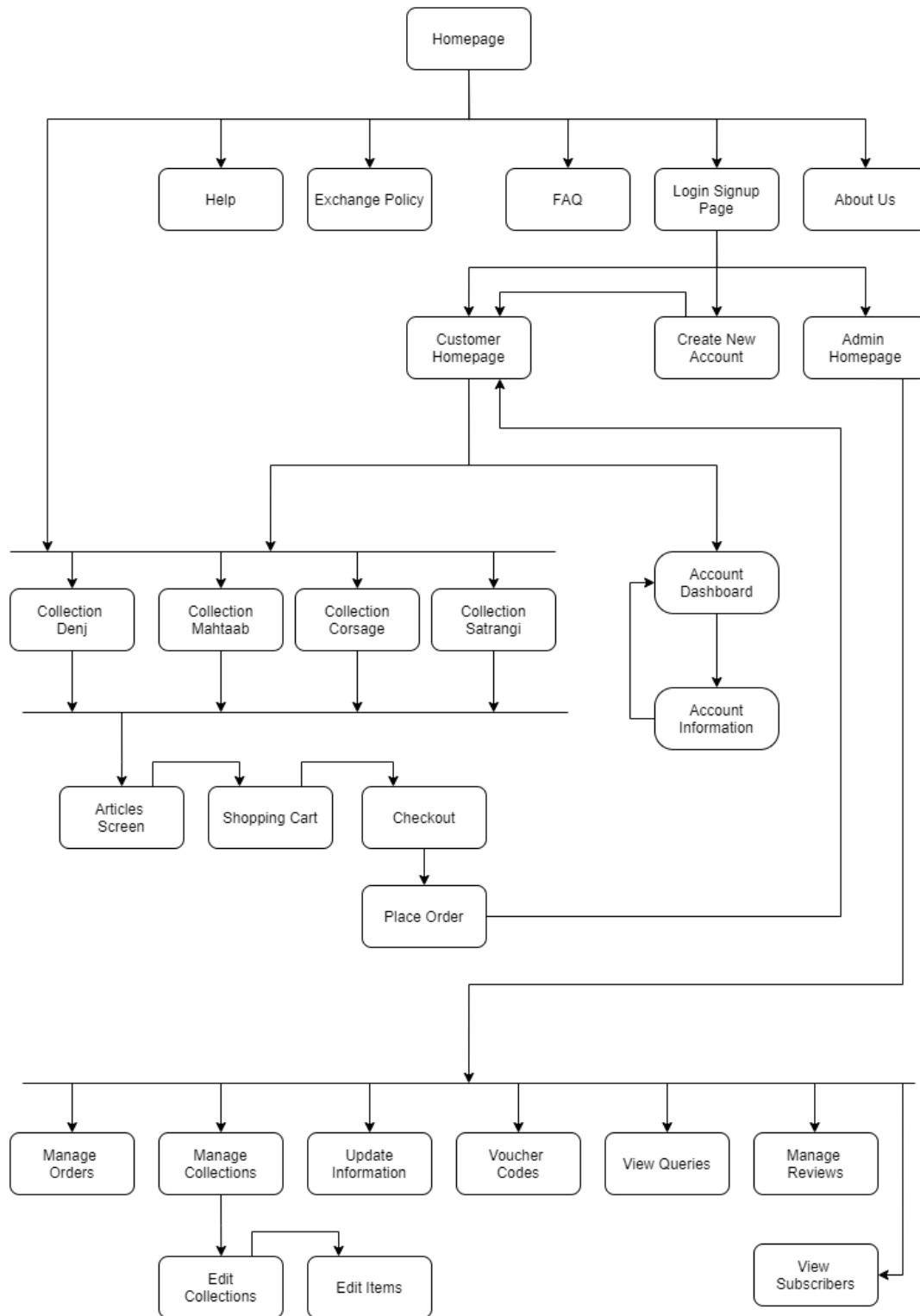
Visual Studio Code

We will be using Visual Studio Code as an editor. VScode takes less storage and RAM and will not affect the performance of our processors. It has built in support for the React and has great tooling for it. We can also customize it the way we want to by using extensions. This will ensure the code quality and will make it easier for the development team to maintain coding standards. Visual studio code also includes a public extensibility model that will let us build and use extensions and customize our edit-build-debug experience.

5.2 Information architecture

The following diagram contains the sequence of the screens. The screens are labelled according to their names and are further explained in section 5.3 along with the design of the screens. Kahanian's system architecture can be defined as a broad and shallow architecture since this was one of the client's requirements. The system is shallow, and the use of dashboards make it simpler for the user and lets them access them, almost everything, from the homepage.

(Accompanying diagram on next page)



5.3 Screens

Our screens can be divided into three main categories:

- Common Interface: This part of the website would be utilized by both admin and customer, irrespective of their purpose of using the website.
 - Customer Interface: This would be the part of the website specifically used by the customers of the business.
 - Admin Interface: This part of the website would only be accessible to admins once they login. It will be used by the admin to handle what data is displayed on the customer side of the website.
1. Common Interface
 - 1.1. Homepage
 - 1.2. Login
 2. Customer Interface
 - 2.1. Sign Up
 - 2.2. Profile Information
 - 2.3. Browse Collections
 - 2.4. Place Order
 - 2.5. Customer Support
 3. Admin Interface
 - 3.1. Admin Page
 - 3.2. Manage Collections
 - 3.3. Manage Orders
 - 3.4. Update Information
 - 3.5. View Queries
 - 3.6. Miscellaneous

Note: we first describe the UI elements that are applicable on all pages on the website. We then display all screens, and with each we address the goal of that screen, the use cases it corresponds to and UI of that screen.

General UI elements applicable on all pages:

Paths: To give the user control over navigating through the website, a path is displayed where each page name is clickable so that the user is able to easily navigate to that page. If the user would hover over a page name, that page name would become underlined so that the user knows it is clickable. The page that the user is currently situated on is also differentiated in color from the rest for the user's ease in understanding which page they are on.

(Incomplete page shown in images)



1.1 Homepage

Goal: It is the landing page for our system

Corresponding Use Case: None

UI:

It consists of:

- It is a scrollable page that features a carousel that shows products from the newest collections.
- The header consists of the logo and the four most recent collections by the client. Upon clicking on the 'OUR COLLECTIONS' button, a dropdown menu will show all of the collections produced by the client.
- The header also contains an icon for the shopping cart which redirects to the shopping card page.
- The header includes a profile icon that upon clicking shows a dropdown menu. If the user is logged in, the dropdown menu will show a button to redirect to the dashboard and in case they are not logged in, it will show an option for login or signup.
- Scrolling a little down the page shows images for the newest collections and upon clicking on the image the customer will be taken to that collection page.
- The same footer is present throughout the system. It contains:
 - Icons that will redirect the user to about us and the FAQ page.

- A need help icon. Upon clicking on this icon a small popup will appear in which the user can write their queries which can then be answered by the client.
- A text box in which the customer can add their email for newsletter subscription.
- Handles for all the social media pages of the brand.

(Screen on next page)

(Homepage)

The screenshot displays the homepage of the Kahanian website. At the top, the brand logo "KAHANIAN" is shown with the tagline "NARRATE YOUR STYLE". The navigation bar includes links for DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. A shopping cart icon with the number 8 is also present.

A large banner image features a woman in a black dress with gold embroidery, resting her head on her hand. The text "MAHTAAB" is displayed above the banner, with a "SHOP NOW" button below it.

Below the banner, a section titled "Shop by Collections" shows four thumbnail images representing different collections: MAHTAAB (a woman in a maroon dress), DENJ (a woman in a blue dress), CORSAGE (a woman in a pink dress), and SATRANGI (a woman in a black dress).

The central part of the page contains a quote: "Weaving pure threads into contemporary silhouettes to narrate the identity of free spirited, modern woman." To the right of the quote are several smaller images showcasing various outfit styles.

At the bottom, there are three circular icons with accompanying text: "About Us" (hanger icon), "FAQs" (question mark icon), and "Need Help?" (speech bubble icon). Below these are sections for "Get in Touch" (with email and social media links), "Customer Care" (with Exchange Policy, FAQ's, and About Us links), and "Newsletter Signup" (with a subscribe form).

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1.2 Login

Goal: The user can either login by entering the credentials or click the “Create an account” button to land on signup page.

Corresponding Use Case: Login

UI:

Upon clicking the profile icon, if the user is not signed in, the dropdown menu will show an option to login or signup. Upon clicking that option, the customer will be redirected to this page.

- If the user already has an account, they can add their email address and phone number to sign in. Upon successfully signing in, the user will be redirected to the homepage.
- If the user is a new guest, clicking on the create an account will redirect them to the sign-up page.

(Login)

2.1 Sign Up

Goal: A new user can create his/her account

Corresponding Use Case: Sign Up

UI:

After clicking the create an account button on the Login/ signup page, the user will be redirected to this page. This page consists of text boxes in which the customer will add their personal information. Once the user has entered their information, the user can click on create an account page. Upon successful creation of the account, the user will be redirected to the homepage.

(Signup)

KAHANIAN
NARRATE YOUR STYLE

DENJ MAHTAAB CORSAGE SATRANGI OUR COLLECTIONS

HOMEPAGE / SIGN UP

Create New Customer Account

Personal Information First Name <input type="text"/> Last name <input type="text"/>	Sign-in Information Email <input type="text"/> Password <input type="text"/> Confirm Password <input type="text"/>
--	--

CREATE AN ACCOUNT

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2.2 Profile Information

2.2.1. Account Dashboard

Goal: Once logged in, user should be able to see his/her personal information.

Corresponding Use Case: None

UI:

Once the user is signed in, clicking on the profile icon opens the dropdown message which contains the dashboard option. Upon clicking on this option, the user is led to the dashboard page. The dashboard page contains personal information of the customer.

(Account Dashboard)

2.2.2. Account Info

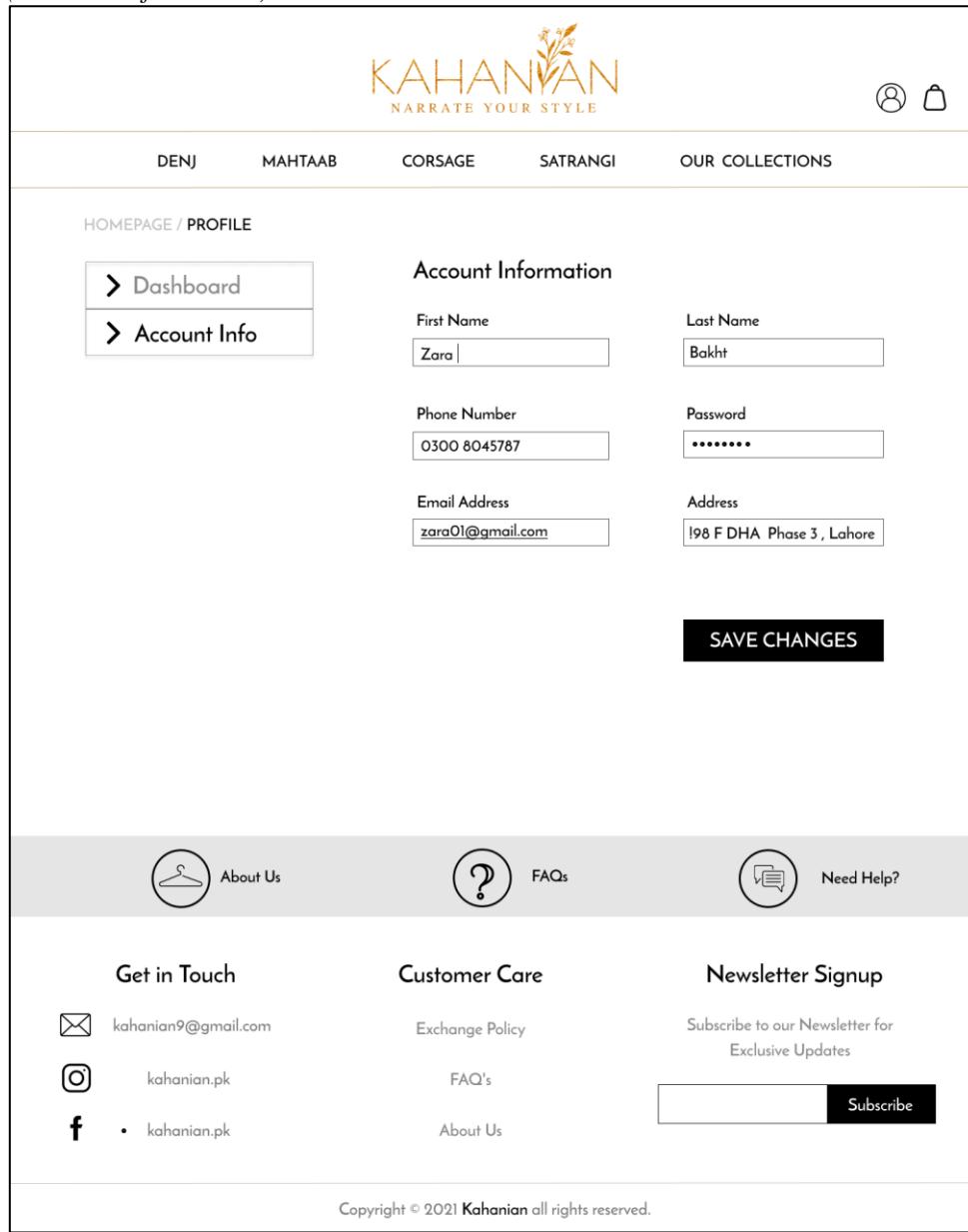
Goal: To enable users to edit their personal information

Corresponding Use Case: Update Personal Information

UI:

The dashboard will have a sidebar menu that contains two options, the dashboard and the account info option. The dashboard option opens the personal information of the user (screen 2.2.1) , while the account info page shows the account information. On this the user can edit personal information and clicking on the save changes button will change and add this new information to the database.

(Account Information)



The screenshot shows the 'Account Information' page of the Kahanian website. At the top, there is a navigation bar with links for DENJ, MAHTaab, CORSAGE, SATRANGI, and OUR COLLECTIONS. Below the navigation bar, a sidebar on the left shows 'HOMEPAGE / PROFILE' with options for 'Dashboard' and 'Account Info'. The main content area is titled 'Account Information' and contains fields for First Name (Zara), Last Name (Bakht), Phone Number (0300 8045787), Password (*****), Email Address (zara01@gmail.com), and Address (198 F DHA Phase 3, Lahore). A large 'SAVE CHANGES' button is located at the bottom of the form. At the bottom of the page, there is a footer with links for 'About Us', 'FAQs', and 'Need Help?'. The footer also includes sections for 'Get in Touch' (with icons for email, Instagram, and Facebook), 'Customer Care' (with links for Exchange Policy, FAQ's, and About Us), and 'Newsletter Signup' (with a subscribe form).

First Name	Last Name
Zara	Bakht

Phone Number	Password
0300 8045787	*****

Email Address	Address
zara01@gmail.com	198 F DHA Phase 3, Lahore

2.3 Browse Collections

2.3.1. Collections Screen

Goal: The customers will be able to see all the articles of the collection they have selected

Corresponding Use Case: None

UI:

Upon clicking on one of the collections in the header, the collection page for the respective collection will open. The collection page includes:

- Description about the collection
- Features all the items in the collections. Each row will display three items.
- Clicking on any of the articles will redirect to that specific article's page.

(Collections screens on next page)

(Collection Denj: this screen also illustrates the dropdown when user hovers over 'Our Collections')

KAHANIAN
NARRATE YOUR STYLE

DENJ MAHTAAB CORSAGE SATRANGI OUR COLLECTIONS

DENJ MAHTAAB CORSAGE SATRANGI Eid Volume 1

GUL CARNATION MAHGUL CHAANDNI Eid Volume 2

HOME PAGE / DENJ

DENJ

Featuring a regal color palette and sophisticated embroidery on Khadar fabric to keep you warm and ensure that you keep turning heads wherever you go. Explore Denj and shop your favorite picks from our hand curated ensembles.

Green
2 Piece
Rs. 4550

Skin
3 Piece
Rs. 4250

Yellow
3 Piece
Rs. 4950

Blue
2 Piece
Rs. 4550

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kahanian.pk

kahanian.pk

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[Exchange Policy](#)

[FAQ's](#)

[Glossary](#)

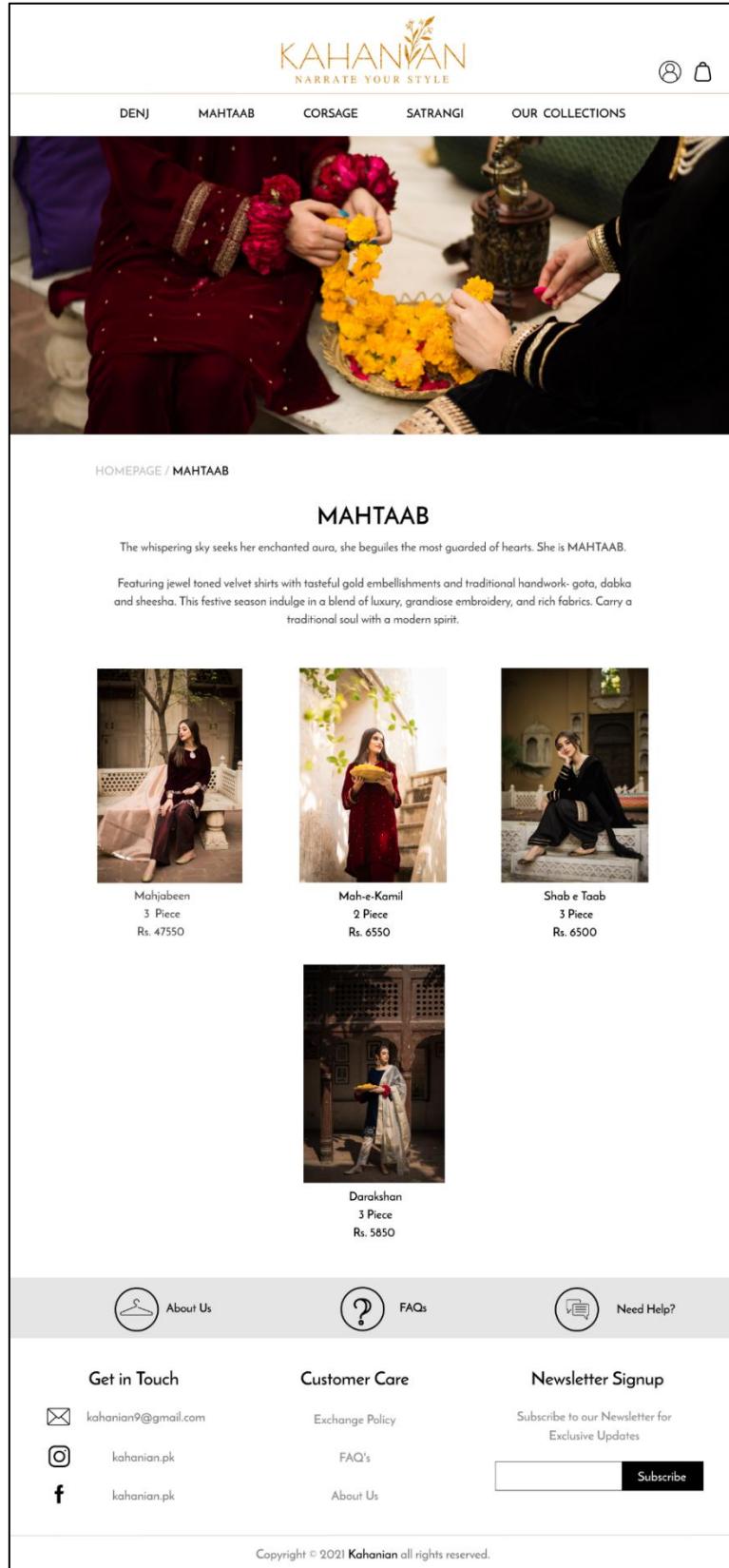
Newsletter Signup

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(Collection Mahtaab)



The screenshot shows the Kahanian website's homepage for the "MAHTAAB" collection. At the top, there is a navigation bar with links for DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. There are also icons for a shopping bag and a user profile. Below the navigation is a large image showing two people, one in a red velvet outfit and another in a black outfit, arranging yellow marigold garlands in a basket.

MAHTAAB

The whispering sky seeks her enchanted aura, she beguiles the most guarded of hearts. She is MAHTAAB.

Featuring jewel toned velvet shirts with tasteful gold embellishments and traditional handwork- goto, dabka and sheesha. This festive season indulge in a blend of luxury, grandiose embroidery, and rich fabrics. Carry a traditional soul with a modern spirit.

Mahjabeen
3 Piece
Rs. 47550

Mah-e-Kamil
2 Piece
Rs. 6550

Shab e Taab
3 Piece
Rs. 6500

Darakshan
3 Piece
Rs. 5850

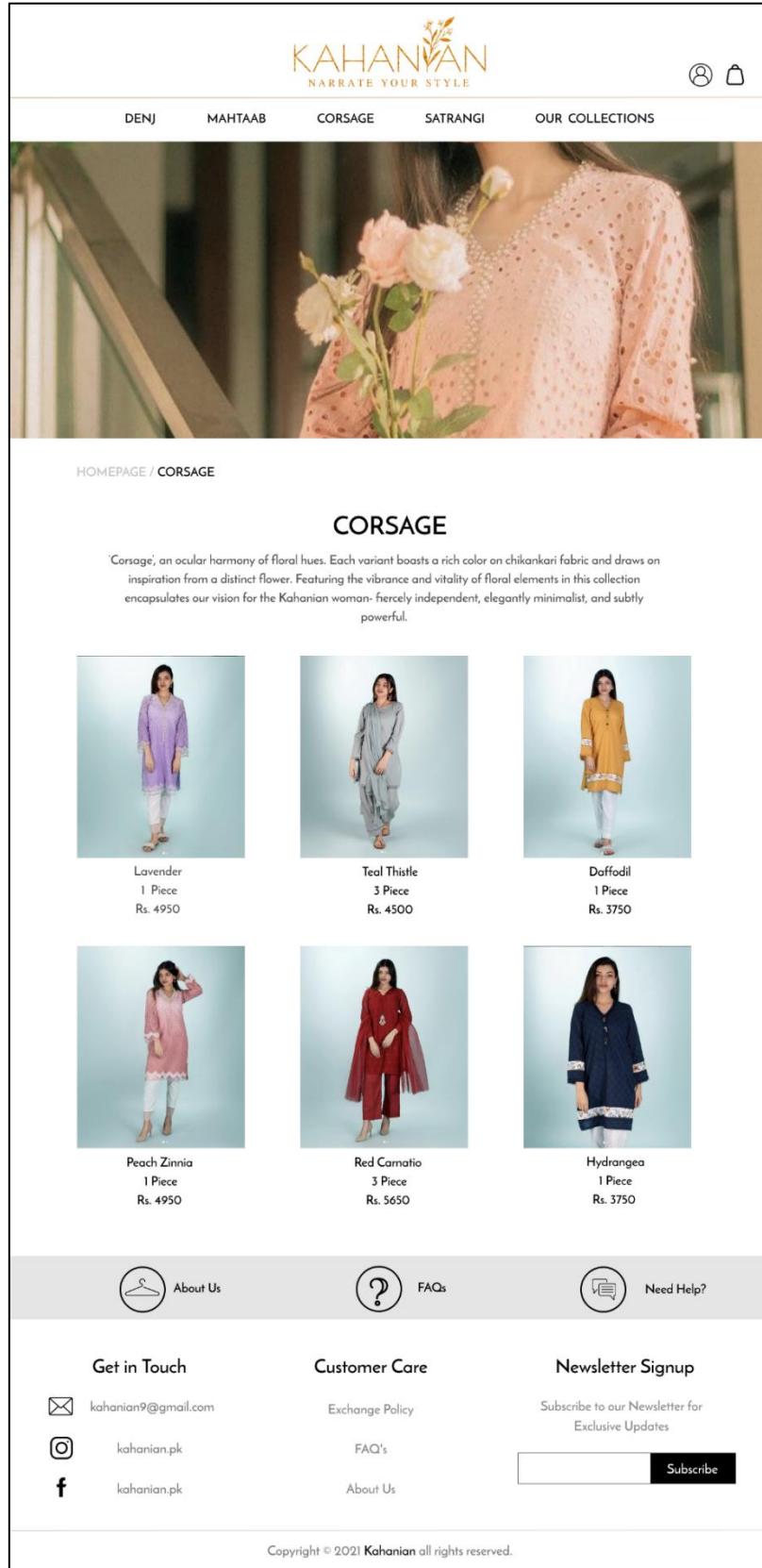
About Us **FAQs** **Need Help?**

Get in Touch

- Customer Care**
- Newsletter Signup**

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(Collection Corsage)



The image shows the Kahanian website homepage for the Corsage collection. The header features the brand logo "KAHANIAN" with the tagline "NARRATE YOUR STYLE". Navigation links include DENJ, MAHTAAB, CORSAGE (which is highlighted), SATRANGI, and OUR COLLECTIONS. A shopping cart icon is also present. Below the header is a large image of a woman wearing a light orange chikankari dress with floral corsages on her shoulder. The main title "CORSAGE" is centered above a descriptive paragraph. The paragraph reads: "Corsage; an ocular harmony of floral hues. Each variant boasts a rich color on chikankari fabric and draws on inspiration from a distinct flower. Featuring the vibrance and vitality of floral elements in this collection encapsulates our vision for the Kahanian woman- fiercely independent, elegantly minimalist, and subtly powerful." Below the text are six product cards, each showing a model in a different outfit and its details:

- Lavender**
1 Piece
Rs. 4950
- Teal Thistle**
3 Piece
Rs. 4500
- Daffodil**
1 Piece
Rs. 3750
- Peach Zinnia**
1 Piece
Rs. 4950
- Red Carnatio**
3 Piece
Rs. 5650
- Hydrangea**
1 Piece
Rs. 3750

At the bottom, there are links for "About Us", "FAQs", and "Need Help?", each with a corresponding icon. The footer contains sections for "Get in Touch" (with icons for email, Instagram, and Facebook), "Customer Care" (links to Exchange Policy, FAQ's, and About Us), and "Newsletter Signup" (a form with a "Subscribe" button). The copyright notice "Copyright © 2021 Kahanian all rights reserved." is at the very bottom.

(Collection Satrangi)

The screenshot shows the Kahanian website's homepage for the Satrangi collection. At the top, there is a navigation bar with links for DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. Below the navigation is a large image of a woman in a light green dress holding a rose. The main title "SATRANGI" is centered above a descriptive paragraph. Below the paragraph are six product images arranged in two rows of three. Each product image includes a name, piece count, and price. At the bottom, there are links for About Us, FAQs, and Need Help? along with social media icons and newsletter sign-up options.

[HOMEPAGE / SATRANGI](#)

SATRANGI

Our Satrangi collection is a visual ode to the rivulet of summer hues. Featuring a seven coloured palette and quintessential detailing, it is the perfect embodiment of elegance, and the essential summer fix for your wardrobe.

Asfari 1 Piece Rs. 2500	Beher 2 Piece Rs. 3350	Surmayi 1 Piece Rs. 2300
Chaandni 1 Piece Rs. 2500	Gul-e-laala 3 Piece Rs. 3700	Ambar 1 Piece Rs. 2700

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3.2. Articles Screen

Goal: User will be able to see the product details of their and add it to the shopping cart

Corresponding Use Case: Add to Cart, View Related Products and Give Reviews

UI:

The article page consists of:

- A collection of images of the article.
- Price of the article
- Information about the availability of the article.
- Option to choose a specific size. If a size is not available, the customer will not be able to click on that option and it will be crossed out.
- Product detail.
- An option to add the article to cart. The quantity to add to the bag can also be adjusted.
- Customer reviews of the article
- A ‘you may also like’ section which suggests some other articles from the same collection and the customer can click and browse through these articles.

(Screen on next page)

(Articles Screen)

[HOMEPAGE](#) / [MAHTAAB](#) / [SHAB-E-TAAB](#)

Shab-e-Taab

Rs.6,500.00
Availability: In Stock

Size: Choose an option
 S M L

A beautiful short black shirt, featuring intricate gold embellishments, worn with a grip shalwar, whose drape is sure to turn all heads. This outfit is paired with an elegant chiffon dupatta, finished off delicately with gota.

Product Detail
Stitched 3-Piece Suit
Color: Black
Fabric: Velvet

Shalwar :
Color: Black
Fabric: Grip

Customer Reviews (2)

[All reviews \(2\)](#)

Zara Bakht
I loved the outfit. The size was so perfect!

Amna Sultan
The details on the hem and sleeves were really pretty

You may also like

Mahjabeen
3 Piece
Rs. 4750

Mah-e-Kamli
2 Piece
Rs. 6550

Darakshan
3 Piece
Rs. 5850

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2.4 Purchase Item

2.4.1 Shopping Cart

Goal: User will be able to view the current status of shopping cart, total bill and edit the cart items

Corresponding Use Case: View Cart, Delete from Cart

UI: If the user has added items in their cart, clicking on the shopping cart page will redirect the user to this page. The page displays:

- The item and its size.
- Price of each item per piece.
- Quantity of each item, the user also has the functionality to increase or decrease the quantity of items.
- The subtotal price of each item of all the pieces.
- A text box to enter the voucher code. Upon clicking the apply discount option, the discount will be visible in the checkout summary.

(Screen on next page)

(Shopping Cart)

KAHANIAN
NARRATE YOUR STYLE

DENJ MAHTAAB CORSAGE SATRANGI OUR COLLECTIONS

HOME PAGE / SHOPPING CART

Item	Price	Qty	Subtotal
Shab-e-Taab Size : Small	Rs. 6,500.00	- 1 +	Rs.6,500.00
Blue Size : Medium	Rs. 4,550.00	- 1 +	Rs.4,550.00

Summary

Shab-e-Taab	Rs 6,500
Blue	Rs 4,550
Subtotal	Rs 11,050

CHECKOUT

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FAQs

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2.4.2 Checkout

Goal: Finalizing the order

Corresponding Use Case: Checkout, Enter Voucher Code, Delivery Charges According to City

UI: Upon clicking the checkout option, the user will be redirected to this page. If the user is logged in The text boxes will be auto filled for the customer. However, if the user is checking out as a guest, the user will have to manually fill in the details. Clicking on the next button will redirect the user to the palace order page.

(Checkout)

The screenshot shows the Kahanian Checkout page. At the top, there is a navigation bar with categories: DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. Below the navigation bar, the page title is "HOMEPAGE / SHOPPING CART / CHECKOUT".

Personal Details

- Email Address: [Input Field]
- Phone Number: [Input Field]
- First Name: [Input Field]
- Last Name: [Input Field]

Shipping Details

- Address: [Input Field]
- City: [Input Field]

APPLY VOUCHER CODE

[Enter voucher code] **APPLY DISCOUNT**

Order Summary

Subtotal	Rs 11,050
Shipping	Rs 150
ORDER TOTAL	Rs 11,200

Payment Method

Cash on Delivery

NEXT

Footer Links

- About Us
- FAQs
- Need Help?

Get in Touch

- kahanian@gmail.com
- kahanian.pk
- kahanian.pk

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2.4.3 Place Order

Goal: User will be shown complete details of the order along with shipping info before the order is finally placed

Corresponding Use Case: Has no corresponding use case, serves as a confirmation step for Checkout.

UI:

The place order page shows:

- Order summary with the total amount. It also displays the shipping which is calculated according to the city that the user has added on the checkout page.
- It also displays the name and address of the customer along with the shipping method.
- If the user clicks on the ‘PLACE ORDER’ button, the user is confirming their order. The order is then processed by the client/admin.

(Place Order)

The screenshot shows the 'Place Order' page of the Kahanian website. At the top, there's a navigation bar with categories: DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. Below the navigation is a breadcrumb trail: HOMEPAGE / SHOPPING CART / CHECKOUT / PLACE ORDER. The main content area is divided into two sections: 'Order Summary' on the left and 'Ship to:' and 'Shipping Method' on the right.

Order Summary:

Order Summary	
	Shab-e-Taab Size : Small Qty:1
	Rs. 6,500.00
	Blue Size : Medium Qty:1
	Rs. 4,550.00
Subtotal	Rs 11,050
Shipping	Rs 150
ORDER TOTAL	Rs 11,200

Ship to:

Mr Ali Ahmed
196-D DHA Phase 3
Lahore
0300 8067345

Shipping Method :

Cash on Delivery

PLACE ORDER

Footer:

- About Us:** icon of a person, link to About Us
- FAQs:** icon of a question mark, link to FAQs
- Need Help?**: icon of a person with a speech bubble, link to Need Help?

Get in Touch:

- Email: kahanian9@gmail.com
- Instagram: kahanian.pk
- Facebook: kahanian.pk

Customer Care:

- Exchange Policy
- FAQ's
- About Us

Newsletter Signup:

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2.5 Customer Support

2.5.1 FAQs

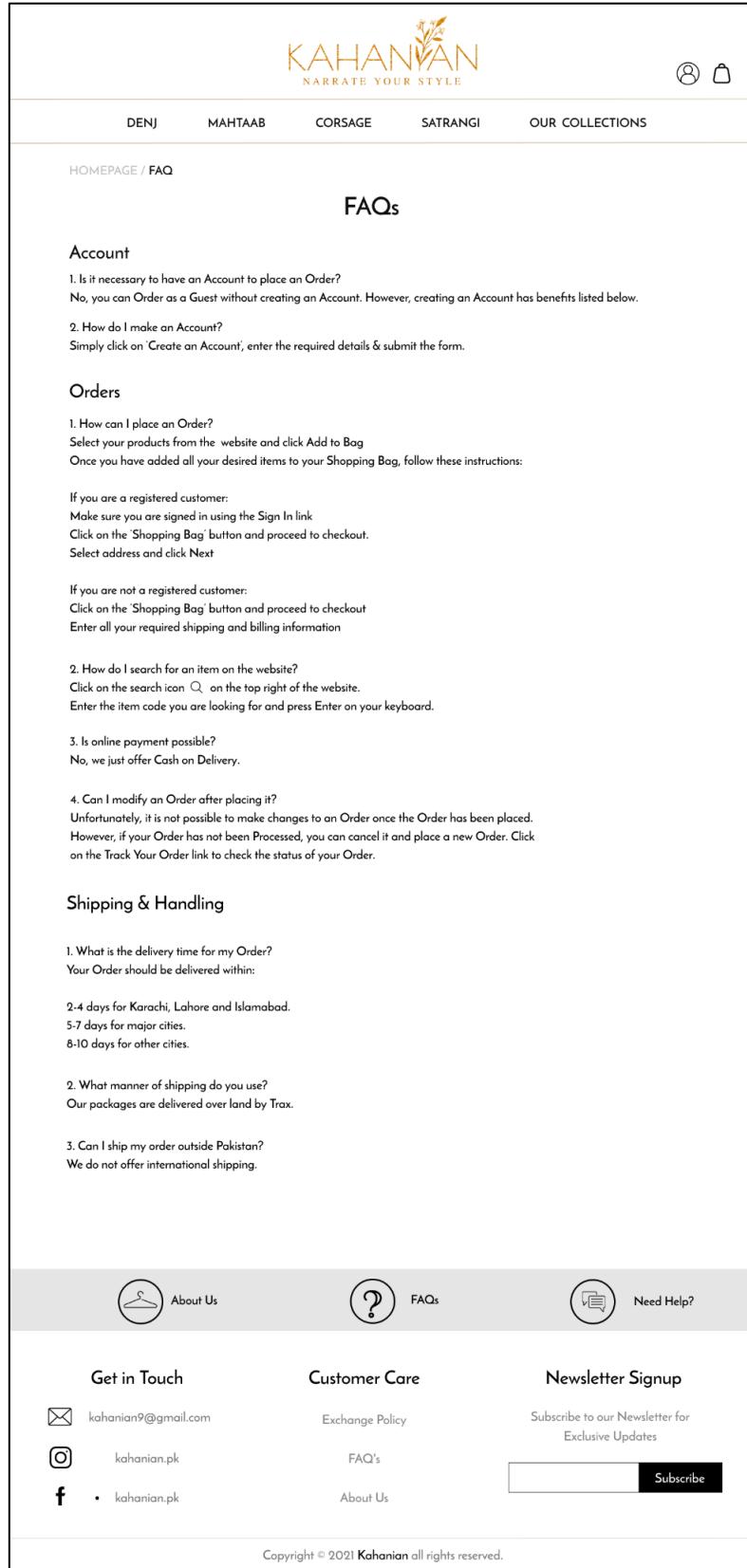
Goal: Information page for customers to find answers to their queries which are commonly asked.

Corresponding Use Case: View FAQs

UI: A page that contains a list of questions that are frequently asked and might be useful for a new customer.

(Screens on next page)

(FAQs)



The screenshot shows the Kahanian website's FAQ page. At the top, there is a navigation bar with the brand logo 'KAHANIAN' and the tagline 'NARRATE YOUR STYLE'. Below the logo are links for 'DENJ', 'MAHTAAB', 'CORSAGE', 'SATRANGI', and 'OUR COLLECTIONS'. A search icon and a shopping bag icon are also present. The main content area has a breadcrumb navigation 'HOMEPAGE / FAQ' and a section title 'FAQs'. Under the 'Account' section, it asks if it's necessary to have an account to place an order, stating that users can order as guests. It also provides instructions for creating an account. The 'Orders' section covers placing an order, searching for items, online payment (which is cash on delivery), and modifying orders. The 'Shipping & Handling' section details delivery times (2-4 days for major cities, 5-7 days for others, 8-10 days for others), shipping methods (land by Trax), and international shipping (not offered). At the bottom, there are footer links for 'About Us', 'FAQs', 'Need Help?', 'Get in Touch' (with email, Instagram, Facebook, and website links), 'Customer Care' (with Exchange Policy, FAQ's, and About Us links), and a 'Newsletter Signup' form.

FAQs

Account

- Is it necessary to have an Account to place an Order?
No, you can Order as a Guest without creating an Account. However, creating an Account has benefits listed below.
- How do I make an Account?
Simply click on 'Create an Account', enter the required details & submit the form.

Orders

- How can I place an Order?
Select your products from the website and click Add to Bag
Once you have added all your desired items to your Shopping Bag, follow these instructions:

If you are a registered customer:
Make sure you are signed in using the Sign In link
Click on the 'Shopping Bag' button and proceed to checkout.
Select address and click Next

If you are not a registered customer:
Click on the 'Shopping Bag' button and proceed to checkout
Enter all your required shipping and billing information
- How do I search for an item on the website?
Click on the search icon  on the top right of the website.
Enter the item code you are looking for and press Enter on your keyboard.
- Is online payment possible?
No, we just offer Cash on Delivery.
- Can I modify an Order after placing it?
Unfortunately, it is not possible to make changes to an Order once the Order has been placed.
However, if your Order has not been Processed, you can cancel it and place a new Order. Click on the Track Your Order link to check the status of your Order.

Shipping & Handling

- What is the delivery time for my Order?
Your Order should be delivered within:

2-4 days for Karachi, Lahore and Islamabad.
5-7 days for major cities.
8-10 days for other cities.
- What manner of shipping do you use?
Our packages are delivered over land by Trax.
- Can I ship my order outside Pakistan?
We do not offer international shipping.

 About Us  FAQs  Need Help?

Get in Touch	Customer Care	Newsletter Signup
 kahanian9@gmail.com  kahanian.pk  • kahanian.pk	Exchange Policy FAQ's About Us	Subscribe to our Newsletter for Exclusive Updates <input type="text"/> <input type="button" value="Subscribe"/>

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2.5.2 About Us

Goal: The About Us page contains information about the brand's ideology.

Corresponding Use Case: View About Us

UI: A simple static page containing the relevant information

(About Us)

The screenshot shows the 'About Us' page of the Kahanian website. At the top is the Kahanian logo with the tagline 'NARRATE YOUR STYLE'. Below the logo is a navigation bar with links to 'DENJ', 'MAHTAAB', 'CORSAGE', 'SATRANGI', and 'OUR COLLECTIONS'. To the right of the navigation are icons for user account and shopping cart. A breadcrumb trail indicates the user is on the 'ABOUT US' page. The main content area features a large Kahanian logo and a descriptive paragraph about the brand's philosophy. At the bottom, there are sections for 'Get in Touch', 'Customer Care', and 'Newsletter Signup', along with social media links and a copyright notice.

About Us

For the free spirited, modern woman of today, Kahanian is a prêt-à-porter label that offers exclusive, minimalistic designs for a perfect capsule wardrobe. Combining rich fabrics with contemporary silhouettes and laid-back aesthetic, Kahanian aims to offer designs that are not only minimalistic, but timelessly elegant and profusely versatile

About Us

Customer Care

Newsletter Signup

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2.5.3 Help

Goal: User can send in their queries through website

Corresponding Use Case: Send Query

UI:

If a customer has a specific query, the customer can click on the need help icon, which is available on all customer pages in the footer. Upon clicking the help button, this icon opens a pop up. The icon contains text boxes for the customer's name, email, phone number and their query. Upon pressing enter, the user query will be submitted, and the client can then contact the customer via mail or phone.

(Help option in the footer)



2.5.4 Exchange Policy

Goal: To provide customer the information regarding return and exchange policy of the brand

Corresponding Use Case: View Return and Exchange Policy

UI: A simple static page containing information about the exchange and return policy of orders for the client.

(Exchange Policy)

The screenshot shows the Kahanian website's "Return & Exchange Policy" page. At the top, there is a navigation bar with the Kahanian logo, a search icon, and a shopping bag icon. Below the logo, there are five menu items: DENJ, MAHTAAB, CORSAGE, SATRANGI, and OUR COLLECTIONS. The main content area has a breadcrumb navigation showing "HOMEPAGE / RETURN & EXCHANGE POLICY". The title "Return & Exchange Policy" is centered above the content. The first section, "Order Cancellation", states that users can cancel their order before it is processed. Once shipped, they will receive a shipping confirmation with tracking information. The second section, "Return", explains that if a product is damaged, users can contact them through the website or Instagram page for compensation. At the bottom, there is a footer with links for "About Us", "FAQs", and "Need Help?", along with social media icons for email, Instagram, and Facebook. The "Get in Touch" section provides contact information: kahanian9@gmail.com, kahanian.pk, and kahanian.pk. The "Customer Care" section includes links to "Exchange Policy", "FAQ's", and "About Us". The "Newsletter Signup" section features a form for entering an email address and a "Subscribe" button. The footer also contains a copyright notice: "Copyright © 2021 Kahanian all rights reserved."

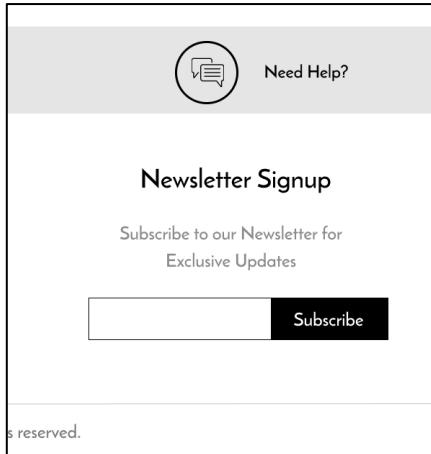
2.5.4 Newsletter Signup

Goal: User will get all the updates regarding upcoming sales and new collections in their inbox.

Corresponding Use Case: Email Subscription

UI: This section is available in the footer on all customer side pages. It asks the user to write their email address in order to subscribe to the newsletter. Once the user presses “Subscribe” button, the email address is added to the subscription list.

(Email Subscription – available in the footer)



2.5.5 View Contacts Information

Goal: The user should be able to get the information required to contact the customer support team via Email or other method.

Corresponding Use Case: View Contacts Information

UI: This section is available in the footer on all customer side pages. It contains static information regarding 3 mediums through which to contact the team behind Kahanian.

(Get in Touch - available in the footer)



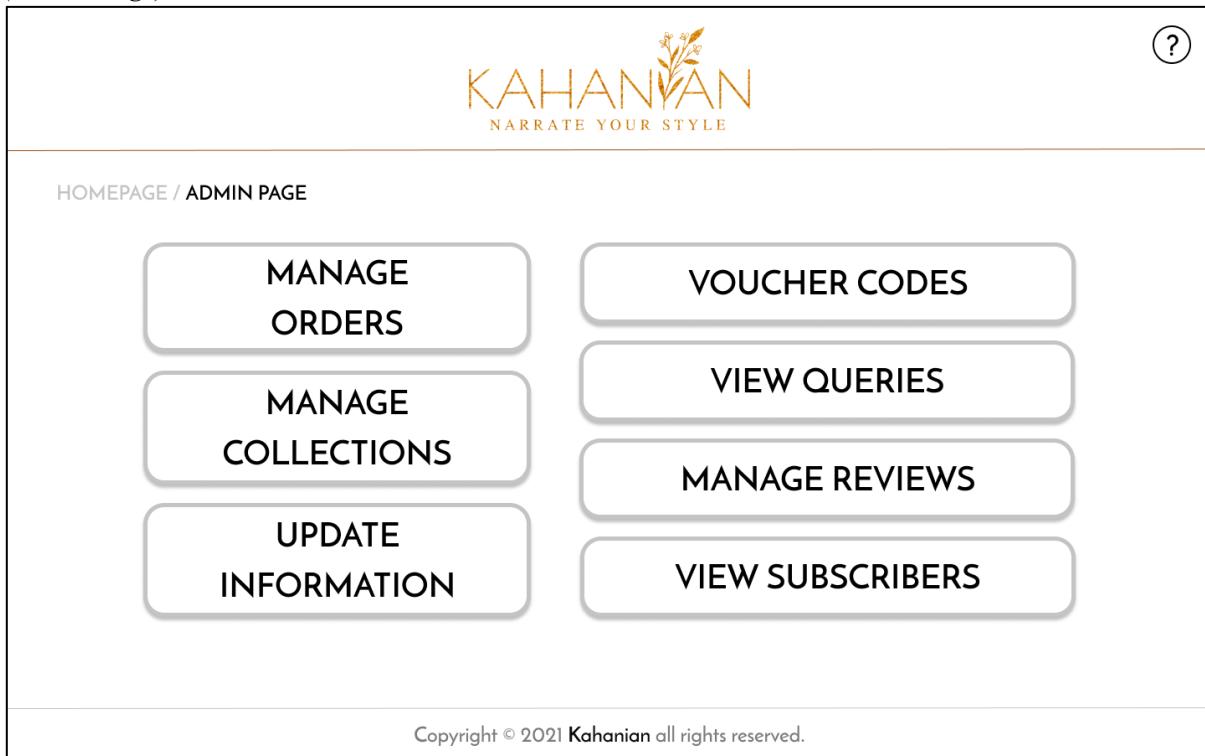
3.1 Admin Page

Goal: The admin should be able to select any option available on the page to perform a corresponding task.

Corresponding Use Case: This screen does not directly correspond to any single use case, but rather supports all Admin Use Cases.

UI: The UI is kept minimal to ensure there is no information overload for the user, consisting of only 7 buttons corresponding with distinguishable admin use cases. The buttons all have a dropdown shadow and rounded corners to ensure the user understand that they are clickable buttons. When the user would hover over a specific button, the color of the button would change slightly for the user's ease.

(Admin Page)



(Hovering over a button)



3.2 Manage Products

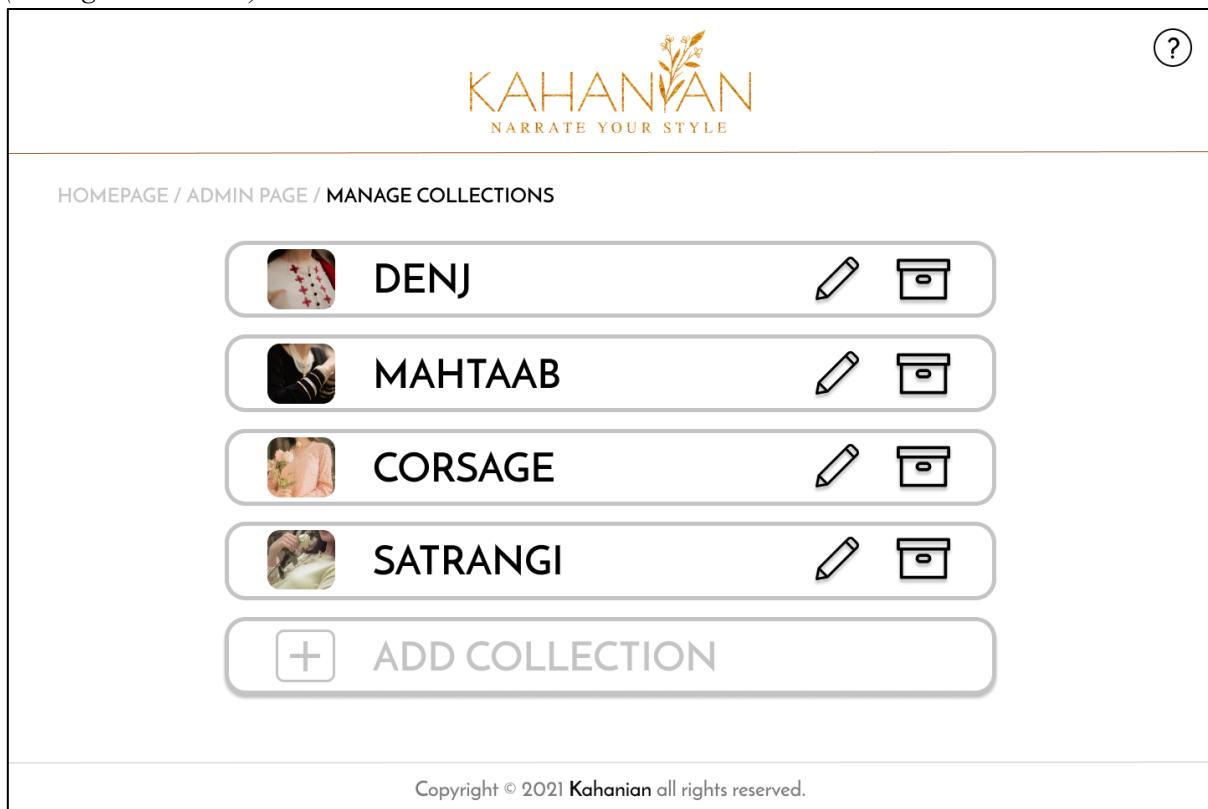
3.2.1 Manage Collections

Goal: The admin should be able to add collections, edit existing collections or archive a collection so that it is not displayed on the website.

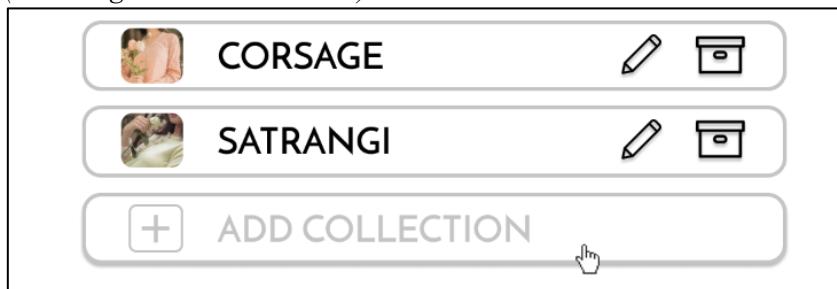
Corresponding Use Case: Add Collection, Archive Collections

UI: All collections are displayed with a picture to represent them, along with an edit and archive icon. Both icons have a drop shadow to differentiate them as clickable. If the user would hover over either icon, small text would also be displayed indicating what the purpose of the icon is. Lastly, since the entire add collection bar is clickable unlike the rest (where only the icons are clickable), it displays a drop shadow when the user hovers over it.

(Manage Collections)



(Hovering over add collection)



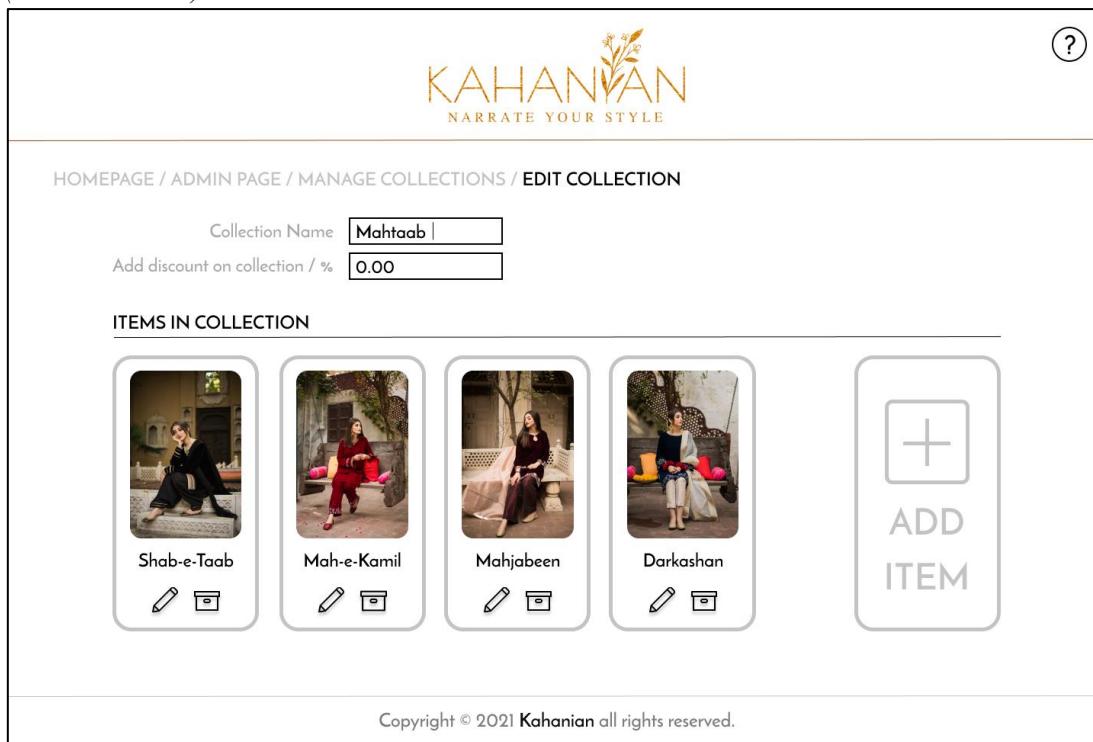
3.2.2 Edit Collection

Goal: The admin should be able to edit the collection name or add a discount on the entire collection. Similarly, the admin should also be able to add an item in to the collection or edit/archive existing items.

Corresponding Use Case: Add Product, Archive Products, Add/Edit Discounts

UI: Edit and archive buttons have been incorporated in appropriate places. To edit either the collection name or discount, user can directly edit them by clicking in the relevant text field. If the user would select edit icon for any of the items, the user would be taken to the new page where the user would be able to make relevant changes. Lastly, the user would also be able to add an item in the collection by selecting the Add Item button. Similar to adding a collection, here too the button would display a dropdown when the user would hover over it.

(Edit Collection)



3.2.3 Edit Item

Goal: The admin should be able to add/remove pictures for the item, as well as edit information such as its name, price, description, or details. The admin can also manually enter the number of pieces available for the item. Lastly, the admin should be able to add a discount pertaining to the specific item only.

Corresponding Use Case: Update Product Information, Add/Edit Discounts

UI: The user would be able to add pictures by selecting the Add Picture option. To remove a picture, the user would have to select the cross button displayed in the left top corner of the relevant picture. To edit any of the fields such as name, price etc. the user would click in the correct text field and make

relevant changes. The price and discount fields would not allow the user to enter anything except for numbers and a period to minimize errors in data entry. For the product detail, although the details could be broken down into further fields, it is left as a single text box to give the user control over what details they wish to incorporate. To edit the inventory levels of the product, instead of using text boxes, appropriate interface is used which better fits the purpose. Lastly, to make changes, the user would select the Save Changes button, and they would return to the Collections page.

(Edit Item)

The screenshot shows the 'Edit Item' page for a product named 'Shab-e-Taab'. The product has a price of 6500.00 and no discount. The description states: 'A beautiful short black shirt, featuring intricate gold embellishments, worn with a grip shalwar, whose drape is sure to turn all heads. This outfit is paired with an elegant chiffon dupatta, finished off delicately with gota.' The page includes sections for 'Available Items' (Small: 12, Medium: 32, Large: 15) and 'Product Detail' (Stitched 3-piece Suit, Color: Black, Fabric: Velvet; Shalwar: Color: Black, Fabric: Grip). There are four preview images of the outfit and an 'ADD PICTURE' button.

3.3 Manage Orders

Goal: The admin should be able to view orders, as well as filter them for a particular city, article or both. Moreover, the admin should be able to export all orders (including those not displayed), or the filtered ones.

Corresponding Use Case: View Orders, Filter Orders, Export Orders, Generate Sales Reports

UI: The interface of the webpage has been divided into two parts, the above containing the orders data, and sales reports below.

For the orders data, the right consists of the table containing all the relevant data pertaining to the orders. Here, by selecting the edit icon, the user would be able to edit the status of an order. If the user would select the edit button, the color of the column would change to grey to indicate it is being changed, and a dropdown option would appear in each row. The dropdown would ensure the user can only select one value from "Received", "Stitched", "Packed", "Dispatched", minimizing user errors. A "Save Changes" button would also be available underneath. To the left of the screen, to apply filters, dropdown lists would be available. These lists would ensure that the user is only able to use those fields as filters which are actually usable, and hence would again

minimize errors by using constraint. Lastly, the user would also be able to export the data in the table. When the user has applied some filter, then the option “Export filtered orders” would also be available, and this would be indicated to the user by the change in the color of the button.

Below that are included the Sales Reports consisting of two graphs that summarize visually the sales and profits of collections and articles. In the articles graph, there is also a dropdown option available which lets the user select which collection the articles being displayed belong to.

(Manage Orders)


?

HOMEPAGE / ADMIN PAGE / MANAGE ORDERS

Apply Filter:

City

Article

Export all orders

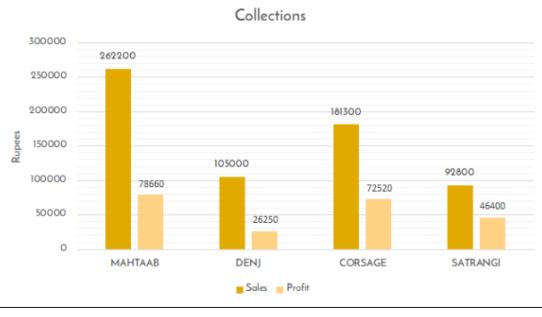
Export filtered orders

Order no.	Article	Pcs	Size	City	Number	Bill	Status	✎
1	Black	2-pc	Small	Layyah		5500	Dispatched	
2	Blue	3-pc	Large	Lahore		4300	Dispatched	
3	Maroon	2-pc	Medium	Islamabad		4600	Stiched	
4	Maroon	2-pc	Small	Muzafarabad	0340-5750294	6550	Stiched	
5	Maroon	2-pc	Small	Lahore		6550	Dispatched	
6	Blue	3-pc	Small	Multan	0306-5222205	5850	Dispatched	
7	Plum	2-pc	Medium	Karachi	0334 3366945	6600	Packed	
8	Maroon	2-pc	Small	Rawalpindi	0349-5825634	6550	Packed	
9	Black	3-pc	Small	Rawalpindi	3331907688	6500	Packed	
10	Plum	2-pc	Small	Lahore	0300-4867203	6600	Stitched	
11	Plum	3-pc	Large	Bhawalnagar		7550	Dispatched	
12	Blue	3-pc	Large	Islamabad		5850	Stiched	
13	Blue	3-pc	Small	Karachi		5850	Dispatched	
14	Maroon	2-pc	Small	Karachi		5850	Received	
15	Black	3-pc	Medium	Multan		6500	Packed	

[Load more](#)

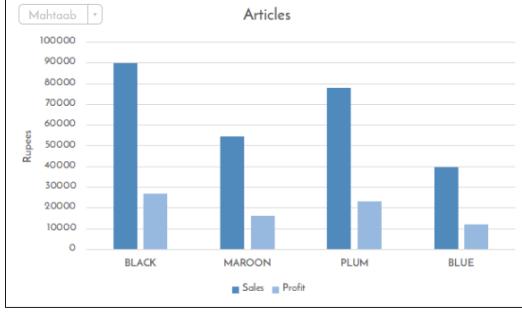
Sales Reports

Collections



Collections	Sales	Profit
MAHTaab	262200	78660
DENJ	105000	26250
CORSAGE	181300	72520
SATRANGI	92800	46400

Articles



Articles	Sales	Profit
BLACK	90000	30000
MAROON	55000	15000
PLUM	75000	25000
BLUE	40000	10000

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(Manage Orders - Upon Selecting Edit Icon to edit status)

Number	Bill	Status
	5500	Dispatched ▾
	4300	Dispatched ▾
	4600	Stiched ▾
40-5750294	6550	Stiched ▾
	6550	Dispatched ▾
06-5222205	5850	Dispatched ▾
34 3366945	6600	Packed ▾
49-5825634	6550	Packed ▾
331907688	6500	Packed ▾
00-4867203	6600	Stitched ▾
	7550	Dispatched ▾
	5850	Stiched ▾
	5850	Dispatched ▾
	5850	Received ▾
	6500	Packed ▾

SAVE CHANGES

3.4 Update Information

Goal: The admin should be able to Edit FAQs, Contacts Information, Exchange Policy, and About Us that are to be displayed on the customer's interface.

Corresponding Use Case: Update/Edit FAQs, Update Contacts Page, Update Exchange Policy

UI:

This page would allow the user to edit all information pages in one place, instead of having to navigate between multiple pages. Depending on what kind of information is required in those information pages, different input options have been utilized. To edit About Us or Exchange Policy, one text box each is utilized as the user needs only add a single paragraph for each. For Contact Us, since the user needs to enter different data with different headings, small text boxes for each field are used instead. For FAQs, since it would consist of multiple different sections, it is divided as per each section, where each section would be edited independently.

To ensure user does not accidentally any other section, here the user cannot directly edit the textboxes for About Us or Exchange Policy by clicking on it, but instead must select the edit icon available. When the user does so, the text box would become editable. For FAQs, once the user would select the edit icon for a section, it would become editable, and the editable version would consist of separate textboxes each for the heading and individual questions. An option would also be available to add an extra question to the section.

Whenever the user would be editing a particular field, the color of the textbox would change to black to indicate it is being edited. Lastly, the 'Save Changes' would be grey initially, but would change to black once the user would make any changes.

(Screens from next page)

(Update Information)



HOME PAGE / ADMIN PAGE / UPDATE INFORMATION

About Us

For the free spirited, modern woman of today, Kahanian is a prêt-à-porter label that offers exclusive, minimalistic designs for a perfect capsule wardrobe. Combining rich fabrics with contemporary silhouettes and laid-back aesthetic, Kahanian aims to offer designs that are not only minimalistic, but timeless elegant and profusely versatile.

Get in Touch

Email	kahanian9@gmail.com
Instagram	kahanian.pk
Facebook	kahanian.pk
+ Add field	

Exchange Policy

Order Cancellation:
You may cancel your order any time before the order is processed. Once the order is shipped, you will receive, via email, a shipping confirmation that contains tracking information. Once a product is shipped, the 'Return and Exchange Policy' will apply.

Frequently Asked Questions

[+ Add Section](#)

Accounts

- Is it necessary to have an Account to place an Order?
No, you can Order as a Guest without creating an Account. However, creating an Account has benefits listed below.
- How do I make an Account?
Simply click on 'Create an Account', enter the required details & submit the form.

Orders

- How can I place an Order?
Select your products from the website and click Add to Bag.
Once you have added all your desired items to your Shopping Bag, follow these instructions:

 If you are a registered customer:
 - Make sure you are signed in using the Sign In link
 - Click on the 'Shopping Bag' button and proceed to checkout.
 - Select address and click Next
 If you are not a registered customer:
 - Click on the 'Shopping Bag' button and proceed to checkout
 - Enter all your required shipping and billing information
 2. How do I search for an item on the website?
 Click on the search icon on the top right of the website.
 Enter the item code you are looking for and press Enter on your keyboard.
- Is online payment possible?
No, we just offer Cash on Delivery.
- Can I modify an Order after placing it?
Unfortunately, it is not possible to make changes to an Order once the Order has been placed. However, if your Order has not been Processed, you can cancel it and place a new Order. Click on the Track Your Order link to check the status of your Order.

Shipping & Handling

- What is the delivery time for my Order?
Your Order should be delivered within:

 2-4 days for Karachi, Lahore and Islamabad.
 5-7 days for major cities.
 8-10 days for other cities.
- What manner of shipping do you use?
Our packages are delivered over land by Trax.
- Can I ship my order outside Pakistan?
We do not offer international shipping.

[SAVE CHANGES](#)

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(Upon selecting to edit About Us and Exchange Policy respectively)

Homepage / Admin Page / Update Information

About Us

For the free spirited, modern woman of today, Kahanian is a prêt-à-porter label that offers exclusive, minimalistic designs for a perfect capsule wardrobe. Combining rich fabrics with contemporary silhouettes and laid-back aesthetic, Kahanian aims to offer designs that are not only minimalistic, but timelessly elegant and profusely versatile |

Exchange Policy

Order Cancellation:

You may cancel your order any time before the order is processed. Once the order is shipped, you will receive, via email, a shipping confirmation that contains tracking information. Once a product is shipped, the 'Return and Exchange Policy' will apply. |

(Editing Get in Touch)

Get in Touch

Email	kahanian9@gmail.com
Instagram	kahanian.pk
Facebook	kahanian.pk

+ Add field

(Upon selecting to edit Shipping & Handling in FAQs)

Frequently Asked Questions

[+ Add Section](#)

Accounts

1. Is it necessary to have an Account to place an Order?
 No, you can Order as a Guest without creating an Account. However, creating an Account has benefits listed below.

2. How do I make an Account?
 Simply click on 'Create an Account', enter the required details & submit the form.

Orders

1. How can I place an Order?
 Select your products from the website and click Add to Bag
 Once you have added all your desired items to your Shopping Bag, follow these instructions:

If you are a registered customer:
 - Make sure you are signed in using the Sign In link
 - Click on the 'Shopping Bag' button and proceed to checkout.
 - Select address and click Next

If you are not a registered customer:
 - Click on the 'Shopping Bag' button and proceed to checkout
 - Enter all your required shipping and billing information

2. How do I search for an item on the website?
 Click on the search icon on the top right of the website.
 Enter the item code you are looking for and press Enter on your keyboard.

3. Is online payment possible?
 No, we just offer Cash on Delivery.

4. Can I modify an Order after placing it?
 Unfortunately, it is not possible to make changes to an Order once the Order has been placed. However, if your Order has not been Processed, you can cancel it and place a new Order. Click on the Track Your Order link to check the status of your Order.

Shipping & Handling

1. What is the delivery time for my Order?
 Your Order should be delivered within:

2-4 days for Karachi, Lahore and Islamabad.
 5-7 days for major cities.
 8-10 days for other cities.

2. What manner of shipping do you use?
 Our packages are delivered over land by Trax.

3. Can I ship my order outside Pakistan?
 We do not offer international shipping.

[+ Add Question](#)

SAVE CHANGES

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(Hovering over Add Question when editing Shipping & Handling)

Shipping & Handling

1. What is the delivery time for my Order?
Your Order should be delivered within:

2-4 days for Karachi, Lahore and Islamabad.
5-7 days for major cities.
8-10 days for other cities.

2. What manner of shipping do you use?
Our packages are delivered over land by Trax.

3. Can I ship my order outside Pakistan?
We do not offer international shipping.

+ Add Question 

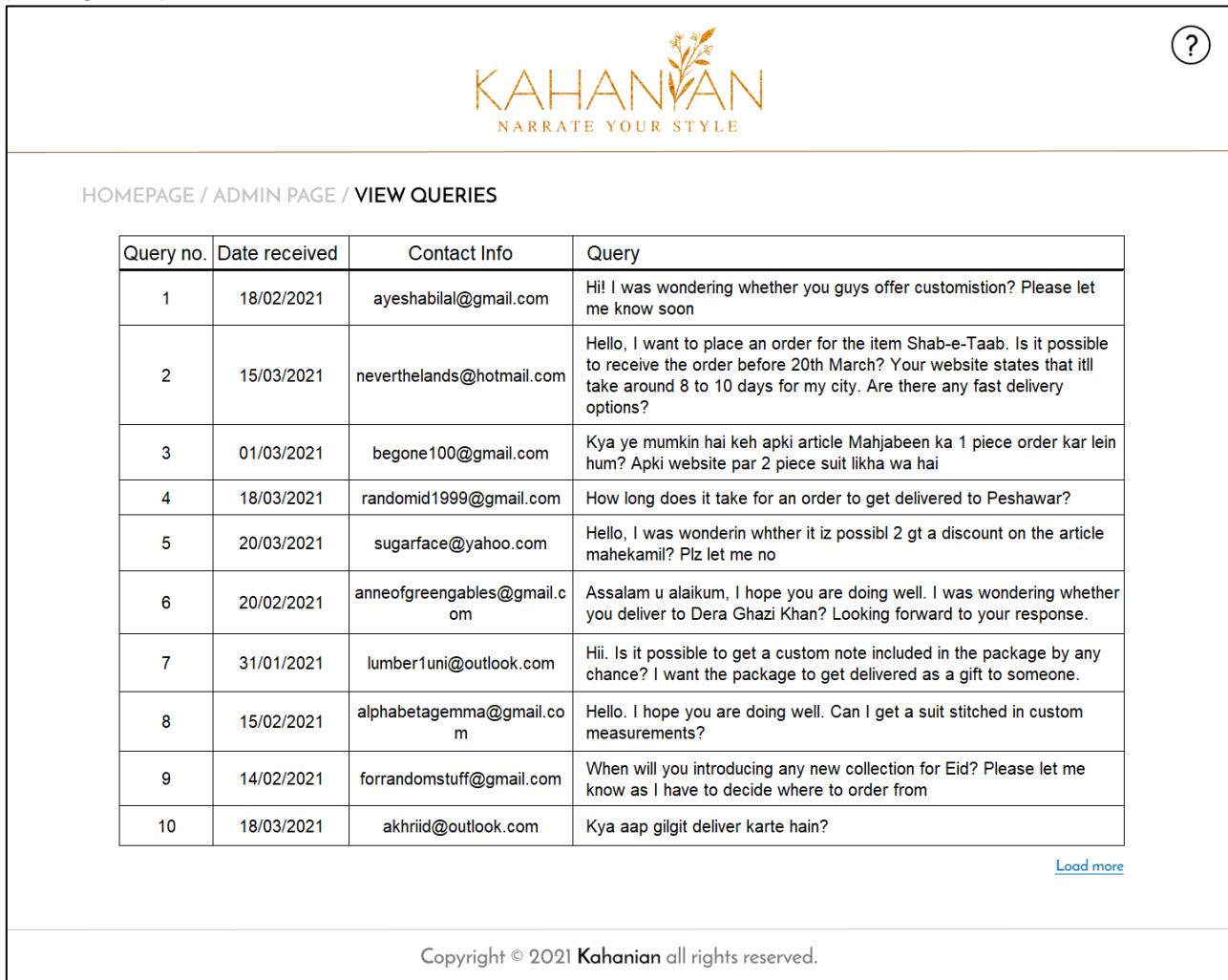
3.5 View Queries

Goal: The admin should be able to view all queries (along with the date and contact information) that have been received from customers through the Help chat box available on the website.

Corresponding Use Case: View Queries

UI: This page would only be utilized by the user to see the queries received, and therefore would serve to show the user data, with the user not being able to perform any actions on the page. Therefore, the only interaction the user would have would be to load more queries.

(View Queries)



The screenshot shows the Kahanian Admin Page interface. At the top, there is a logo for "KAHANIAN NARRATE YOUR STYLE" with a question mark icon in the top right corner. Below the header, the page title is "HOMEPAGE / ADMIN PAGE / VIEW QUERIES". A table displays ten customer queries, each with a query number, date received, contact info, and the query text. The contact info column contains email addresses. The query text column contains the messages in their original language. At the bottom of the table, there is a "Load more" link. The footer of the page contains the copyright notice "Copyright © 2021 Kahanian all rights reserved."

Query no.	Date received	Contact Info	Query
1	18/02/2021	ayeshabilal@gmail.com	Hi! I was wondering whether you guys offer customistion? Please let me know soon
2	15/03/2021	neverthelands@hotmail.com	Hello, I want to place an order for the item Shab-e-Taab. Is it possible to receive the order before 20th March? Your website states that itll take around 8 to 10 days for my city. Are there any fast delivery options?
3	01/03/2021	begone100@gmail.com	Kya ye mumkin hai keh apki article Mahjabeen ka 1 piece order kar lein hum? Apki website par 2 piece suit likha wa hai
4	18/03/2021	randomid1999@gmail.com	How long does it take for an order to get delivered to Peshawar?
5	20/03/2021	sugarface@yahoo.com	Hello, I was wonderin whther it iz possibl 2 gt a discount on the article mahekamil? Plz let me no
6	20/02/2021	anneofgreengables@gmail.com	Assalam u alaikum, I hope you are doing well. I was wondering whether you deliver to Dera Ghazi Khan? Looking forward to your response.
7	31/01/2021	lumber1uni@outlook.com	Hii. Is it possible to get a custom note included in the package by any chance? I want the package to get delivered as a gift to someone.
8	15/02/2021	alphabetagemma@gmail.com	Hello. I hope you are doing well. Can I get a suit stitched in custom measurements?
9	14/02/2021	forrandomstuff@gmail.com	When will you introducing any new collection for Eid? Please let me know as I have to decide where to order from
10	18/03/2021	akhriid@outlook.com	Kya aap gilgit deliver karte hain?

[Load more](#)

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3.6 Miscellaneous

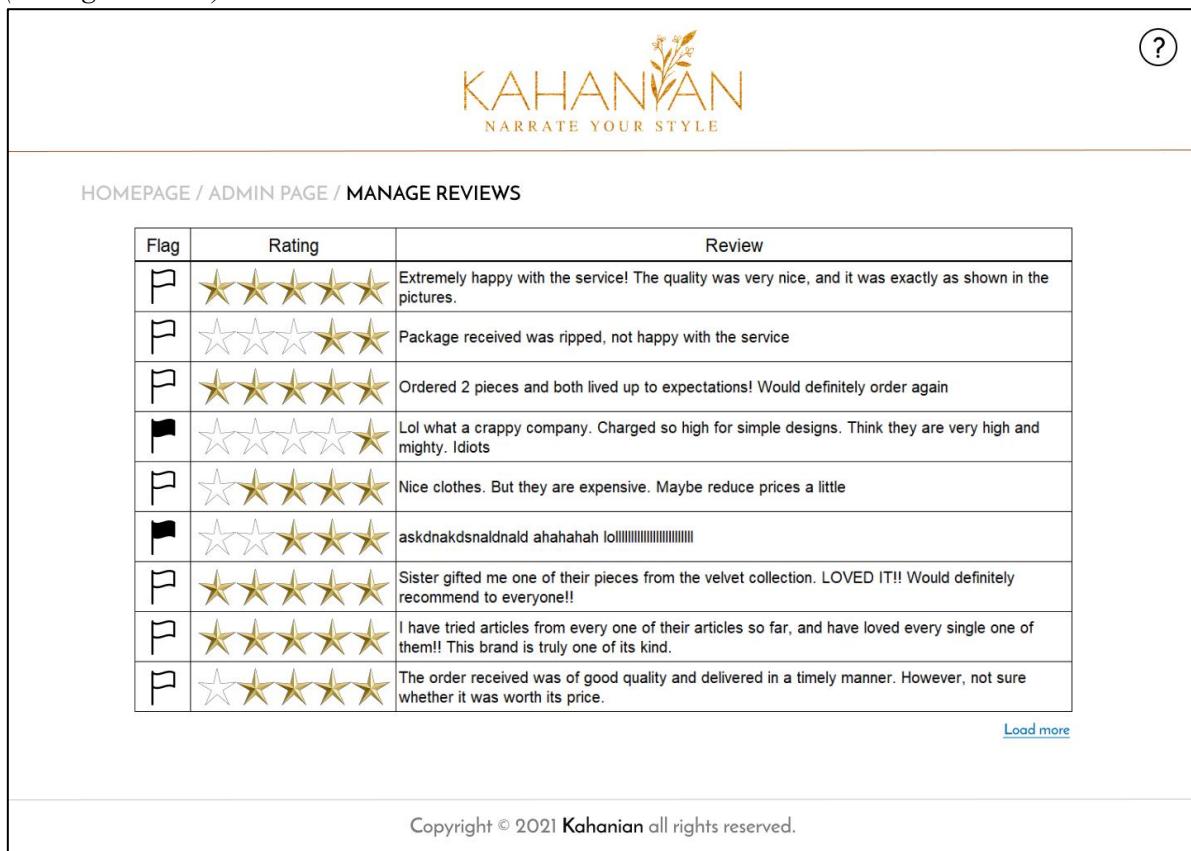
3.6.1 Manage Reviews

Goal: The admin should be able to flag reviews so that those reviews are not displayed on their website.

Corresponding Use Case: Flag Reviews

UI: The user would only be able to view ratings and reviews and flag any that are deemed appropriate. The user would not be able to perform any other actions on this page except for load more reviews. For the ease of the user, actual flags are used, where those reviews that the user has flagged are displayed as black so that the user can easily identify between flagged and non-flagged reviews.

(Manage Reviews)



The screenshot shows the Kahanian Admin Page with the title "MANAGE REVIEWS". At the top right is a help icon (a question mark inside a circle). Below the title is a table with the following columns: "Flag", "Rating", and "Review". The table contains 9 rows of review data. A "Load more" link is located at the bottom right of the table area. The footer of the page includes the copyright notice "Copyright © 2021 Kahanian all rights reserved."

Flag	Rating	Review
Flag icon (white)	5 stars (all gold)	Extremely happy with the service! The quality was very nice, and it was exactly as shown in the pictures.
Flag icon (white)	4 stars (1 white, 4 gold)	Package received was ripped, not happy with the service
Flag icon (white)	5 stars (all gold)	Ordered 2 pieces and both lived up to expectations! Would definitely order again
Flag icon (black)	3 stars (1 white, 2 gold)	Lol what a crappy company. Charged so high for simple designs. Think they are very high and mighty. Idiots
Flag icon (white)	5 stars (all gold)	Nice clothes. But they are expensive. Maybe reduce prices a little
Flag icon (black)	5 stars (all gold)	askdnakdsnaldnald ahahah lol
Flag icon (white)	5 stars (all gold)	Sister gifted me one of their pieces from the velvet collection. LOVED IT!! Would definitely recommend to everyone!!
Flag icon (white)	5 stars (all gold)	I have tried articles from every one of their articles so far, and have loved every single one of them!! This brand is truly one of its kind.
Flag icon (white)	4 stars (1 white, 3 gold)	The order received was of good quality and delivered in a timely manner. However, not sure whether it was worth its price.

3.6.2 Voucher Codes

Goal: The admin should be able to add/edit existing voucher codes, as well as manually add voucher codes or generate random ones. Similarly, the admin should also be able to filter codes based on their status.

Corresponding Use Case: Add Voucher Code, View Voucher Codes, View Voucher Codes History, Filter Voucher Codes

UI: The user would be able to perform multiple actions on this page. All existing voucher codes would be displayed in a form of a table, where the user will be able to see the codes and their relevant information. The user will also be able to edit any information in the table by selecting the edit icon.

The Add option in the last row of the table would allow the user to manually add a voucher code. Whereas Randomly Generate Codes option on the left side of the screen would allow the user to randomly generate as many codes as required. Lastly, the user would also have a filter option on the left side of the screen which would allow the user to filter the data in the table according to the status.

(Voucher Codes)


(?)

[HOMEPAGE / ADMIN PAGE / VOUCHER CODES](#)

Randomly generate codes

Number of codes:

Limit of users:

Expiry Date:

[Generate](#)

Filter Vouchers

Status:

[Edit Table Data](#)

No.	Voucher Code	Limit (users)	Expiry Date	Status
1	NEW10	NA	31/12/2021	Available
2	akn12m	1	12/03/2021	Expired
3	WER12	10	30/03/2021	Used
4	DIS10	NA	25/06/2021	Available
5	DUMNA	NA	14/02/2021	Expired
6	lumber1uni	NA	31/01/2021	Expired
7	CHAWARAYY	10	31/12/2020	Expired
8	IM100	1	30/03/2021	Used
9	out10OF	5	14/04/2022	Available
10	IDEAS800	1	30/09/2021	Used
+ Add				

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3.6.3 View Subscribers

Goal: The admin should be able to view all subscribed emails, as well as add, delete, or edit those emails. The admin should also be able to export the list of subscribers.

Corresponding Use Case:

UI: All existing subscribers will be visible to the user in form of a table. 3 icons will also be available for the user above the table, from where the user will be able to add, delete or edit any subscriber by selecting the relevant icon.

(View Subscribers)

S No.	Subscribers
1	alphabetagemma@gmail.com
2	lumber1uni@outlook.com
3	maiphasgayehain@hotmail.com
4	koyebachaleeee@yahoo.com
5	didntyahoodie@yahoo.com
6	losergmailisthekingnow@gmail.com
7	yahoodiesoundslikeyahoodi@hotmail.com
8	yahoodisazish@gmail.com
9	imjustfillingupspace@outlook.com
10	headphones123@gmail.com
11	alrightthisshouldbeenuf@gmail.com
12	maybeonemore@gmail.com
13	andonemoree@hotmail.com
14	enough@outlook.com

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5.4 User interface design rules

The interface has been designed keeping both website conventions and design heuristics in mind. Design heuristics used are 10 heuristics documented by Jakob Nielson.

5.4.1 Website Conventions

Logo Placement

Logo is placed highest up on the page in the top centre. Since it's already at the most important spot, the size of the logo is not kept too big. Logo also links back to the homepage.

Colours

3 neutral colours are used throughout the website (black, grey, white) in order to keep the website cohesive.

Buttons

Buttons are used for the most important calls to action and the background colour of the buttons is completely opposite to the background colour of the website, so they remain highlighted.

Iconography

By using standard website icons for our iconography, we follow all design principles (the shopping cart and profile logo). However, when we have to generate custom icons (FAQ, Need Help, About US) we ensure we are acting within the UI principles particularly:

- *Layering & Overlap*: We try to keep our design simple to avoid complex layering. Additionally, we do not overlap multiple elements.
- *Distort*: No icon is distorted
- *Clarity*: We ensure that no icon is blurred
- *Explanation*: We ensure to give some sort of information alongside the icon



5.4.2 Design Heuristics

Visibility of system status: To ensure the system state is visible to the user, visual feedback is provided in multiple places through visual elements. A few examples of change in visual elements:

Text gets underlined to indicate it is clickable, and color variation to display which page the user is situated on:



Button color from grey to black to indicate changes have been and need to be saved:

Change in color of column to indicate changes are being made:

Number	Bill	Status	
	5500	Dispatched	
	4300	Dispatched	
	4600	Stiched	
40-5750294	6550	Stiched	
	6550	Dispatched	
06-5222205	5850	Dispatched	
34 3366945	6600	Packed	
49-5825634	6550	Packed	
331907688	6500	Packed	
00-4867203	6600	Stitched	
	7550	Dispatched	
	5850	Stiched	
	5850	Dispatched	
	5850	Received	
	6500	Packed	

[Load more](#)

Number	Bill	Status	
	5500	Dispatched	▼
	4300	Dispatched	▼
	4600	Stiched	▼
40-5750294	6550	Stiched	▼
	6550	Dispatched	▼
06-5222205	5850	Dispatched	▼
34 3366945	6600	Packed	▼
49-5825634	6550	Packed	▼
331907688	6500	Packed	▼
00-4867203	6600	Stitched	▼
	7550	Dispatched	▼
	5850	Stiched	▼
	5850	Dispatched	▼
	5850	Received	▼
	6500	Packed	▼

SAVE CHANGES

Match b/w system and real world: Already existing terminology that the user group is mostly likely to be already familiar with is used such as “checkout”, “shopping cart”. Shopping cart is also a direct match between the system and the real world, as it uses interface metaphors to draw a parallel between the two. Similarly, icons are used that the user would already be familiar with, such as a pencil to indicate edit option, dustbin to indicate the option to delete something.

User control and freedom: To ensure the user has maximum control and freedom over their usage of the website, multiple elements are utilized. When the user is present on a page, a page path is displayed on top of the page, where each previous page name is clickable. This ensures that the user can easily navigate backgrounds and thus gives the user control.



Similarly, another way of giving the user control has been utilized by ensuring the user can place an order both with and without having a customer account. By having an account, the user would not have to enter their details again when they place an order. However, since all customers might not want to, this is kept as optional and thus this increases the customer's freedom.

Consistency and standards: All screens on the customer sides are designed using the same elements consistently (such as colors, types of input fields). This gives the website a cohesive look, and also helps the

customer get comfortable with the website instead of getting surprised by new elements. Similarly, the admin side is also designed in a consistent manner. While both sides consist of mostly similar elements, there is a slight difference in the two sides visually, which helps the admin use the website by not creating confusion as to which side he/she is present on.

Error prevention: To prevent errors, constraints have been added in multiple places. When editing the information pages, the user (admin) must click on the edit option to edit some particular section. Since the page consists of multiple different elements that can be edited, this ensures that the user doesn't accidentally click on a textbox and edits information within. Similarly, in input fields where only numerical values can be entered, checks are placed as a form of input validation, thus minimizing errors.

When a customer is placing an order, a final confirmation page is displayed where they must select "Place Order" to finalize their order. This serves as a final confirmation, and thus also helps the customer by preventing them place an order when they haven't fully decided yet.

Recognition rather than recall: To aid the user, paths are added at the top of the screen which ensure that the user does not have to remember which page they are on, and how they got there. When a customer is checking out, all relevant information is displayed such as item(s) ordered, amount of particular item ordered, shipping information etc. This reduces the customer's cognitive load as they can do not have to remember what they ordered etc., rather displays all the information on the screen and makes it easy for them to check. Similarly, the use of varying colors etc. to display the system state also help reduce the user's cognitive load.

Flexibility and efficiency of use: The option to view related products is added on the screen when the user is checking out a particular item. This enhances the user's flexibility in browsing options. Similarly, it is ensured that majority of the actions performed by the user are reversible. In the customer's perspective, they can add/remove items placed in the shopping cart, change details in their account profile, etc. For the admin, they can archive/unarchive collections/items, add discounts on entire collections, or particular items individually. These factors improve the users' flexibility in using the website.

Aesthetic and Minimalistic Design: The design of the interface is kept minimalistic, and screens are designed such that they don't overload the user's senses. Several design principles are utilized in the designing of the screens:

Help and Documentation: multiple elements have been included that aid the user in different ways in navigating the website. For the customers, they can consult FAQs, exchange policy if they have queries, and furthermore can also utilize the "Help" option available in the footer through which they can send new queries. For the admin, they can consult the ? available at the top right of the website, which documents what actions can be performed on the page, and thus help the admin accomplish what they want to on the page.

Helping users with errors: This design heuristic has not been catered to.

6 Other Non-functional Requirements

- <Refine this section based on the final system design. Highlight the changes or additions>

6.1 Performance Requirements

<*If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.*

TODO: Provide at least 5 different performance requirements based on the information you collected from the client. For example you can say “1. Any transaction will not take more than 10 seconds, etc...>

6.2 Safety and Security Requirements

<*Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied. Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements.*

TODO:

- *Provide at least 3 different safety requirements based on your interview with the client or, on your related research, and again you need to be creative here.*
- *Describe briefly what level of security is expected from this product by your client and provide a bulleted (or numbered) list of the major security requirements.>*

6.3 Software Quality Attributes

<*Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.*

TODO: Use subsections (e.g., 4.3.1 Reliability, 4.3.2 Portability, etc...) provide requirements related to the different software quality attributes. Base the information you include in these subsections on the material you have learned in the class. Make sure, that you do not just write “This software shall be maintainable...” Indicate how you plan to achieve it, & etc...Do not forget to include such attributes as the design for change. Please note that you need to include at least 2 quality attributes, but it is the mere minimum and it will not receive the full marks.>

Appendix A - Group Log

TA Meeting 1 [21/02/2021] 6:00 PM - 6:24 PM

- Overview of SDS and possible division of work given

TA Meeting 2 [27/02/2021] 5:15 PM - 5:34 PM

- Progress update on SDS

Group Meeting 1 [2/03/2021] 10:00 PM - 12:00 PM

- SRS Template discussed, positions allocated: Hania and Mominah screens, Ahmed, Umme, and Maryam to do the document. Main screen designed on Mural.

TA Meeting 3 [6/03/2021] 5:00 PM - 5:27 PM

- SDS progress -> decided division and internal group meeting to take place on Sunday

Group Meeting 2 [7/03/2021] 11:05 PM - 11:50 PM

- Work allocated: Home Screen to be designed by Mominah and Hania. Umme and Maryam to start 4.1 and 4.2 respectively. Ahmed to start Database design and schema.

Group Meeting 3 [11/03/2021] 6:00 PM - 6:30 PM

- Progress Update given and confusions in assigned parts discussed with the group.

TA Meeting 3 [12/03/2021] 2:30 - 3:00 PM

- Confusions regarding the UML component diagram, Class diagram and Database Schema asked. Further queries discussed.

Group Meeting 4 [15/03/2021] 12:00 - 12:20 PM

- Progress Update Given. Further division of work on the SDS document done.

Group Meeting 5 [17/03/2021] 2:30 - 3:30 PM

- Review on the screens and the changes discussed. Learning development.

TA Meeting 4 [20/03/2021] 5:15 - 5:31 PM

- Progress update on the SDS, Start working on the front-end using CSS and HTML, along with learning reactJS, Discussion on completing the front-end before the initial demo. Discussion on responsiveness of the system.

Appendix B – Contribution Statement

Name	Contributions in this phase	Approx. Number of hours	Remarks
Umme Ammara	<ul style="list-style-type: none"> 1. Change Log <ul style="list-style-type: none"> 1.1 - Project Scope 1.2 - Change Log 2. Introduction <ul style="list-style-type: none"> 2.1 Document Purpose 2.2 Project Scope 2.3 Intended Audience Overview 3. Overall Description <ul style="list-style-type: none"> 3.1 System Overview 4. System Architecture <ul style="list-style-type: none"> 4.1 System Architecture <p>Appendix A - Group Log</p>	19	The conceptual design of the system architecture took a considerable time to do, especially the UML component diagram but it helped clarify a lot of things. I found Draw.io to be a very useful tool for making relevant diagrams. Overall, the SDS was a lot of learning and gave a starting perspective on what the development will look like.
Ahmed Ateeq	<ul style="list-style-type: none"> 1. Change Log 2. 4.4 Database model and schema 3. 4.5 External Interface Requirements.. 4. 5.1 Description of the User interface. 5. 5.2 Information Architecture 	32	The entire document was a lot of learning and gave me a whole idea of the design phase. From designing the database to designing the information architecture, I have learnt the importance of these processes in the development of a product. Overall, it was difficult and time consuming, but our group effort made everything possible!
Maryam Saadat	<ul style="list-style-type: none"> 1. 4.2 Subsystem Architecture 2. 3.2 System Constraints 3. 3.3 Architectural Strategies 4. 5.3 Only description for some of the customer side screens 	17	The sequence diagrams took the longest to make. Overall, the document was a lot of learning. Since I got to work on many different sections of the SDS, it gave me an overall view of how to design the system and how to go about in the design phase.

Mominah Anwar	<ol style="list-style-type: none"> 1. 5.3 Screens and their documentation 2. 5.4 User Interface Design Rules 3. Formatting of final document 	27	<p>There was a lot of learning involved while working on the document. Designing the screens helped focus on the perspective of an end-user rather than that of a developer since the screens are to be the user's main mode of communication with the system.</p>
Hania Rafique	<ol style="list-style-type: none"> 1. 5.3 Designed all client-side screens and wrote their description 2. 5.4.3 User Interface design rules 	34	<p>I learnt a lot while working on this document. Firstly, I learnt Figma from scratch. Secondly, I learnt about website interface designing rulers and made sure to incorporate all those in the screens. Even though making a new screen for every action flow was a lot of work in terms of deciding the screen design and implementing it on Figma but was a great learning experience. I can now say that I've mastered a lot of Figma tools and have learnt a lot of design rules as well</p>