

Project

CS Department

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“Give-N-Take-Hub”

Borrowing, bartering, and gifting system

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This project report is submitted to the Department of Computer Science at University of Prince Mugrin in partial fulfillment of the requirements for the course Web Application Development Course (CS314).

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ABSTRACT

The report investigates the process of building this system, beginning with the search for an idea and identifying its purpose and potential impact on society. This is followed by a comprehensive analysis of a similar system, including an assessment of its shortcomings and areas for improvement. Then the analysis phase was started; during this phase, the functional and non-functional requirements are elicited. Then we are moved to the design phase, where the functionality of the system was visualized by using some UML diagrams. Then the system was brought to life in the development phase, and at the end, we went through some test cases to test the functionality of the system and to see if it fit the purpose. Finally, a visual representation of the final output of the system is attached.

Keywords: *Borrowing, Bartering, Gifting, Web Application.*

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Chapter 1 – Introduction

Chapter 1 INTRODUCTION

1.1 Purpose of the Project

The website serves as an online marketplace that facilitates the exchange of items between individuals in a seamless and effortless manner. The institution provides a set of three primary services, namely, borrowing, bartering, and gifting. The operating system facilitates users to inventory articles available for exchange and delineate the items that they intend to obtain, thereby simplifying the process of connecting individuals with matching interests to engage in exchanges that are mutually advantageous. One of the benefits afforded by the platform we have constructed is a cost-effective solution for users seeking to either acquire new items or dispose of unwanted ones, without incurring financial expenditure. Furthermore, our platform cultivates a sense of communal belonging and promotes the establishment of interpersonal connections amongst users by means of facilitating the exchange of goods and services. Our platform facilitates the process of borrowing items for a temporary period, exchanging goods of identical worth, or offering gifts in a facile and accessible manner.

1.2 Purpose of this Document

The main purpose of this documentation is to provide a comprehensive and detailed understanding of the website's features and structure. This document will serve as a valuable reference tool for the project team, stakeholders, and anyone else involved in the development and maintenance of the website. It will also serve as a contractual agreement between us and the stakeholders, outlining the scope of work and deliverables.

1.3 Overview of this Document

The report highlights the road map to developing our website, starting with a feasibility study that includes studying existing similar systems and identifying their weaknesses as our starting point to enter a new era. Next, the report states the second phase of developing the website, which is system analysis. Through it, the report goes through system requirements, proposed solutions, and alternative solutions as well. After that, the report indicates tips and hints in the design consideration chapter, like identifying the correct target

user, reusing some existing components, and selecting the best SDLC approach, which combines with project management tricks that lead to successful projects. All that is followed by a stage called system design, where magnifying glass is put on our system to identify the major and sub-components. Finally, the report brings our website to life by providing project implementation and validation. In the report index, a snapshot of the code and references are provided.

1.4 Existing System

1.4.1 Existing system description

The website is called (Moqaida) and is dedicated to swapping, selling, or buying goods or items. It was launched in 2021 and it offers various features such as searching by location, category, or price. It also provides a safe environment for transactions. The website is in Arabic language, and it targets users in the Middle East region.

The website has home categories to swap and barter, contact us, and about us pages, and it has login and register pages. All pages support English and Arabic languages and share the same header and footer on the home page. The website displays the option of item that the user would like to swap or barter or sell, the city of the user, and displays also all available categories (electrical, and electronics, real estate, cars, furniture, toys, cloths, tools, accessories) each one of these categories if you click it the user will be redirected to the categories page which the user will find relevant item of the category. The home page also has the latest advertisement in the lowest part of the page.

The Categories Page as discussed above has each category containing relevant items to be sold or swapped and it has the latest advertisement in the lowest part of the page. Contact Page is basically a form of user's name, email, phone, and message which is a required field. And the About Us Page has just one paragraph and an unordered list talking about the website and its features. For the Login and the Register Page, they have the basic format and functions as expected, but with register they have a redirect page to the website Facebook account for the login page, they have also the option of (remember me). Finally, a user can't add an advertisement unless they are registered on the website.

Website link: <https://moqaida.com/about-us>

1.4.2 Problems in the existing system

Although the website has good functionality, there are some issues that need to be addressed. For instance, the Register Page lacks clear constraints for the user's name, resulting in an unhelpful error message that doesn't exactly explain what the error is. Even more than this, clicking on the Login or Register pages after the user logs in redirects the user to the home page. Furthermore, the only required field during the sign-up process is the city, which can cause problems for users who forget their password. Furthermore, the website's search page does not provide satisfactory portability for mobile users. Finally, our website offers two additional features, bartering and gifting, that are not available on this website.

Chapter 2 – System Analysis

Chapter 2 SYSTEM ANALYSIS

2.1 Data Analysis

2.1.1 Data flow diagrams

As we know, there are various models that can be used to represent a system from different perspectives. In the case of data flow, we begin by creating a context diagram that illustrates the system's boundaries and the external entities that interact with it. This helps us understand what needs to be developed within the system and what responsibilities lie outside its scope. Figure 2.1 shows the context diagram for our system.

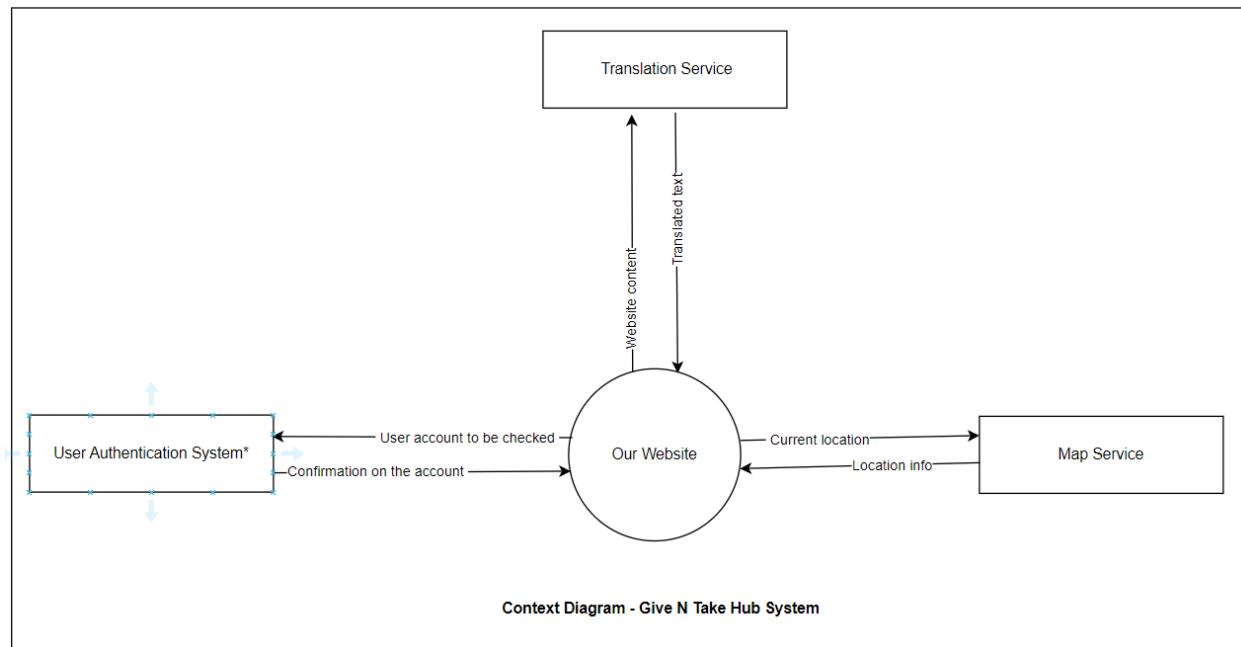


Figure 2.1 – Context Diagram

To gain a deeper understanding of the system's data processing, we identify the main task and represent it using a business process model, such as an activity diagram. This model, illustrated in diagram 2.2, provides a visual representation of how our system processes data.

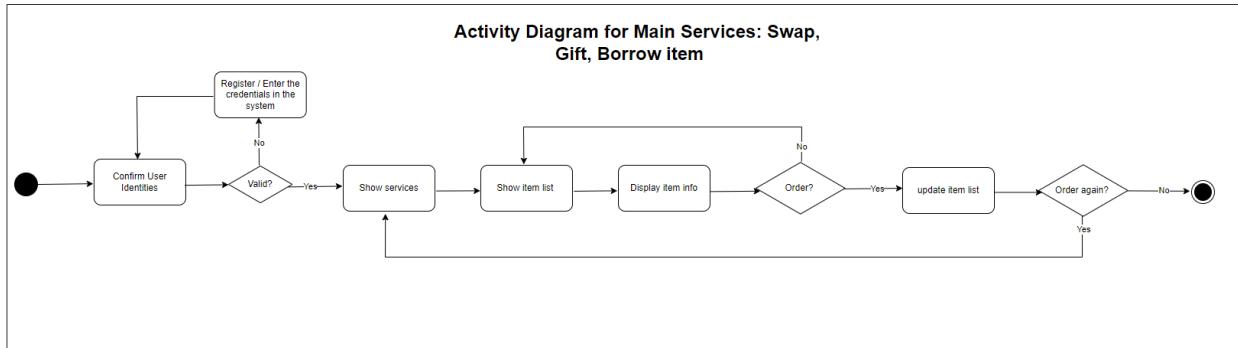


Figure 2.2 – Activity Diagram

2.1.2 System requirements

2.1.2.1 Clients, customer, and users

FR: The user shall be able to see all contributed sponsors and other details-sponsor page.

FR: The user shall be able to sign up.

FR: The user shall be able to log in.

FR: The user shall be able to communicate with admin for inquiries.

FR: The user shall be able to swap items.

FR: The user shall be able to borrow items.

FR: The user shall be able to give away items as gifts.

FR: The user shall be able to get rewards points in return for a complete upload or use of switch or giveaway or borrow

FR: The user shall be able to display the leaderboard of the highest 10 users' points.

FR: The user shall be able to upload items with specifying the wanted process (giveaway or swap or borrow) days to borrow, item category, items photo, wanted swap in exchange items, and policies in case of damage of the items.

FR: The admin shall be able to add coupons.

2.1.2.2 Functional and data requirements

FR: The website shall have a home page to enable the user to move through other pages.

FR: The website shall be able to display informative information about the website and its policies.

FR: The website shall display FAQ.

2.1.2.3 Non-functional requirements

2.1.2.3.1 Look and feel requirements.

NFR: The website shall have good UI and UX.

2.1.2.3.2 Usability requirements

NFR: The website should be supplied with clear and simple instructions or tooltips to help users through each phase of the borrowing, bartering, gifting process.

NFR: The user shall be able to use all the system functions after four hours of training. After this training, the average number of errors made by experienced users shall not exceed two per hour of system use.

2.1.2.3.3 Security requirements

NFR: The user shall be able to login after matching username and password.

2.1.2.3.4 Performance requirement

NFR: The website should load quickly and with little latency.

NFR: The website shall be able to respond quickly to any transaction in less than 10 seconds.

NFR: The website should be able to handle 2000 concurrent user inquiries without reducing speed considerably.

2.1.2.3.5 Portability requirements

NFR: The website should be useful and accessible on a variety of devices and screen sizes, including mobile devices.

2.1.2.3.6 Scalability Requirements

NFR: The website should be scalable horizontally by adding additional servers or resources when demand increases.

NFR: The website shall handle 2000 users at the same time.

2.1.2.3.7 Reliability Requirements:

NFR: The website should be able to capture and address the issues or errors as soon as possible by implementing appropriate error handling and logging.

2.1.3 Proposed Solutions

According to the well-known story of a man with a difficult financial situation who gets a house as a result of exchanging much stuff, starting from a red paper clip, then a door handle and a food grill, until he exchanged a role in a movie for a house. From this story, our website was born to open the business door for everyone. This website is a good point for anyone to start his/her own business. They don't need capital (money); all they need is something they don't want but that has real value to others, so instead of throwing it out where no one will use it, make it your joker card and enter the market with it. Even if you don't have anything tangible to provide, that must not stop you because our website extends your chances of entering the market by allowing you to pay by your time so that you can provide a service to get the product that you want. With our website, there is no place for excuses to start your business and fulfill your dreams!

2.1.4 Alternative Solutions

Our main goal with this website is to encourage people to initiative and inculcate this in them, but at the same time, the website helps spread the principles of reuse. Instead of people throwing their property, they can display the things that are in a good condition on the website and people come to barter or borrow them, and this idea helps to create a spirit of cooperation and initiative, but at the same time helps to preserve the environment, this is in line with the Kingdom of Saudi Arabia's Vision 2030

Chapter 3 – Design Considerations

Chapter 3 DESIGN CONSIDERATIONS

3.1 Design Constraints

3.1.1 Hardware and software environment

Hardware:

- **Servers:** The Django application needs servers to run, store user data, and manage transactions. Our local host is often <http://127.0.0.1:8000>.
- **Storage apparatuses:** We need storage apparatuses to keep user information, item listings, and transaction logs, the system will require some sort of storage. Hard disk drives (HDDs) and solid-state drives (SSDs) may be included.
- **Network architecture:** High-speed network infrastructure, including load balancers, routers, switches, and firewalls, may be necessary to make sure the system can manage a lot of requests and deliver dependable service.
- **Security equipment:** The system may need security devices like firewalls, intrusion detection systems, and anti-virus software to defend it from attacks and illegal access. It could also be necessary to physically secure the servers in a data center or other security area.
- **User devices:** Users will use their own devices, such as cellphones, tablets, or PCs, to access the system.

Software:

The Django web framework, which offers a high-level Pythonic interface for creating web applications, will be used to develop the system.

- **Web server:** A web server will be used to run the Django application.
- **Database:** The system will keep user data, item listings, and transaction data in a database. We use the admin DB that Django supports as a variety of databases.

- **User authentication and authorization:** The system will need to verify users' identities before granting them permission to carry out certain tasks like listing creation or transaction completion. Django offers integrated authentication and authorization features that may be adjusted to the system's requirements.
- **Backend system:** The backend system manages user data, processes business logic, such as calculating rewards for successful swaps or gifts, and responds to user application requests. The creation of this system can involve the use of a computer language like Python.

3.1.2 End user characteristics

The development and operation of a swapping website may be affected by various stakeholders. We have some common stakeholders on our website, but there can be more depending on context and purpose:

- **Users:** They are the individuals or organizations who engage in swapping, bartering, and gifting activities on the platform.
- **Website Owners/Operators:** The individuals or organizations that own and operate the swapping, bartering, and gifting website are important stakeholders.
- **Developers and Designers:** The professionals responsible for building and designing the website are stakeholders in its development.
- **Marketers:** Marketing professionals or teams play a vital role in promoting the swapping website, attracting users, and increasing engagement.
- **Customer Support:** The customer support team or representatives are stakeholders who handle user inquiries, address issues, and aid.
- **Legal and Compliance Teams:** Stakeholders in the legal and compliance fields provide guidance on issues like privacy, data protection, intellectual property, and user agreements.
- **Sponsors:** Swapping, bartering, and gifting website includes advertising or sponsorship arrangements, the advertisers and sponsors become stakeholders.
- **Community and Society:** The broader community or society impacted by the Swapping, bartering, and gifting website can also be considered stakeholders. This includes local communities, environmental organizations, or other groups affected by the swapping activities promoted or facilitated on the website.

3.2 Architectural Strategies

3.2.1 Algorithm to be used.

- **Template Conversion Algorithm:** to convert existing website design elements to fit the new template.
- **Data Validation Algorithm:** for checking and handling data integrity and consistency.
- **Responsive Design Algorithm:** it ensures the website displays properly on different devices and screen sizes.
- **The security Algorithm:** it encompasses encryption, secure communication, and user authentication methods to safeguard sensitive data.

3.2.2 Reuse of existing software components

Reuse concepts must be in the DNA of every professional developer, and we are, so in this project we use already built open-source templates for website page styles; we also use login with Google accounts as a service provided by a third party; and we use an already built component to translate the website to Arabic. All of this contributes to our website being as high-quality as possible. But on the other side, we pay time and effort to adapt them as we need because there is no one-size-fits-all component for all the projects.

3.2.3 Project management strategies

As we mentioned earlier in this report, we are following waterfall methodology. Waterfall is approach involves a linear sequential process, with each phase of the project completed before moving on to the next. This table shows how we implement this management strategy.

No	Task	Duration
1	Decide the idea of the project	2 weeks
2	Write the requirement of the system	1 week
3	Prototype the system	5 days
3	Design the system	4 days
4	Implement the system	1 week
5	Testing and validating the system	2 days

Table 1 – Timeline of the project

3.2.4 Development method

To any build software, which is in our case is a website, we follow specific processes, we use the Plan-driven process with the Waterfall methodology. This methodology involves planning all the main activities in advance and measuring the project's progress against this plan.

We began with the Analysis phase, where we collected and elicited the system requirements. We then categorized these requirements into functional and non-functional requirements. Next, we moved to the Design phase, which acted as a bridge between the Analysis and Implementation phase. The purpose of this phase was to visualize the system's functionality by creating diagrams that illustrate that and make the life of the developer easier; because the diagrams show what the system consists of, or what are components that involve building this software.

After the Design stage, we moved to the Implementation phase, where we began the actual coding process. This phase involved converting the diagrams into code. Finally, we reached the Testing and Validation phase, where we ensured that the system's functionality met its intended purpose.

3.2.5 Future enhancements/plan

Our platform currently provides basic functionality to our customers, but we are committed to expanding its capabilities to make it a leading competitor in both local and global markets. In this section, we will outline specific areas we plan to enhance in terms of functionality, and software development and deployment.

Regarding functionality, we recognize the importance of incorporating AI features into our platform, such as searching through AI, autosuggest using search data, AI-Assisted shopping. Additionally in terms of quality attributes, we plan to improve usability by implementing a dark mode. In terms of functional requirements, adding a history feature to user profiles.

In terms of software development and deployment, our goal is to make our product as maintainable as possible, enabling us to quickly adjust to changes in the marketplace. To achieve this, we plan to follow software engineering principles such as writing clear and concise code with detailed method specifications. We also aim to improve accessibility by implementing features that increase the percentage of the website that is accessible to users with disabilities such as resetting text size and contrast and adding alt text for images side by side of responsive website concept. Finally, we plan to construct our software architecture to deploy on the cloud with micro services as a design pattern.

By implementing these enhancements, we believe our platform will become a leading competitor in the market and provide a better user experience for our customers.

Chapter 4 – System Design

Chapter 4 SYSTEM DESIGN

4.1 System Architecture and Program Flow

4.1.0 Use Case Diagrams

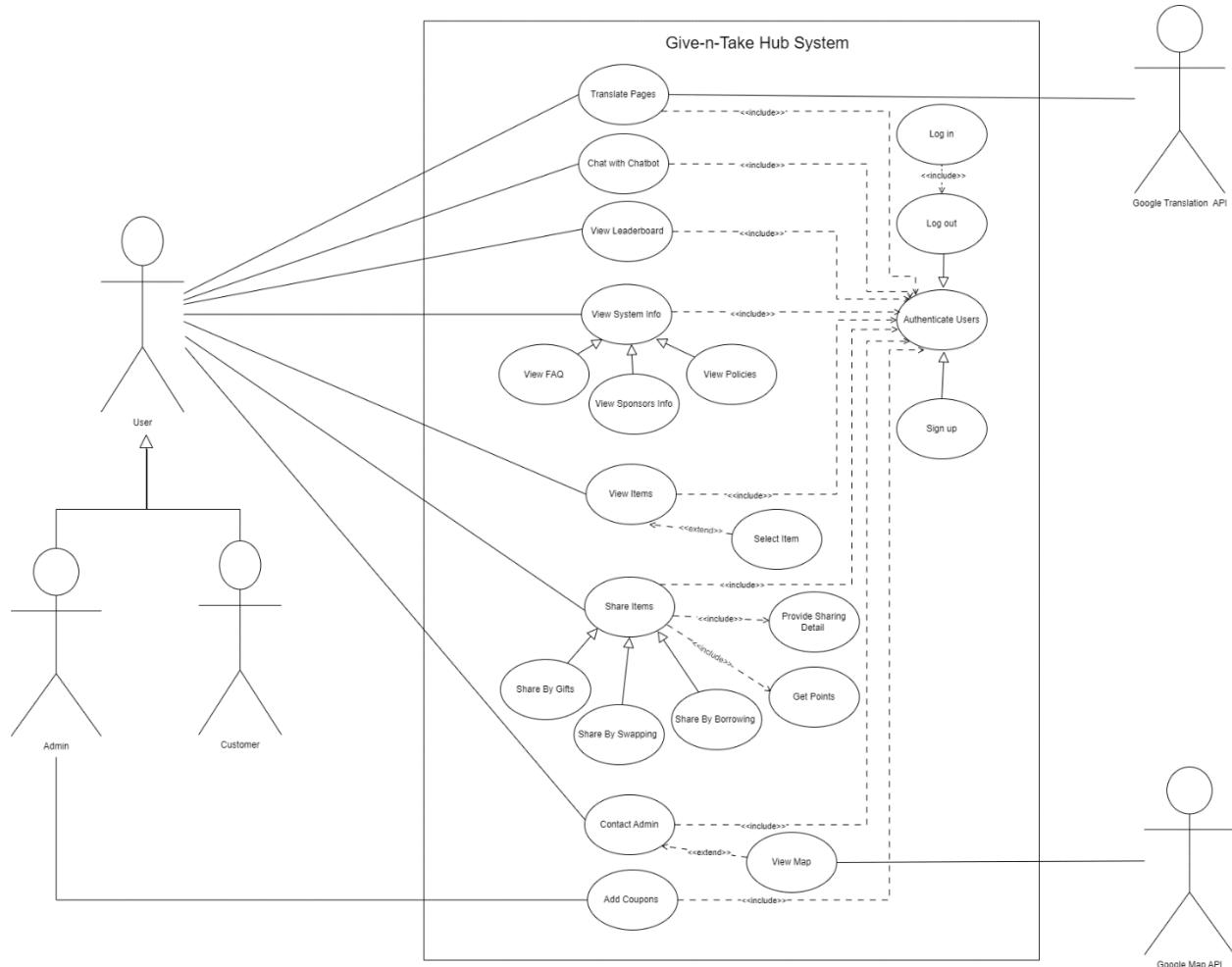


Figure 4.1 – Use Case Diagram

4.1.1 Major modules

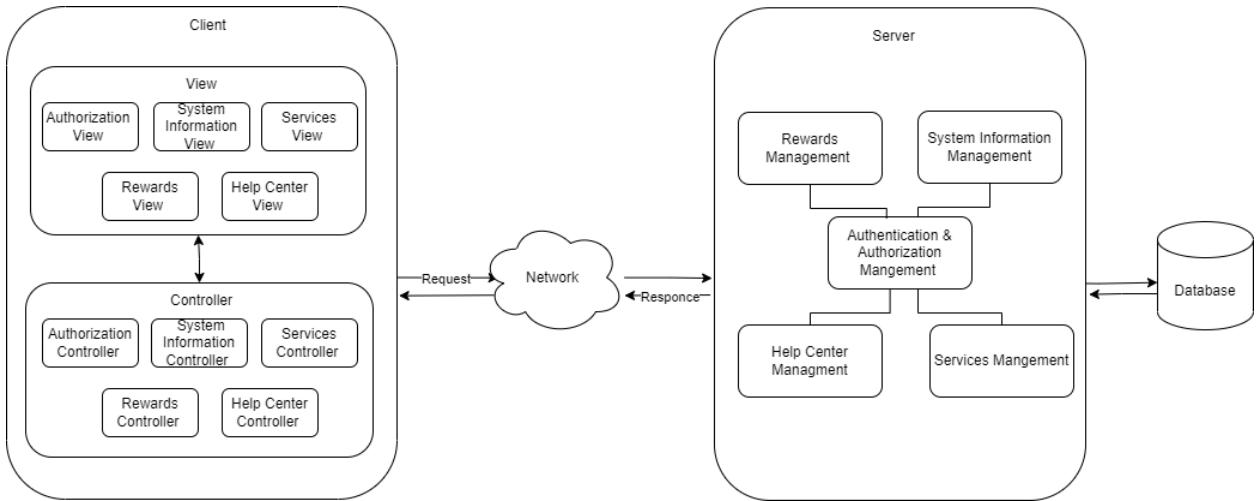


Figure 4.2 – Overall Architecture

4.1.2 Sub modules

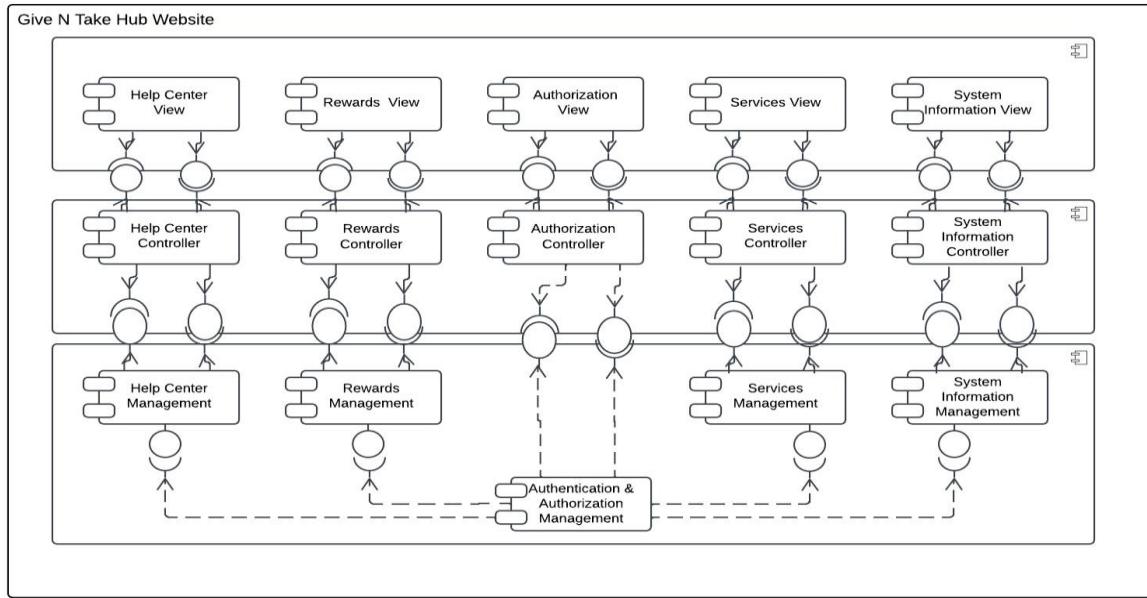


Figure 4.3 – Component Diagram

4.2 Detailed System Design

4.2.1 Detailed component description

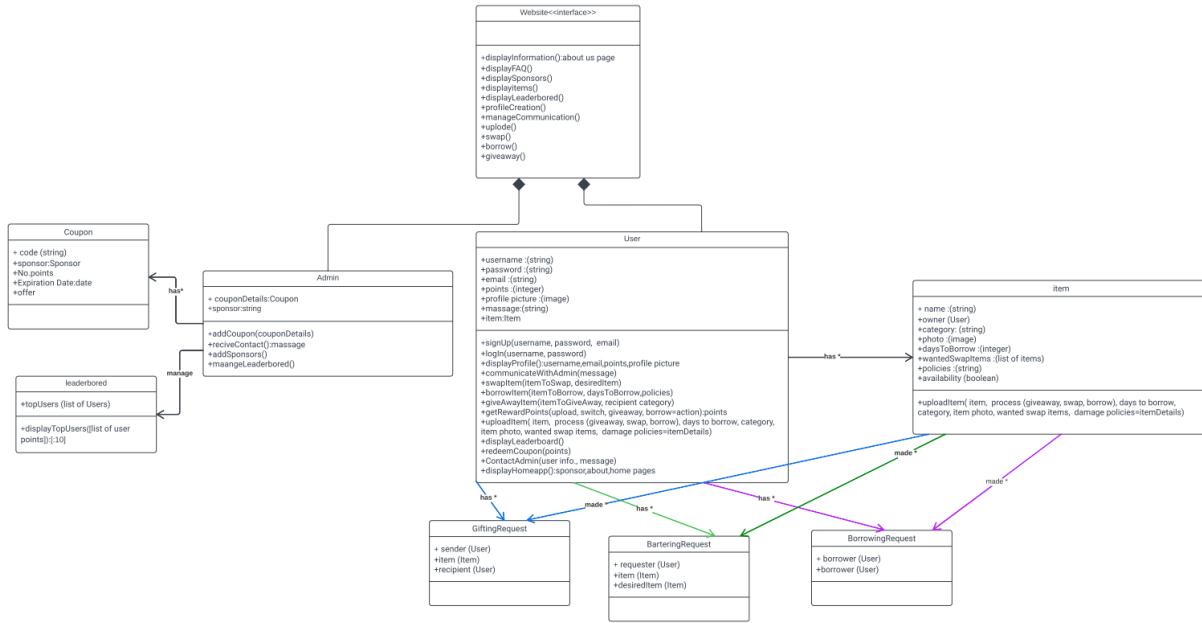


Figure 4.4 – Class Diagram

Chapter 5 – Implementation and Validation

Chapter 5 IMPLEMENTATION AND VALIDATION

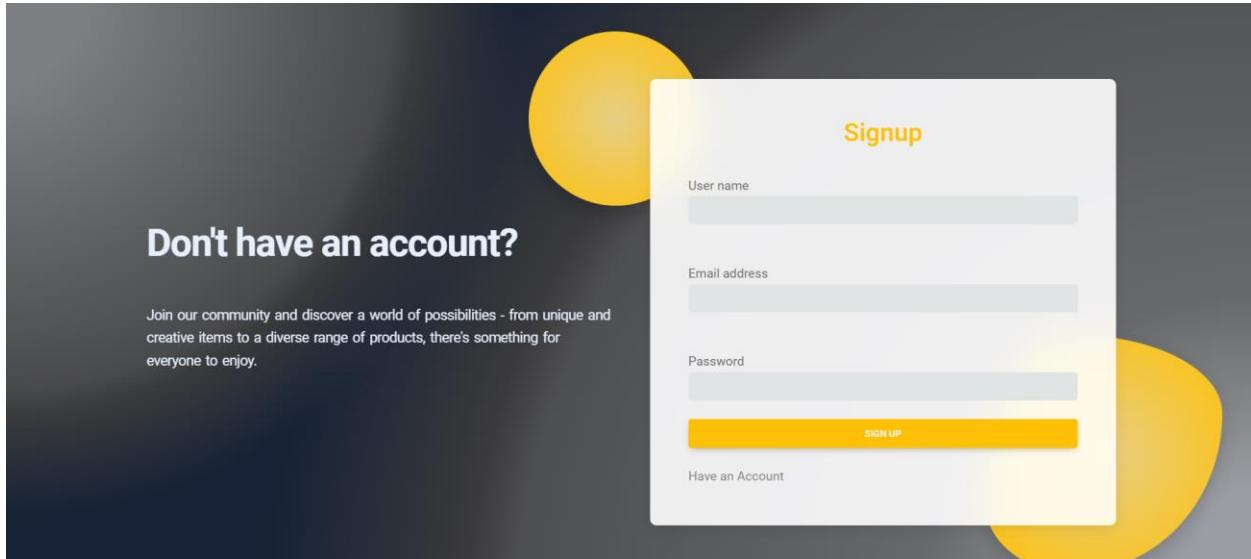


Figure 1 – Signup Page

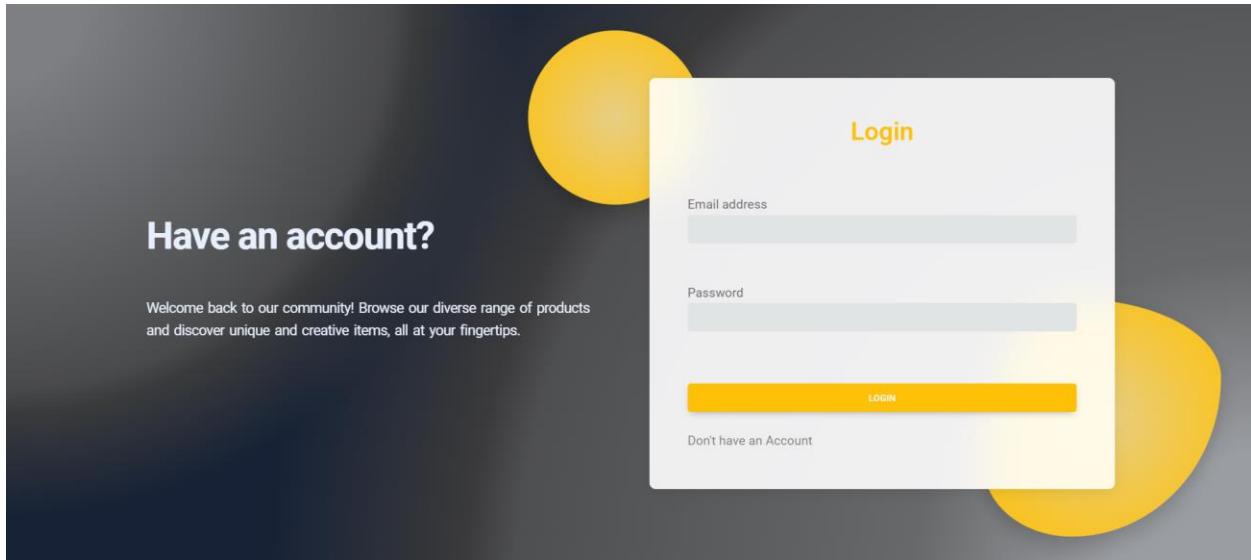


Figure 2 – Login Page

Give-N-Take-Hub

The screenshot shows the homepage of the Give-N-Take-Hub website. At the top, there is a navigation bar with links for About, Contact, FAQs, Sign up, Log in, and Log out. On the right side of the navigation bar are language selection and Google Translate options, along with Customer Service contact information (+014 345 67890). The main header features the text "GIT N TAKE HUB" in a bold, yellow-bordered box. Below the header is a secondary navigation bar with a "Services" dropdown menu and links for Home, Promotion, Leader Board, and Add Item. A large banner at the top of the content area says "WELCOME TO OUR WORLD!" and features three promotional boxes: "Swap Items" (PORT #1), "Borrow Items" (PORT #2), and "Gift Items" (PORT #3). Below these are two more promotional boxes: "Start Your Business" (PORT #4) featuring a man and woman in business attire, and "Get Your Prize!" (PORT #5) featuring wrapped gifts. The footer contains sections for "GET IN TOUCH" (with address, email, and phone number), "QUICK SHOP" (links to Home, Borrow items, Gift items, Swap items, and Promotion), "MY ACCOUNT" (links to Contact Us, About Us, FAQs, and Leader bord), and "SOCIAL MEDIA ACCOUNTS" (links to various platforms like Twitter, Facebook, LinkedIn, and Instagram). A copyright notice at the bottom states: "© All Rights Reserved. Developed by Sana, Salwa, Samah, Fatima and Shatha".

Figure 3 – Home Page

Chapter 5 IMPLEMENTATION AND VALIDATION

About Contact FAQs Sign up Log in Log out Select Language Powered by Google Translate

GIT N TAKE HUB Customer Service +014 345 67890

☰ Services Home Promotion Leader Board Add Item

ABOUT US

As junior Software Engineering students who determined to make dramatic change in the world, we have developed unique idea for our web development course at UPM and for the marketing industry as a general, which is website serves as an online marketplace that facilitates and provides a set of three primary services, namely, borrowing, bartering, and gifting. Whether you're looking to one of these services, our platform makes it easy and accessible to you.

Our Idea:
According to the well-known story of a man who gets a house as a result of exchanging much stuff, starting from a red paper clip, then a door handle and a food grill, until he exchanged a role in a movie for a house. From this story, our website was born to open the business door for everyone. Our users can exchange something they no longer want but that has value to others, provide a service in exchange for the product they want. With our website, there is no place for excuses to start your business and fulfill your dreams!

Our Goal:
Our main goal with this website is to encourage people to initiative and inculcate this in them, but at the same time, the website helps spread the principles of reuse. Instead of people throwing their property, they can display the things that are in a good condition on the website and people come to barter or borrow them, and this idea helps to create a spirit of cooperation and initiative, but at the same time helps to preserve the environment, this is in line with the Kingdom of Saudi Arabia's Vision 2030.

OUR QUALITY ATTRIBUTES

Quality Product Free Shipping 24/7 Support

OUR SUCCESS PARTNERS

TechCom BluePhlare DATAxCHANGE WORKAPPLY

GET IN TOUCH

We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.

140 Street, Madina, KSA
info@MultiShop.com
+014 345 67890

QUICK SHOP

- Home
- Borrow items
- Gift items
- Swap items
- Promotion

MY ACCOUNT

- Contact Us
- About Us
- FQAs
- Leader bord

SOCIAL MEDIA ACCOUNTS

To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US

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Figure 4 – About Page

About Contact FAQs Sign up Log in Log out Select Language Powered by Google Translate

GIT N TAKE HUB

Services Home Promotion Leader Board Add Item Customer Service +014 345 67890

CONTACT US

Your Name
Your Email
Subject
Message

Send Message

1460 Street, Madina, KSA
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+014 345 67890

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GET IN TOUCH

We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.

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- > Home
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- > Gift items
- > Swap items
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Figure 5 – Contact Page

Chapter 5 IMPLEMENTATION AND VALIDATION

The screenshot shows the homepage of the GIT N TAKE HUB website. At the top, there is a navigation bar with links for About, Contact, FAQs, Sign up, Log in, and Log out. On the right side of the top bar, there is a "Select Language" dropdown menu and a "Powered by Google Translate" link. Below the top bar, the main header features the "GIT N TAKE HUB" logo. A secondary navigation bar below the header includes a "Services" dropdown menu and links for Home, Promotion, Leader Board, and Add Item.

The main content area is titled "Frequently Asked Questions". It contains six questions, each preceded by a yellow plus sign icon:

- what is a Give-N-Take Hub site??
- What's new in a Give-N-Take Hub website if we can exchange goodson social networking sites like Facebook?
- Key features of the Give-N-Take Hub website include:
- What commodities are allowed to be exchanged?
- Is a login required to use the Give-N-Take Hub website?
- How will the goods be delivered to the two parties to the barter?

At the bottom of the page, there is a footer section with four columns: "GET IN TOUCH", "QUICK SHOP", "MY ACCOUNT", and "SOCIAL MEDIA ACCOUNTS". The "GET IN TOUCH" column contains contact information: address (140 Street, Madina, KSA), email (info@MultiShop.com), and phone number (+014 345 67890). The "QUICK SHOP" column lists links for Home, Borrow items, Gift items, Swap items, and Promotion. The "MY ACCOUNT" column lists links for Contact Us, About As, FAQs, and Leader bord. The "SOCIAL MEDIA ACCOUNTS" column encourages users to stay up-to-date with news and updates by subscribing via various social media platforms. It also features a "FOLLOW US" section with icons for Twitter, Facebook, LinkedIn, and Instagram.

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Figure 6 – FQAs Page

Give-N-Take-Hub

About Contact FAQs Sign up Log in Log out

Select Language... Power by Translate

GIT N TAKE HUB

Customer Service +014 345 67890

☰ Services Home Promotion Leader Board Add Item

BORROWED ITEMS

Camera

[More Details](#)

Clean Architecture Book

[More Details](#)

Plastic Chairs

[More Details](#)

Repair Tool Bag

[More Details](#)

Sport Tools

[More Details](#)

Trekking Tent

[More Details](#)

Wedding Dress

[More Details](#)

GET IN TOUCH

We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.

📍 140 Street, Medina, KSA
✉️ info@MultiShop.com
📞 +014 345 67890

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QUICK SHOP

- › Home
- › Borrow Items
- › Gift Items
- › Swap Items
- › Promotion

MY ACCOUNT

- › Contact Us
- › About Us
- › FAQs
- › Leader board

SOCIAL MEDIA ACCOUNTS

To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US

Figure 7 – Borrowed Item Page

Chapter 5 IMPLEMENTATION AND VALIDATION

The screenshot shows a web application interface for a platform called "GIT N TAKE HUB". At the top, there is a navigation bar with links for "About", "Contact", "FAQs", "Sign up", "Log in", and "Log out". On the right side of the top bar, there is a "Select Language" dropdown menu and a note that it is "Powered by Google Translate". Below the top bar, the main header "GIT N TAKE HUB" is displayed in a yellow and black color scheme. To the right of the header, there is a "Customer Service" phone number "+014 345 67890". The main content area has a dark header bar with a "Services" dropdown and links for "Home", "Promotion", "Leader Board", and "Add Item". The main content area features a large image of a black camera with a lens attached. To the right of the image, the word "Camera" is displayed in a large, bold font. Below the title, there are several sections with yellow headers: "Owner: Samah Shamma", "Phone: 550427582", and "Description:". The "Description" section contains a paragraph of text about the quality and inspection of used cameras. At the bottom of the page, there is a footer section titled "GET IN TOUCH" containing contact information: address (140 Street, Madina, KSA), email (info@MultiShop.com), and phone number (+014 345 67890). There are also sections for "QUICK SHOP" (links to Home, Borrow items, Gift items, Swap items, and Promotion), "MY ACCOUNT" (links to Contact Us, About Us, FAQs, and Leader bord), and "SOCIAL MEDIA ACCOUNTS" (links to various social media platforms like Twitter, Facebook, LinkedIn, and Instagram). A note in the "SOCIAL MEDIA ACCOUNTS" section encourages users to stay up-to-date with news and updates by subscribing. The footer also includes a copyright notice: "© All Rights Reserved. Developed by Sana, Salwa, Samah, Fatima and Shatha".

Figure 8 – Details Borrowed Item Page

Give-N-Take-Hub

The screenshot shows the 'GIFT ITEMS' section of the website. It features four items with detailed descriptions and 'More Details' buttons:

- Wooden Tool Box Toys**: An open wooden toolbox containing various colorful plastic tools like wrenches, hammers, and screwdrivers.
- Perfume**: A clear glass bottle with a black cap containing yellow liquid.
- Suit**: A dark grey or brown men's suit jacket with a white shirt and a blue tie underneath.
- Baby Clothes**: A baby outfit consisting of a striped t-shirt with a cartoon animal print, light blue shorts, and a small hat.

Below the items, there are four sections: **GET IN TOUCH**, **QUICK SHOP**, **MY ACCOUNT**, and **SOCIAL MEDIA ACCOUNTS**.

GET IN TOUCH includes contact information:

- We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.
- 📍 140 Street, Medina, KSA
- ✉️ info@MultiShop.com
- 📞 +014 345 67890

QUICK SHOP links:

- > Home
- > Borrow Items
- > Gift Items
- > Swap Items
- > Promotion

MY ACCOUNT links:

- > Contact Us
- > About Us
- > FAQs
- > Leader board

SOCIAL MEDIA ACCOUNTS links:

To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US

[Twitter icon](#) [Facebook icon](#) [LinkedIn icon](#) [Instagram icon](#)

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Figure 9 – Gift Item Page

Chapter 5 IMPLEMENTATION AND VALIDATION

The screenshot shows a web application interface for a platform called "GIT N TAKE HUB". At the top, there is a navigation bar with links for "About", "Contact", "FAQs", "Sign up", "Log in", and "Log out". On the right side of the top bar, there is a "Select Language" dropdown menu powered by Google Translate. Below the top bar, the main header features the "GIT N TAKE HUB" logo. To the right of the logo, there is a "Customer Service" section with the phone number "+014 345 67890". The main content area has a dark header with a "Services" dropdown and links for "Home", "Promotion", "Leader Board", and "Add Item". The main content area displays a product listing for "Baby Clothes". It includes a photograph of a baby outfit (a striped long-sleeved shirt with a cartoon print, light blue pants, and white socks) and a small potted plant. To the right of the image, the title "Baby Clothes" is displayed in large bold letters. Below the title, the owner's name "Reem Khaled" and phone number "551013909" are listed. A "Description" section follows, containing a paragraph about the baby clothes being suitable for 0-3 months and made from soft and comfortable materials. At the bottom of the page, there is a footer section titled "GET IN TOUCH" with contact information: address (140 Street, Madina, KSA), email (info@MultiShop.com), and phone number (+014 345 67890). There are also sections for "QUICK SHOP" (links to Home, Borrow items, Gift items, Swap items, and Promotion), "MY ACCOUNT" (links to Contact Us, About Us, FAQs, Leader bord, and Promotion), and "SOCIAL MEDIA ACCOUNTS" (links to various social media platforms like Twitter, Facebook, LinkedIn, and Instagram). The footer also includes a copyright notice: "© All Rights Reserved. Developed by Sana, Salwa, Samah, Fatima and Shatha".

Figure 10 – Details Borrowed Item Page

Give-N-Take-Hub

The screenshot shows the 'SWAP ITEMS' section of the website. It displays a grid of eight items, each with a thumbnail image, a title, and a 'More Details' button.

- Painting Wall** (Thumbnail: Abstract painting)
- Web Development Book** (Thumbnail: Two books titled 'HTML & CSS' and 'JAVASCRIPT & JQUERY')
- Baby Car Seat** (Thumbnail: Baby car seat)
- Convactor Heater** (Thumbnail: White convactor heater)
- Hair Clips** (Thumbnail: A bunch of black hair clips)
- iPhone 14 Pro** (Thumbnail: Back view of an iPhone 14 Pro)
- Coffee Mugs** (Thumbnail: Four pink coffee mugs)

GET IN TOUCH
We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.
140 Street, Madina, KSA
info@MultiShop.com
+014 345 67890

QUICK SHOP
Home
Borrow Items
Gift Items
Swap Items
Promotion

MY ACCOUNT
Contact Us
About Us
FAQs
Leader bord

SOCIAL MEDIA ACCOUNTS
To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms.
FOLLOW US
[V](#) [f](#) [in](#) [o](#)

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Figure 11 – Swapped Item Page

About Contact FAQs Sign up Log in Log out Select Language
Powered by Google Translate

GIT N TAKE HUB

Customer Service
+014 345 67890

≡ Services ▾ Home Promotion Leader Board Add Item



Hair Clips

Owner: Hannah Jalal
Phone: 5566332442

Description:

I have a collection of hair clips and I am looking to switch things up. This can be a fun way to experiment with new styles and discover unique and interesting designs. Whatever the choice, swapping hair clips with someone else can be a great way to connect with others and maybe the Demi Skipper's story will happen again ;)

GET IN TOUCH

We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.

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📞 +014 345 67890

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QUICK SHOP

- Home
- Borrow items
- Gift items
- Swap items
- Promotion

MY ACCOUNT

- Contact Us
- About Us
- FAQs
- Leader bord

SOCIAL MEDIA ACCOUNTS

To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US

Figure 12 – Details Swapped Item Page

The screenshot shows the 'Redeem Coupons' section of the website. It displays three separate coupon offers:

- Jarir:** Needed Points: 7, Expiration Date: May 24, 2023, Unique Code: 34566. A yellow button at the bottom says "Thank You For The Code Redeem".
- Noon:** Needed Points: 23, Expiration Date: May 30, 2023, Unique Code: GGG6666. A yellow button at the bottom says "Thank You For The Code Redeem".
- Extra:** Needed Points: 14, Expiration Date: May 29, 2023, Unique Code: 666666. A yellow button at the bottom says "Thank You For The Code Redeem".

GET IN TOUCH

We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.

📍 140 Street, Madina, KSA
✉️ info@MultiShop.com
📞 +014 345 67890

QUICK SHOP

- Home
- Borrow items
- Gift items
- Swap items
- Promotion

MY ACCOUNT

- Contact Us
- About Us
- FAQs
- Leader bord

SOCIAL MEDIA ACCOUNTS

To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US

Twitter icon Facebook icon LinkedIn icon Instagram icon

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Figure 13 – Promotion Page

Chapter 5 IMPLEMENTATION AND VALIDATION

The screenshot shows the Leaderboard page of the GIT N TAKE HUB website. At the top, there is a navigation bar with links for About, Contact, FAQs, Sign up, Log in, Log out, Select Language (Powered by Google Translate), Customer Service (+014 345 67890), and a Services dropdown menu. Below the navigation is a yellow header bar with Home, Promotion, Leader Board, and Add Item links. The main content area is titled "Leaderboard" and displays a table with the following data:

Rank	Username	Points
1	Salwa	48
2	Fatima	31
3	Noor	26
4	Samah	20
5	Sara	15
6	Shatha	13
7	Mohammad	10
8	Sara	9
9	Yaman	9
10	Khaled	8

Below the table, the time is displayed as 11:39:55 PM. The footer contains sections for "GET IN TOUCH", "QUICK SHOP", "MY ACCOUNT", and "SOCIAL MEDIA ACCOUNTS". It also includes copyright information and social media links.

GET IN TOUCH
We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.
📍 140 Street, Madina, KSA
✉️ info@MultiShop.com
📞 +014 345 67890

QUICK SHOP
▶ Home
▶ Borrow Items
▶ Gift Items
▶ Swap Items
▶ Promotion

MY ACCOUNT
▶ Contact Us
▶ About Us
▶ FAQs
▶ Leader bord

SOCIAL MEDIA ACCOUNTS
To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms

FOLLOW US
Follow us on Twitter, Facebook, LinkedIn, and Instagram.

© All Rights Reserved. Developed by Sana, Salwa, Samah, Fatima and Shatha

Figure 14 – Leaderboard Page

The screenshot shows the 'REQUEST' form on the website. At the top, there is a navigation bar with links for About, Contact, FAQs, Sign up, Log in, and Log out. On the right side of the navigation bar, there is a language selection dropdown labeled 'Select Language' and a note 'Powered by Google Translate'. Below the navigation bar, the website's logo 'GIT N TAKE HUB' is displayed. To the right of the logo, there is customer service information: 'Customer Service +014 345 67890'. The main content area has a dark header with a yellow 'Services' dropdown menu and links for Home, Promotion, Leader Board, and Add Item. The 'REQUEST' section has several input fields: 'Item Name', 'Owner Name', 'Phone Number', a dropdown menu for 'Request type', and a large text area for 'Description'. Below these fields, there is a section for uploading an image with a 'Choose File' button and a note 'No file chosen'. A yellow 'Send Request' button is located at the bottom left of the form. At the bottom of the page, there is a footer with sections for 'GET IN TOUCH', 'QUICK SHOP', 'MY ACCOUNT', and 'SOCIAL MEDIA ACCOUNTS'. The 'GET IN TOUCH' section contains contact information: address (140 Street, Madina, KSA), email (info@MultiShop.com), and phone number (+014 345 67890). The 'QUICK SHOP' section lists links for Home, Borrow items, Gift items, Swap items, and Promotion. The 'MY ACCOUNT' section lists links for Contact Us, About Us, FAQs, and Leader bord. The 'SOCIAL MEDIA ACCOUNTS' section encourages users to stay up-to-date with news and updates, and provides links to various social media platforms (Twitter, Facebook, LinkedIn, Instagram). The footer also includes a copyright notice: '© All Rights Reserved. Developed by Sana, Salwa, Samah, Fatima and Shatha'.

Figure 15 – Add Item Page

Chapter 6 - Appendices

6.1 Link of the Website

<http://salwashamma.pythonanywhere.com/>

6.2 Demo

https://pmqu-my.sharepoint.com/:v/g/personal/4010378_upm_edu_sa/ESPI4vkHWJNCpRYSnBV04FkBbxYnzWrBq80WHJu4TO4-xw?e=vfjU0a

6.3 Appendix A CODE

6.3.1 Page App

6.3.1.1 Template

1. Home Page

```
{% extends 'base.html' %}  
{% load static %}  
{% block content %}  
<!DOCTYPE html>  
<body>  
    <!-- Carousel Start -->  
    <div class="container-fluid mb-3">  
        <h2 class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">WELCOME  
            TO OUR WORLD!</span></h2>  
        <div class="row px-xl-5">  
            <div class="col-lg-8">  
                <div id="header-carousel" class="carousel slide carousel-fade mb-30 mb-lg-0" data-ride="carousel">  
                    <div class="carousel-inner">  
                        <div class="carousel-item position-relative active" style="height: 430px;">  
                              
                            <div class="carousel-caption d-flex flex-column align-items-center justify-content-center">  
                                <div class="p-3" style="max-width: 700px;">  
                                    <h6 class="text-white text-uppercase">Port #1</h6>  
                                    <h1 class="display-4 text-white mb-3 animate__animated animate__fadeInDown">Swap  
                                        Items</h1>  
                                    <p class="mx-md-5 px-5 animate__animated animate__bounceIn">Don't throw out  
                                        something with value. It could be your joker card to enter the market without  
                                        capital!</p>  
                                    <a class="btn btn-outline-light py-2 px-4 mt-3 animate__animated animate__fadeInUp"  
                                        href="{% url 'swapItems' %}">Shop Now</a>  
                                </div>  
                            </div>  
                        </div>  
                    </div>  
                </div>  
            </div>  
            <div class="col-lg-4">  
                <div class="product-offer mb-30" style="height: 200px;">  
                      
                    <div class="offer-text">  
                        <h6 class="text-white text-uppercase">Port #2</h6>  
                        <h3 class="text-white mb-3">Borrow Items</h3>  
                        <a href="{% url 'borrowItems' %}" class="btn btn-primary">Shop Now</a>  
                    </div>  
                </div>  
                <div class="product-offer mb-30" style="height: 200px;">  
                      
                    <div class="offer-text">  
                        <h6 class="text-white text-uppercase">Port #3</h6>  
                        <h3 class="text-white mb-3">Gift Items </h3>  
                        <a href="{% url 'giftItems' %}" class="btn btn-primary">Shop Now</a>  
                    </div>  
                </div>  
            </div>  
        </div>  
    </div>  
    <!-- Carousel End -->
```

Figure 1.1 – Home HTML File Part 1

```
</div>  
    </div>  
    </div>  
    </div>  
    <div class="col-lg-4">  
        <div class="product-offer mb-30" style="height: 200px;">  
              
            <div class="offer-text">  
                <h6 class="text-white text-uppercase">Port #2</h6>  
                <h3 class="text-white mb-3">Borrow Items</h3>  
                <a href="{% url 'borrowItems' %}" class="btn btn-primary">Shop Now</a>  
            </div>  
        </div>  
        <div class="product-offer mb-30" style="height: 200px;">  
              
            <div class="offer-text">  
                <h6 class="text-white text-uppercase">Port #3</h6>  
                <h3 class="text-white mb-3">Gift Items </h3>  
                <a href="{% url 'giftItems' %}" class="btn btn-primary">Shop Now</a>  
            </div>  
        </div>  
    </div>  
    </div>  
    <!-- Carousel End -->
```

Figure 1.2 – Home HTML File Part 2

Chapter 6 - Appendices

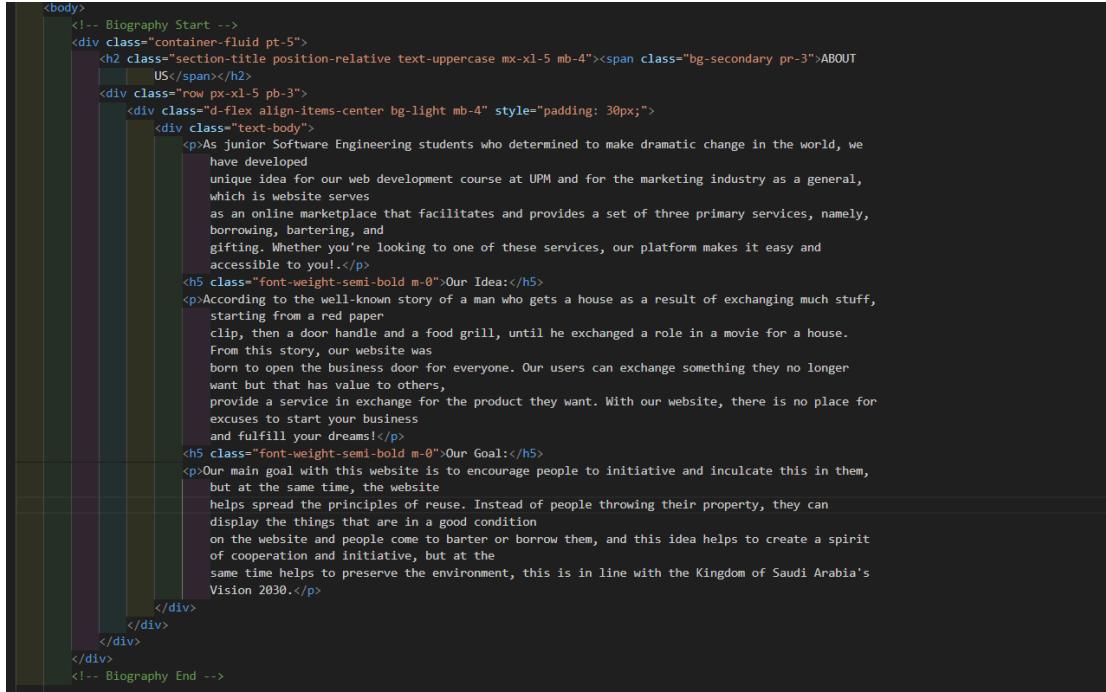
```
<!-- Offer Start -->
<div class="container-fluid pt-5 pb-3">
    <h2 class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">WE HAVE
        | MORE ...</span></h2>
    <div class="row px-xl-5">
        <div class="col-md-6">
            <div class="product-offer mb-30" style="height: 300px;">
                
                <div class="offer-text">
                    <h6 class="text-white text-uppercase">Port #4</h6>
                    <h3 class="text-white mb-3">Start Your Bussiness</h3>
                    <a href="{% url 'request' %}" class="btn btn-primary">Add Item</a>
                </div>
            </div>
        </div>
        <div class="col-md-6">
            <div class="product-offer mb-30" style="height: 300px;">
                
                <div class="offer-text">
                    <h6 class="text-white text-uppercase">Port #5</h6>
                    <h3 class="text-white mb-3">Get Your Prize!</h3>
                    <a href="{% url 'reward:redem' %}" class="btn btn-primary">Browse It</a>
                </div>
            </div>
        </div>
    </div>
<!-- Offer End -->
</body>
</html>
```

Figure 1.3 – Home HTML File Part 3

2. About Page

```
1  {% extends 'base.html' %} 
2  {% load static %} 
3  {% block content %} 
4  <!DOCTYPE html> 
5  <html lang="en"> 
6      <head> 
7          <meta charset="utf-8"> 
8          <title>MultiShop - Online Shop Website</title> 
9      </head>
```

Figure 2.1 – About HTML File



```
<body>
  <!-- Biography Start -->
  <div class="container-fluid pt-5">
    <h2 class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">ABOUT</span></h2>
    <div class="row px-xl-5 pb-3">
      <div class="d-flex align-items-center bg-light mb-4" style="padding: 30px;">
        <div class="text-body">
          <p>As junior Software Engineering students who determined to make dramatic change in the world, we have developed unique idea for our web development course at UPM and for the marketing industry as a general, which is website serves as an online marketplace that facilitates and provides a set of three primary services, namely, borrowing, bartering, and gifting. Whether you're looking to one of these services, our platform makes it easy and accessible to you!</p>
          <h5 class="font-weight-semi-bold m-0">Our Idea:</h5>
          <p>According to the well-known story of a man who gets a house as a result of exchanging much stuff, starting from a red paper clip, then a door handle and a food grill, until he exchanged a role in a movie for a house. From this story, our website was born to open the business door for everyone. Our users can exchange something they no longer want but that has value to others, provide a service in exchange for the product they want. With our website, there is no place for excuses to start your business and fulfill your dreams!</p>
          <h5 class="font-weight-semi-bold m-0">Our Goal:</h5>
          <p>Our main goal with this website is to encourage people to initiative and inculcate this in them, but at the same time, the website helps spread the principles of reuse. Instead of people throwing their property, they can display the things that are in a good condition on the website and people come to barter or borrow them, and this idea helps to create a spirit of cooperation and initiative, but at the same time helps to preserve the environment, this is in line with the Kingdom of Saudi Arabia's Vision 2030.</p>
        </div>
      </div>
    </div>
  </div>
<!-- Biography End -->
```

Figure 2.2 – About HTML File

Chapter 6 - Appendices

```
<!-- Featured Start -->
<div class="container-fluid pt-5">
  <h2 class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">OUR
    QUALITY ATTRIBUTES</span></h2>
  <div class="row px-xl-5 pb-3">
    <div class="col-lg-3 col-md-6 col-sm-12 pb-1">
      <div class="d-flex align-items-center bg-light mb-4" style="padding: 30px;">
        <h1 class="fa fa-check text-primary m-0 mr-3"></h1>
        <h5 class="font-weight-semi-bold m-0">Quality Product</h5>
      </div>
    </div>
    <div class="col-lg-3 col-md-6 col-sm-12 pb-1">
      <div class="d-flex align-items-center bg-light mb-4" style="padding: 30px;">
        <h1 class="fa fa-shipping-fast text-primary m-0 mr-2"></h1>
        <h5 class="font-weight-semi-bold m-0">Free Shipping</h5>
      </div>
    </div>
    <div class="col-lg-3 col-md-6 col-sm-12 pb-1">
      <div class="d-flex align-items-center bg-light mb-4" style="padding: 30px;">
        <h1 class="fa fa-phone-volume text-primary m-0 mr-3"></h1>
        <h5 class="font-weight-semi-bold m-0">24/7 Support</h5>
      </div>
    </div>
  </div>
</div>
<!-- Featured End -->
```

Figure 2.3 – About HTML File

```
<!-- Vendor Start -->
<div class="container-fluid py-5">
  <h2 class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">OUR
    SUCCESS PARTNERS</span></h2>
  <div class="row px-xl-5">
    {% for x in post.all %}
      <div class="col-lg-3 col-md-6 col-sm-12 pb-1">
        <div class="d-flex align-items-center bg-light mb-4" style="padding: 30px;">
          <div class="bg-light p-4">
            
          </div>
        </div>
      {% endfor %}
    </div>
  </div>
</div>
<!-- Vendor End -->

<!-- Back to Top -->
<a href="#" class="btn btn-primary back-to-top"><i class="fa fa-angle-double-up"></i></a>
</body>
</html>
{% endblock %}
```

Figure 2.4 – About HTML File

6.3.1.2 Static File

```
page > static > css > # style.css > :root
1  /***** Bootstrap Theming *****/
2  /*!
3   * Bootstrap v4.5.3 (https://getbootstrap.com/)
4   * Copyright 2011-2020 The Bootstrap Authors
5   * Copyright 2011-2020 Twitter, Inc.
6   * Licensed under MIT (https://github.com/twbs/bootstrap/blob/main/LICENSE)
7   */
8  :root {
9    --blue: #007bff;
10   --indigo: #6610f2;
11   --purple: #6f42c1;
12   --pink: #e83e8c;
13   --red: #dc3545;
14   --orange: #fd7e14;
15   --yellow: #ffc107;
16   --green: #28a745;
17   --teal: #20c997;
18   --cyan: #17a2b8;
19   --white: #fff;
20   --gray: #6c757d;
21   --gray-dark: #343a40;
22   --primary: #FFD333;
23   --secondary: #F5F5F5;
24   --success: #28a745;
25   --info: #17a2b8;
26   --warning: #ffc107;
27   --danger: #dc3545;
28   --light: #FFFFFF;
29   --dark: #343a40;
30   --breakpoint-xs: 0;
31   --breakpoint-sm: 576px;
32   --breakpoint-md: 768px;
33   --breakpoint-lg: 992px;
34   --breakpoint-xl: 1200px;
35   --font-family-sans-serif: "Roboto", sans-serif;
36   --font-family-monospace: SFMono-Regular, Menlo, Monaco, Consolas, "Liberation Mono", "Courier New", monospace;
37 }
```

Figure 1 – Home/About CSS File

Chapter 6 - Appendices

```
39  *,
40  *::before,
41  *::after {
42  | box-sizing: border-box;
43  }
44
45  html {
46  | font-family: sans-serif;
47  | line-height: 1.15;
48  | -webkit-text-size-adjust: 100%;
49  | -webkit-tap-highlight-color: □rgba(0, 0, 0, 0);
50  }
51
52  article, aside, figcaption, figure, footer, header, hgroup, main, nav, section {
53  | display: block;
54  }
55
56  body {
57  | margin: 0;
58  | font-family: "Roboto", sans-serif;
59  | font-size: 1rem;
60  | font-weight: 400;
61  | line-height: 1.5;
62  | color: ■#6C757D;
63  | text-align: left;
64  | background-color: ■#F5F5F5;
65  }
66
67  [tabindex="-1"]:focus:not(:focus-visible) {
68  | outline: 0 !important;
69  }
70
71  hr {
72  | box-sizing: content-box;
73  | height: 0;
74  | overflow: visible;
75  }
```

Figure 2 – Home/About CSS File

```
77  h1, h2, h3, h4, h5, h6 {
78  | margin-top: 0;
79  | margin-bottom: 0.5rem;
80  }
81
82  p {
83  | margin-top: 0;
84  | margin-bottom: 1rem;
85  }
86
87  abbr[title],
88  abbr[data-original-title] {
89  | text-decoration: underline;
90  | text-decoration: underline dotted;
91  | cursor: help;
92  | border-bottom: 0;
93  | text-decoration-skip-ink: none;
94  }
95
96  address {
97  | margin-bottom: 1rem;
98  | font-style: normal;
99  | line-height: inherit;
100 }
101
102  ol,
103  ul,
104  dl {
105  | margin-top: 0;
106  | margin-bottom: 1rem;
107  }
108
```

Figure 3 – Home/About CSS File



```
(function ($) {
    "use strict";

    // Dropdown on mouse hover
    $(document).ready(function () {
        function toggleNavbarMethod() {
            if ($(window).width() > 992) {
                $('.navbar .dropdown').on('mouseover', function () {
                    $('.dropdown-toggle', this).trigger('click');
                }).on('mouseout', function () {
                    $('.dropdown-toggle', this).trigger('click').blur();
                });
            } else {
                $('.navbar .dropdown').off('mouseover').off('mouseout');
            }
        }
        toggleNavbarMethod();
        $(window).resize(toggleNavbarMethod);
    });
});
```

Figure 4 – Home JavaScript File

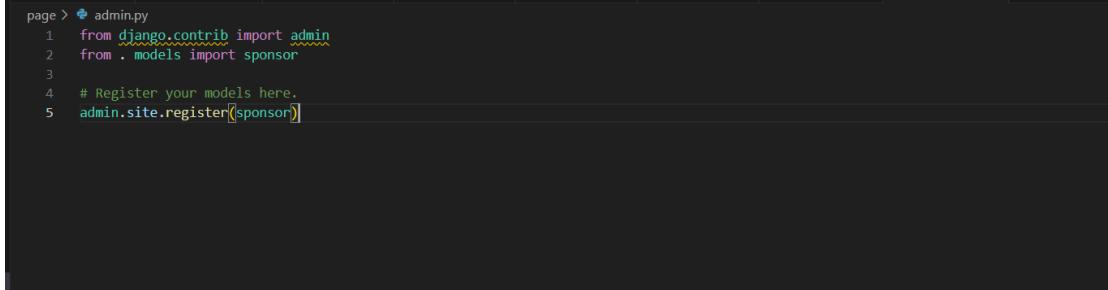


```
// Back to top button
$(window).scroll(function () {
    if ($(this).scrollTop() > 100) {
        $('.back-to-top').fadeIn('slow');
    } else {
        $('.back-to-top').fadeOut('slow');
    }
});
$('.back-to-top').click(function () {
    $('html, body').animate({scrollTop: 0}, 1500, 'easeInOutExpo');
    return false;
});
```

Figure 5 - About JavaScript File

6.3.1.3 Django App Files

1. Admin File



```
page > admin.py
1  from django.contrib import admin
2  from .models import sponsor
3
4  # Register your models here.
5  admin.site.register(sponsor)
```

Figure 1.1 – Admin File

2. Models File

Chapter 6 - Appendices

```
page > models.py > sponsor
1   from django.db import models
2
3   # Create your models here.
4   class sponsor (models.Model):
5       name= models.CharField(max_length=250)
6       logo = models.ImageField()
7
8       def __str__(self):
9           return self.name
```

Figure 2.1 - models File

3.Urls File

```
page > urls.py > ...
1   from . import views
2   from django.urls import path
3
4   urlpatterns = [
5       path('',views.home, name='home'),
6       path('about', views.about, name='about'),
7   ]
```

Figure 3.1 -Urls File

4. Views File

```
from django.shortcuts import render, redirect
from .models import sponsor
# Create your views here.

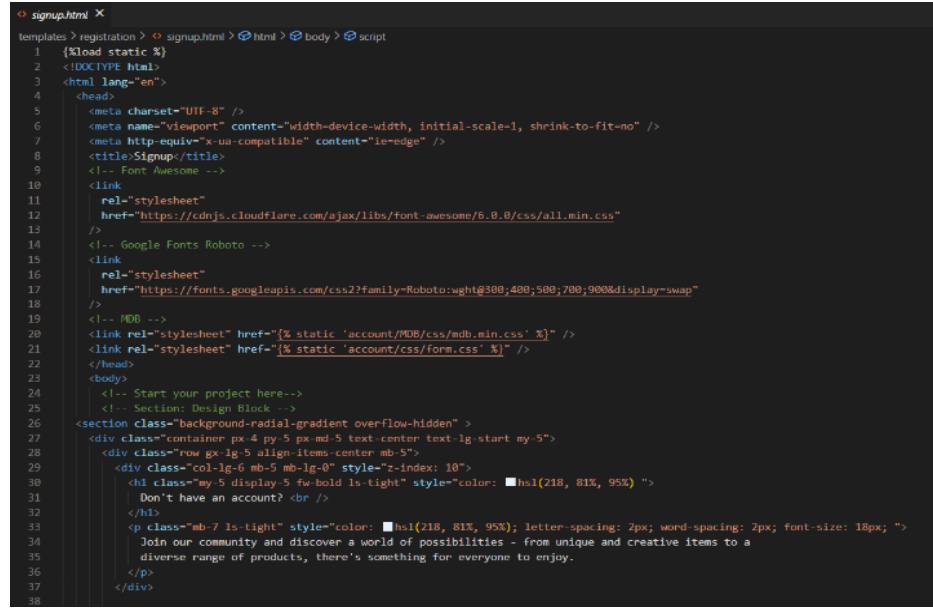
# Home view.
def home (request):
    return render (request,'page/home.html')
# About view.
def about(request):
    # If the user not signup yet, render the signup page.
    if request.session.get('email') == None:
        return redirect('signup')
    post = sponsor.objects.all()
    # Else render the home page.
    return render(request,'page/about.html',{'post': post})
```

Figure 4.4 - Views File

6.3.2 Account App

6.3.2.1 Template

1. Signup Page



```

① signup.html ✘
templates > registration > ② signup.html > ③ html > ④ body > ⑤ script
1   {%load static %}
2   <!DOCTYPE html>
3   <html lang="en">
4     <head>
5       <meta charset="UTF-8" />
6       <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
7       <meta http-equiv="x-ua-compatible" content="ie=edge" />
8       <title>Signup</title>
9       <!-- Font Awesome -->
10      <link
11        rel="stylesheet"
12        href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css"
13      />
14      <!-- Google Fonts Roboto -->
15      <link
16        rel="stylesheet"
17        href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500;700;900&display=swap"
18      />
19      <!-- MDB -->
20      <link rel="stylesheet" href="{% static 'account/MDB/css/mdb.min.css' %}" />
21      <link rel="stylesheet" href="{% static 'account/css/form.css' %}" />
22    </head>
23    <body>
24      <!-- Start your project here-->
25      <!-- Section: Design Block -->
26      <section class="background-radial-gradient overflow-hidden">
27        <div class="container px-4 py-5 px-md-5 text-center text-lg-start my-5">
28          <div class="row gx-1g-5 align-items-center mb-5">
29            <div class="col-1g-6 mb-5 mb-1g-0" style="z-index: 10">
30              <h1 class="my-5 display-5 fw-bold ls-tight" style="color: #hs1(218, 81%, 95%)">
31                Don't have an account? <br />
32              </h1>
33              <p class="mb-7 ls-tight" style="color: #hs1(218, 81%, 95%); letter-spacing: 2px; word-spacing: 2px; font-size: 18px;">
34                Join our community and discover a world of possibilities - from unique and creative items to a
35                diverse range of products, there's something for everyone to enjoy.
36              </p>
37            </div>
38          </div>

```

Figure 1.1 - Signup HTML File



```

71
72      <!-- Submit button -->
73      <button type="submit" class="btn btn-block mb-4 bt-color">
74        Sign up
75      </button>
76      <p id="requiredfields-error" ></p>
77      <a class="link-color link-color:hover" href="{% url 'login' %}>Have an Account</a>
78    </form>
79  </div>
80  </div>
81  </div>
82  </div>
83  </div>
84 </section>
85  <!-- Section: Design Block -->
86  <!-- End your project here-->
87
88  <!-- Custom scripts -->
89  <script src="{% static 'account/js/signup.js' %}"></script>
90 </body>
91 </html>

```

Figure 1.2 – Signup HTML File

Chapter 6 - Appendices

```
38 | <div class="col-lg-6 mb-5 mb-lg-0 position-relative">
39 |   <div id="radius-shape-1" class="position-absolute rounded-circle shadow-5-strong"></div>
40 |   <div id="radius-shape-2" class="position-absolute shadow-5-strong"></div>
41 |
42 |   <div class="card bg-glass">
43 |     <div class="card-body px-4 py-5 px-md-5">
44 |       <form onsubmit="return validateForm()" class="forms_form" method="POST" action="{% url 'signup' %}">
45 |         {% csrf_token %}
46 |         <h2 class="h2-color-p">Signup</h2>
47 |         <!-- Text input -->
48 |         <div class="form-outline mb-4">
49 |           <br>
50 |           <label class="form-labels" for="userName">User name</label>
51 |           <input type="text" id="userName" name="userName" class="form-control input-bg-color-p" required />
52 |           <p class="error-message" id="name-error"></p>
53 |         </div>
54 |
55 |         <!-- Email input -->
56 |         <div class="form-outline mb-4">
57 |           <br>
58 |           <label class="form-labels" for="email">Email address</label>
59 |           <input type="email" id="email" name="email" class="form-control input-bg-color-p" required />
60 |           <p class="error-message" id="email-error">{{email_error_message}}</p>
61 |         </div>
62 |
63 |         <!-- Password input -->
64 |         <div class="form-outline mb-4">
65 |           <br>
66 |           <label class="form-labels" for="password">Password</label>
67 |           <input type="password" name="password" id="password" class="form-control input-bg-color-p" required />
68 |           <p class="error-message" id="password-error">{{password_error_message}}</p>
69 |         </div>
70 |
71 |     </div>
```

Figure 1.3 - Signup HTML File

2. Login Page

```
templates > registration > login.html > html > body > section.background-radial-gradient.overflow-hidden > div.container.px-4.py-5.px-md-5.text-center.text-lg-start.my-5
1  {%load static %}
2  <!DOCTYPE html>
3  <html lang="en">
4    <head>
5      <meta charset="UTF-8" />
6      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
7      <meta http-equiv="x-ua-compatible" content="ie=edge" />
8      <title>Lgin</title>
9      <!-- Font Awesome -->
10     <link
11       rel="stylesheet"
12       href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css"
13     />
14     <!-- Google Fonts Roboto -->
15     <link
16       rel="stylesheet"
17       href="https://fonts.googleapis.com/css2?family=Roboto:wght@300;400;500;700;900&display=swap"
18     />
19     <!-- MDB -->
20     <link rel="stylesheet" href="{% static 'account/MDB/css/mdb.min.css' %}" />
21     <link rel="stylesheet" href="{% static 'account/css/form.css' %}" />
22   </head>
23   <body>
24     <!-- Start your project here-->
25     <!-- Section: Design Block -->
26     <section class="background-radial-gradient overflow-hidden" >
27       <div class="container px-4 py-5 px-md-5 text-center text-lg-start my-5">
28         <div class="row gx-lg-5 align-items-center mb-5">
29           <div class="col-lg-6 mb-5 mb-lg-0" style="z-index: 10">
30             <h1 class="my-5 display-5 fw-bold ls-tight" style="color: #hsl(218, 81%, 95%)">
31               Have an account? <br />
32             </h1>
33             <p class="mb-7 ls-tight" style="color: #hsl(218, 81%, 95%); letter-spacing: 2px; word-spacing: 2px; font-size: 18px;">
34               Welcome back to our community! Browse our diverse range of products and discover unique
35               and creative items, all at your fingertips.
36             </p>
37         </div>
```

Figure 2.1 - Login HTML File

```
38
39
40
41
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52
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65
66
67
68
69
70
71
72
73
74
75
76
77
```

```
<div class="col-lg-6 mb-5 mb-lg-0 position-relative">
  <div id="radius-shape-1" class="position-absolute rounded-circle shadow-5-strong"></div>
  <div id="radius-shape-2" class="position-absolute shadow-5-strong"></div>

  <div class="card bg-glass">
    <div class="card-body px-4 py-5 px-md-5">
      <form onsubmit="return validateForm()" class="forms_form" method="POST" action="{% url 'login' %}">
        [% csrf_token %]
        <h2 class="h2-color-p">Login</h2>
        <br>
        <!-- Email input -->
        <div class="form-outline mb-4">
          <br>
          <label class="form-labels" for="email">Email address</label>
          <input type="email" id="email" name="email" class="form-control input-bg-color-p" required/>
          <p class="error-message" id="email-error"></p>
        </div>

        <!-- Password input -->
        <div class="form-outline mb-4">
          <br>
          <label class="form-labels" for="password">Password</label>
          <input type="password" name="password" id="password" class="form-control input-bg-color-p" required/>
          <p class="error-message" id="password-error"></p>
        </div>

        <!-- Submit button -->
        <button type="submit" class="btn btn-block mb-4 bt-color">
          Login
        </button>
        <p class="error-message" id="requiredfields-error">{{error_message}}</p>
      </form>
    </div>
  </div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
```

Figure 2.2 – Login HTML File

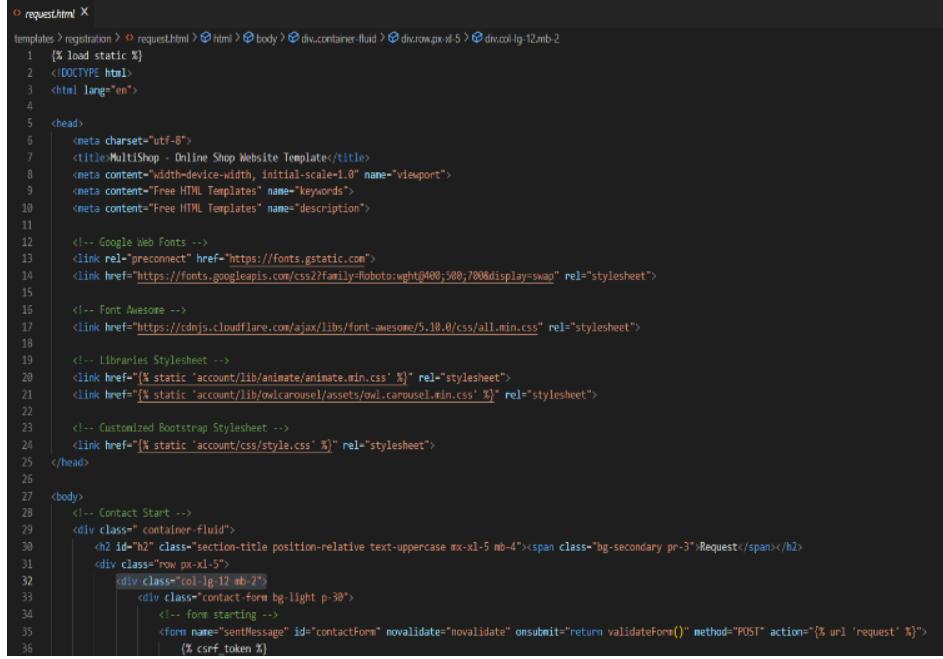
```
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
```

```
<!-- Submit button -->
<button type="submit" class="btn btn-block mb-4 bt-color">
  Login
</button>
<p class="error-message" id="requiredfields-error">{{error_message}}</p>
</form>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<!-- Section: Design Block -->
<!-- End your project here-->

<!-- Custom scripts -->
<script type="text/javascript" src="{% static 'account/js/login.js' %}"></script>
</body>
</html>
```

Figure 2.3 - Login HTML File

3. Request Page

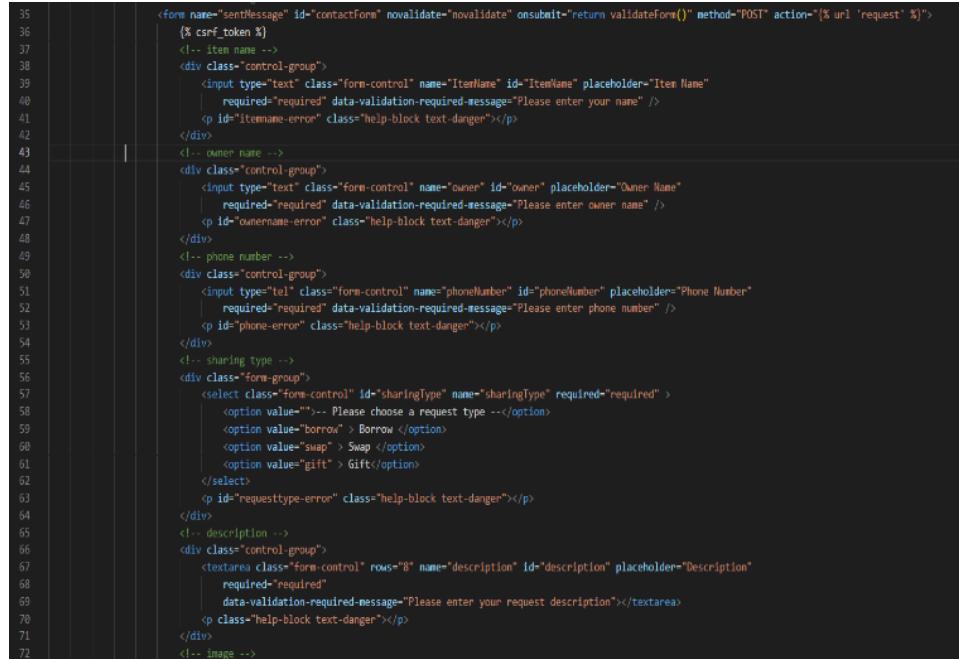


```

1  {% load static %}
2  <!DOCTYPE html>
3  <html lang="en">
4
5  <head>
6      <meta charset="utf-8">
7      <title>MultiShop - Online Shop Website Template</title>
8      <meta content="width=device-width, initial-scale=1.0" name="viewport">
9      <meta content="Free HTML Templates" name="keywords">
10     <meta content="Free HTML Templates" name="description">
11
12     <!-- Google Web Fonts -->
13     <link rel="preconnect" href="https://fonts.gstatic.com">
14     <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap" rel="stylesheet">
15
16     <!-- Font Awesome -->
17     <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
18
19     <!-- Libraries Stylesheet -->
20     <link href="{% static 'account/lib/animate/animate.min.css' %}" rel="stylesheet">
21     <link href="{% static 'account/lib/owlcarousel/assets/owl.carousel.min.css' %}" rel="stylesheet">
22
23     <!-- Customized Bootstrap Stylesheet -->
24     <link href="{% static 'account/css/style.css' %}" rel="stylesheet">
25 </head>
26
27 <body>
28     <!-- Contact Start -->
29     <div class="container-fluid">
30         <h2 id="h2" class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3">Request</span></h2>
31         <div class="row px-xl-5">
32             <div class="col-lg-12 mb-2">
33                 <div class="control-form bg-light p-30">
34                     <!-- form starting -->
35                     <form name="sentMessage" id="contactForm" novalidate="novalidate" onsubmit="return validateForm()" method="POST" action="{% url 'request' %}">
36                         <% csrf_token %>
37
38                         <!-- item name -->
39                         <div class="control-group">
40                             <input type="text" class="form-control" name="itemName" id="itemName" placeholder="Item Name"
41                             | required="required" data-validation-required-message="Please enter your name" />
42                             <p id="itemname-error" class="help-block text-danger"></p>
43                         </div>
44
45                         <!-- owner name -->
46                         <div class="control-group">
47                             <input type="text" class="form-control" name="owner" id="owner" placeholder="Owner Name"
48                             | required="required" data-validation-required-message="Please enter owner name" />
49                             <p id="ownername-error" class="help-block text-danger"></p>
50                         </div>
51
52                         <!-- phone number -->
53                         <div class="control-group">
54                             <input type="tel" class="form-control" name="phoneNumber" id="phoneNumber" placeholder="Phone Number"
55                             | required="required" data-validation-required-message="Please enter phone number" />
56                             <p id="phone-error" class="help-block text-danger"></p>
57                         </div>
58
59                         <!-- sharing type -->
60                         <div class="form-group">
61                             <select class="form-control" id="sharingType" name="sharingType" required="required" >
62                                 <option value="">-- Please choose a request type --</option>
63                                 <option value="borrow" > Borrow </option>
64                                 <option value="swap" > Swap </option>
65                                 <option value="gift" > Gift</option>
66                             </select>
67                             <p id="requesttype-error" class="help-block text-danger"></p>
68                         </div>
69
70                         <!-- description -->
71                         <div class="control-group">
72                             <textarea class="form-control" rows="8" name="description" id="description" placeholder="Description"
73                             | required="required"
74                             data-validation-required-message="Please enter your request description"></textarea>
75                             <p class="help-block text-danger"></p>
76                         </div>
77
78                         <!-- image -->
79
80                     </form>
81                 </div>
82             </div>
83         </div>
84     </div>
85
86     <!-- Footer Start -->
87     <div class="footer-area">
88         <div class="row py-5">
89             <div class="col-md-4 col-sm-6 col-12">
90                 <h4>Get in touch</h4>
91                 <ul>
92                     <li>Address: 123 Main Street, New York, NY 10001</li>
93                     <li>Phone: +1 212 555-1234</li>
94                     <li>Email: info@example.com</li>
95                 </ul>
96             </div>
97             <div class="col-md-4 col-sm-6 col-12">
98                 <h4>Follow Us</h4>
99                 <ul>
100                    <li><a href="#">Facebook</a></li>
101                    <li><a href="#">Twitter</a></li>
102                    <li><a href="#">Instagram</a></li>
103                </ul>
104            </div>
105            <div class="col-md-4 col-sm-6 col-12">
106                <h4>Newsletter</h4>
107                <form>
108                    <input type="email" class="form-control" placeholder="Enter your email" required="required" />
109                    <button type="submit" class="btn btn-primary">Subscribe</button>
110                </form>
111            </div>
112        </div>
113    </div>
114
115    <div class="copyright-area">
116        <div class="row py-3">
117            <div class="col-md-6 col-12">
118                <p>Copyright © 2021 MultiShop. All Rights Reserved. Design by <a href="#">PixelCave

```

Figure 3.1 - Request HTML File



```

1  <form name="sentMessage" id="contactForm" novalidate="novalidate" onsubmit="return validateForm()" method="POST" action="{% url 'request' %}">
2     <% csrf_token %>
3
4     <!-- item name -->
5     <div class="control-group">
6         <input type="text" class="form-control" name="itemName" id="itemName" placeholder="Item Name"
7         | required="required" data-validation-required-message="Please enter your name" />
8         <p id="itemname-error" class="help-block text-danger"></p>
9     </div>
10
11     <!-- owner name -->
12     <div class="control-group">
13         <input type="text" class="form-control" name="owner" id="owner" placeholder="Owner Name"
14         | required="required" data-validation-required-message="Please enter owner name" />
15         <p id="ownername-error" class="help-block text-danger"></p>
16     </div>
17
18     <!-- phone number -->
19     <div class="control-group">
20         <input type="tel" class="form-control" name="phoneNumber" id="phoneNumber" placeholder="Phone Number"
21         | required="required" data-validation-required-message="Please enter phone number" />
22         <p id="phone-error" class="help-block text-danger"></p>
23     </div>
24
25     <!-- sharing type -->
26     <div class="form-group">
27         <select class="form-control" id="sharingType" name="sharingType" required="required" >
28             <option value="">-- Please choose a request type --</option>
29             <option value="borrow" > Borrow </option>
30             <option value="swap" > Swap </option>
31             <option value="gift" > Gift</option>
32         </select>
33         <p id="requesttype-error" class="help-block text-danger"></p>
34     </div>
35
36     <!-- description -->
37     <div class="control-group">
38         <textarea class="form-control" rows="8" name="description" id="description" placeholder="Description"
39         | required="required"
40         data-validation-required-message="Please enter your request description"></textarea>
41         <p class="help-block text-danger"></p>
42     </div>
43
44     <!-- image -->
45     <div class="control-group">
46         <input type="file" class="form-control" name="image" id="image" placeholder="Image" />
47         <p class="help-block text-danger"></p>
48     </div>
49
50
51 </form>
52
53 <!-- Footer Start -->
54 <div class="footer-area">
55     <div class="row py-5">
56         <div class="col-md-4 col-sm-6 col-12">
57             <h4>Get in touch</h4>
58             <ul>
59                 <li>Address: 123 Main Street, New York, NY 10001</li>
60                 <li>Phone: +1 212 555-1234</li>
61                 <li>Email: info@example.com</li>
62             </ul>
63         </div>
64         <div class="col-md-4 col-sm-6 col-12">
65             <h4>Follow Us</h4>
66             <ul>
67                 <li><a href="#">Facebook</a></li>
68                 <li><a href="#">Twitter</a></li>
69                 <li><a href="#">Instagram</a></li>
70             </ul>
71         </div>
72         <div class="col-md-4 col-sm-6 col-12">
73             <h4>Newsletter</h4>
74             <form>
75                 <input type="email" class="form-control" placeholder="Enter your email" required="required" />
76                 <button type="submit" class="btn btn-primary">Subscribe</button>
77             </form>
78         </div>
79     </div>
80
81     <div class="copyright-area">
82         <div class="row py-3">
83             <div class="col-md-6 col-12">
84                 <p>Copyright © 2021 MultiShop. All Rights Reserved. Design by <a href="#">PixelCave

```

Figure 3.2 – Request HTML File

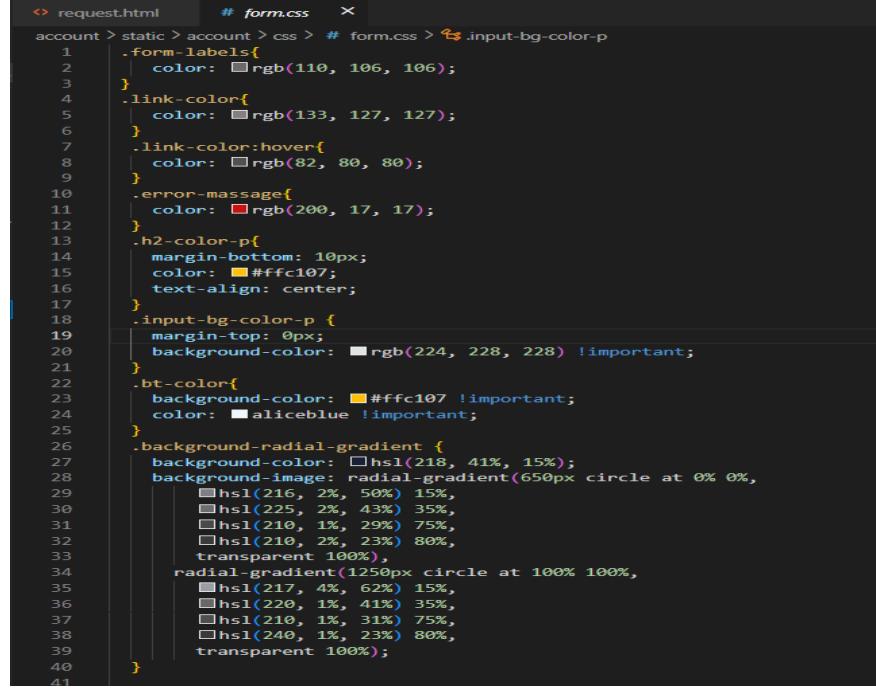
Give-N-Take-Hub

```
73 |         <div class="form-group">
74 |             <label for="image" class="custom-label">Choose an image :</label>
75 |             <input type="file" class="form-control-file" id="image" name="image" >
76 |         </div>
77 |         <div>
78 |             <button class="btn btn-primary py-2 px-4" type="submit" id="sendMessageButton">Send
79 |                 Request</button>
80 |             <p id="requiredfields-error" class="help-block text-danger"></p>
81 |         </div>
82 |     </form>
83 | </div>
84 | </div>
85 | </div>
86 | <!-- Contact End -->
87 |
88 | <!-- Back to Top -->
89 | <a href="#2" class="btn btn-primary back-to-top"><i class="fa fa-angle-double-up"></i></a>
90 |
91 |
92 | <!-- JavaScript Libraries -->
93 | <script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
94 | <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.bundle.min.js"></script>
95 | <script src="{% static 'account/lib/easing/easing.min.js' %}"></script>
96 | <script src="{% static 'account/lib/owlcarousel/owl.carousel.min.js' %}"></script>
97 |
98 | <!-- Template Javascript -->
99 | <script src="{% static 'account/js/main.js' %}"></script>
100 |
101 </body>
102 |
103 </html>
```

Figure 3.3 – Request HTML File

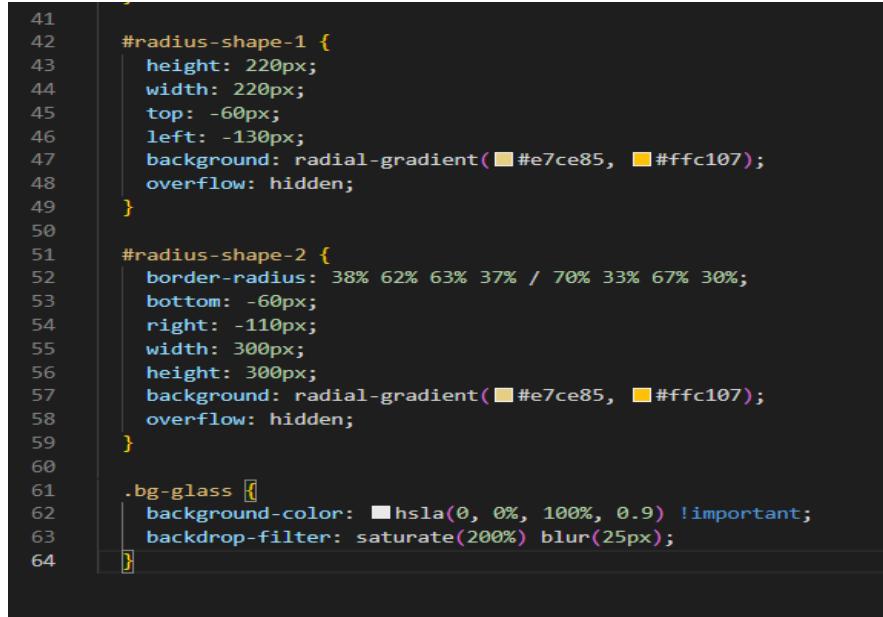
6.3.2.2 Static File

1. Signup / Login Page



```
40 < request.html      # form.css >
41 account > static > account > css > # form.css > .input-bg-color-p
42   .form-labels{
43     color: #rgb(110, 106, 106);
44   }
45   .link-color{
46     color: #rgb(133, 127, 127);
47   }
48   .link-color:hover{
49     color: #rgb(82, 80, 80);
50   }
51   .error-message{
52     color: #rgb(200, 17, 17);
53   }
54   .h2-color-p{
55     margin-bottom: 10px;
56     color: #ffc107;
57     text-align: center;
58   }
59   .input-bg-color-p {
60     margin-top: 0px;
61     background-color: #rgb(224, 228, 228) !important;
62   }
63   .bt-color{
64     background-color: #ffc107 !important;
65     color: #aliceblue !important;
66   }
67   .background-radial-gradient {
68     background-color: #hsl(218, 41%, 15%);
69     background-image: radial-gradient(650px circle at 0% 0%,
70       #hsl(216, 2%, 50%) 15%,
71       #hsl(225, 2%, 43%) 35%,
72       #hsl(210, 1%, 29%) 75%,
73       #hsl(210, 2%, 23%) 80%,
74       transparent 100%),
75     radial-gradient(1250px circle at 100% 100%,
76       #hsl(217, 4%, 62%) 15%,
77       #hsl(220, 1%, 41%) 35%,
78       #hsl(210, 1%, 31%) 75%,
79       #hsl(240, 1%, 23%) 80%,
80       transparent 100%);
81   }
```

Figure 1.1 – Signup/Login CSS File



```
41 #radius-shape-1 {
42   height: 220px;
43   width: 220px;
44   top: -60px;
45   left: -130px;
46   background: radial-gradient(#e7ce85, #ffc107);
47   overflow: hidden;
48 }
49
50 #radius-shape-2 {
51   border-radius: 38% 62% 63% 37% / 70% 33% 67% 30%;
52   bottom: -60px;
53   right: -110px;
54   width: 300px;
55   height: 300px;
56   background: radial-gradient(#e7ce85, #ffc107);
57   overflow: hidden;
58 }
59
60 .bg-glass {
61   background-color: hsla(0, 0%, 100%, 0.9) !important;
62   backdrop-filter: saturate(200%) blur(25px);
63 }
64 }
```

Figure 1.2 – Signup/Login CSS File

Give-N-Take-Hub

```

account ? account > account > # signupjs > # addEventListener(blur) callback
1   document.getElementById('username').addEventListener('blur', function() {
2     var username = this.value.trim();
3     /* check user name field is not empty or very large*/
4     if ((username.length < 1 || username.length > 255) &
5         this.classList.add('is-invalid'));
6     else{
7       document.getElementById('name-error').textContent = 'Please enter user name';
8     }
9   });
10  this.classList.remove('is-invalid');
11  document.getElementById('name-error').textContent = '';
12  }
13  );
14  document.getElementById('password').addEventListener('blur', function() {
15    var password = this.value.trim();
16    /* check user password field is not empty or too long */
17    if ((password.length < 1 || password.length > 255) &
18        this.classList.add('is-invalid'));
19    else{
20      if (password.length < 4){
21        this.classList.add('is-invalid');
22      }
23      document.getElementById('password-error').textContent = 'Please enter password';
24    }
25    else{
26      document.getElementById('password-error').textContent = 'Password must be less than 255 characters';
27    }
28  }
29  /* Check password strength */
30  if (checkPasswordStrength(password)) {
31    this.classList.add('is-invalid');
32    document.getElementById('password-error').textContent =
33    '| Password must contain at least 8 characters, including at least one uppercase letter, one lowercase letter, one digit, and one special character.';
34    this.classList.remove('is-invalid');
35    document.getElementById('password-error').textContent = '';
36  }
37  });

```

Figure 1.3 – Signup JS File

```

38  });
39  function checkPasswordStrength(password) {
40   var passwordRegEx = /^(?=.*[A-Z])(?=.*[!@#$%^&*()~`]{1})(?=.*[<,>]{1}){8,15}$/,
41   return passwordRegEx.test(password);
42  }
43  /* check user email*/
44  document.getElementById('email').addEventListener('blur', function() {
45    var email = this.value.trim();
46    /* check user email field is not empty or very large*/
47    if ((email.length < 1 || email.length > 255) &
48        this.classList.add('is-invalid'));
49    else{
50      if (email.length < 1) {
51        document.getElementById('email-error').textContent = 'Please enter email';
52      }
53      else{
54        this.classList.remove('is-invalid');
55        document.getElementById('email-error').textContent = '';
56      }
57    }
58  }
59  /* check all required fields are filled*/
60  function validateForm() {
61    var isFormValid = true;
62    // Get all required input fields
63    var inputElements = document.querySelectorAll('input[required], select[required], textarea[required]');
64    // Loop through each input field and check if it has a value
65    for (var i = 0; i < inputElements.length; i++) {
66      if (!inputElements[i].value.trim()) {
67        inputElements[i].classList.add('is-invalid');
68        isFormValid = false;
69      } else {
70        inputElements[i].classList.remove('is-invalid');
71      }
72    }
73    // Show error message if form is not valid
74    var requiredFieldsError = document.getElementById('requiredfields-error');
75    if (!isFormValid) {
76      requiredFieldsError.textContent = 'Please fill in all required fields';
77    } else {
78      requiredFieldsError.textContent = '';
79    }
80    // Return whether the form is valid or not
81    return isFormValid;
82  }

```

Figure 1.4 - Signup JS File

```

59  /* check all required fields are filled*/
60  function validateForm() {
61    var isFormValid = true;
62    // Get all required input fields
63    var inputElements = document.querySelectorAll('input[required], select[required], textarea[required]');
64    // Loop through each input field and check if it has a value
65    for (var i = 0; i < inputElements.length; i++) {
66      if (!inputElements[i].value.trim()) {
67        inputElements[i].classList.add('is-invalid');
68        isFormValid = false;
69      } else {
70        inputElements[i].classList.remove('is-invalid');
71      }
72    }
73    // Show error message if form is not valid
74    var requiredFieldsError = document.getElementById('requiredfields-error');
75    if (!isFormValid) {
76      requiredFieldsError.textContent = 'Please fill in all required fields';
77    } else {
78      requiredFieldsError.textContent = '';
79    }
80    // Return whether the form is valid or not
81    return isFormValid;
82  }

```

Figure 1.5 - Signup JS File

```

1  /* check password*/
2  document.getElementById('password').addEventListener('blur', function() {
3    var password = this.value.trim();
4    /* check password field is not empty or very large*/
5    if ((password.length < 1 || password.length > 255) &
6        this.classList.add('is-invalid'));
6    else{
7      document.getElementById('password-error').textContent = 'Please enter password';
8    }
9  });
10  else{
11    this.classList.remove('is-invalid');
12    document.getElementById('password-error').textContent = '';
13  }
14  });
15
16  /* check user email*/
17  document.getElementById('email').addEventListener('blur', function() {
18    var email = this.value.trim();
19    /* check user email field is not empty or very large*/
20    if ((email.length < 1 || email.length > 255) &
21        this.classList.add('is-invalid'));
22    else{
23      if (email.length < 1){
24        document.getElementById('email-error').textContent = 'Please enter email';
25      }
26      else{
27        document.getElementById('email-error').textContent = 'Email must be less than 255 characters';
28      }
29    }
30  });
31  else{
32    this.classList.remove('is-invalid');
33    document.getElementById('email-error').textContent = '';
34  }
35  });

```

Figure 1.6 - Login JS File

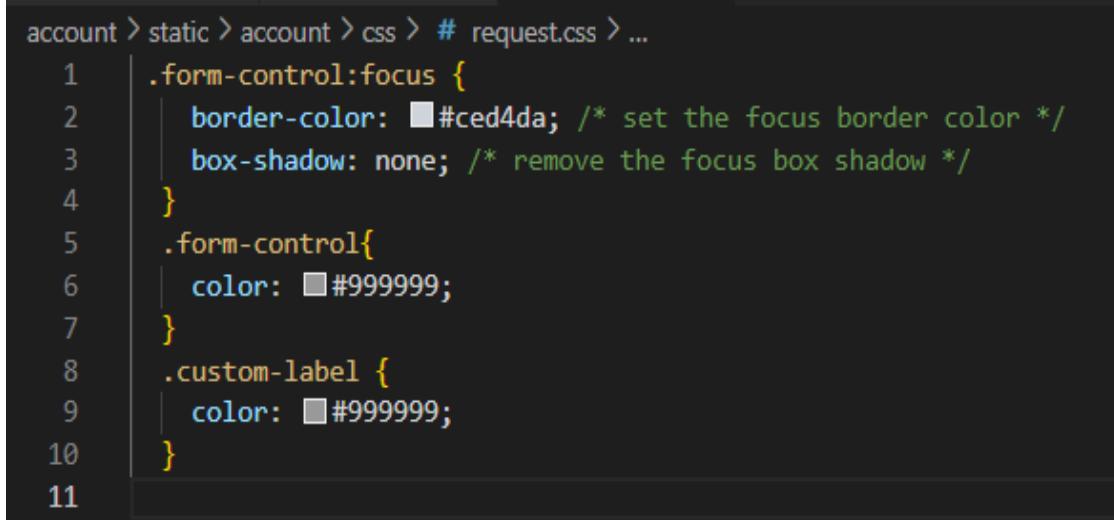
```

35  /* check all required fields are filled */
36  function validateForm() {
37    var isFormValid = true;
38    // Get all required input fields
39    var inputElements = document.querySelectorAll('input[required], select[required], textarea[required]');
40    // Loop through each input field and check if it has a value
41    for (var i = 0; i < inputElements.length; i++) {
42      if (!inputElements[i].value.trim()) {
43        inputElements[i].classList.add('is-invalid');
44        isFormValid = false;
45      } else {
46        inputElements[i].classList.remove('is-invalid');
47      }
48    }
49    // Show error message if form is not valid
50    var requiredFieldsError = document.getElementById('requiredfields-error');
51    if (!isFormValid) {
52      requiredFieldsError.textContent = 'Please fill in all required fields';
53    } else {
54      requiredFieldsError.textContent = '';
55    }
56    // Return whether the form is valid or not
57    return isFormValid;
58  }

```

Figure 1.7 - Login JS File

2. Request Page



```

account > static > account > css > # request.css > ...
1   .form-control:focus {
2     border-color: #ced4da; /* set the focus border color */
3     box-shadow: none; /* remove the focus box shadow */
4   }
5   .form-control{
6     color: #999999;
7   }
8   .custom-label {
9     color: #999999;
10  }
11

```

Figure 2.1 – Request CSS File

```

account > static > account > js > request.js > ...
1  /* check item name*/
2  document.getElementById('itemName').addEventListener('blur', function() {
3    var owner = this.value.trim();
4    /* check item name field is not empty or very large*/
5    if (owner.length < 1 || owner.length > 250) {
6      this.classList.add('is-invalid');
7      if (owner.length < 1){
8        this.nextElementSibling.textContent = 'Please enter item name';
9      } else{
10        this.nextElementSibling.textContent = 'item name must be less than 250 characters';
11      }
12    } else {
13      this.classList.remove('is-invalid');
14      this.nextElementSibling.textContent = '';
15    }
16  });
17  /* check owner name*/
18  document.getElementById('owner').addEventListener('blur', function() {
19    var owner = this.value.trim();
20    /* check owner name field is not empty or very large*/
21    if (owner.length < 1 || owner.length > 100) {
22      this.classList.add('is-invalid');
23      if (owner.length < 3){
24        this.nextElementSibling.textContent = 'Please enter owner name';
25      } else{
26        this.nextElementSibling.textContent = 'Owner name must be less than 100 characters';
27      }
28    } else {
29      this.classList.remove('is-invalid');
30      this.nextElementSibling.textContent = '';
31    }
32  });
33  /* check phone number*/
34  document.getElementById('phoneNumber').addEventListener('blur', function() {
35    var phone = this.value.trim();
36    /* check phone number length */
37    var phoneRegex = /\d{10}/; // matches 10 digits
38    if (!phoneRegex.test(phone)) {
39      document.getElementById('phone-error').textContent = 'Please enter a valid 10-digit phone number';
40    } else {
41      document.getElementById('phone-error').textContent = '';
42    }

```

Figure 2.2 - Request JS File

```

44  /* check of selecting sharing type*/
45  document.getElementById('sharingType').addEventListener('blur', function() {
46    var selectedValue = this.value;
47    if (selectedValue === '') {
48      this.classList.add('is-invalid');
49      document.getElementById('requesttype-error').textContent = 'Please choose a request type';
50    } else {
51      this.classList.remove('is-invalid');
52      document.getElementById('requesttype-error').textContent = '';
53    }
54  });
55  /* check all required fields are filled */
56  function validateForm() {
57    var isFormValid = true;
58    // Get all required input fields
59    var inputElements = document.querySelectorAll('input[required], select[required], textarea[required]');
60    // loop through each input field and check if it has a value
61    for (var i = 0; i < inputElements.length; i++) {
62      if (!inputElements[i].value.trim()) {
63        inputElements[i].classList.add('is-invalid');
64        isFormValid = false;
65      } else {
66        inputElements[i].classList.remove('is-invalid');
67      }
68    }
69    // Show error message if form is not valid
70    var requiredFieldsError = document.getElementById('requiredfields-error');
71    if (!isFormValid) {
72      requiredFieldsError.textContent = 'Please fill in all required fields';
73    } else {
74      requiredFieldsError.textContent = '';
75    }
76    // Return whether the form is valid or not
77    return isFormValid;
78  }
79

```

Figure 2.3 - Request JS File

6.3.2.2 Django App Files

5. Admin File

```
account > admin.py
1  from django.contrib import admin
2  from .models import customer
3
4  # Register your models here.
5
6  # customer table
7  admin.site.register(customer)
8
```

Figure 1.1 – Admin File

6. Model File

```
account > models.py > ...
1  from django.db import models
2
3  #customer table
4  class customer(models.Model):
5      userID = models.AutoField(primary_key=True)
6      userName = models.CharField(max_length=255, blank=False, null=False)
7      email = models.EmailField(unique=True, blank=False, null=False)
8      password = models.CharField(max_length=255, blank=False, null=False)
9      points = models.IntegerField(default=0)
10
11     def __str__(self):
12         return self.userName
```

Figure 2.1 -Model File

7. URLs File

```
account > urls.py > ...
1  from . import views
2  from django.urls import path
3
4  urlpatterns = [
5      path('',views.signup, name = 'signup'),
6      path('login',views.loginTo,name = 'login'),
7      path('request',views.request,name='request'),
8      path('logout',views.logout,name='logout'),
9  ]
```

Figure 3.1 -Urls File

8. View File

```
account > views.py > ...
1  from django.shortcuts import render, redirect
2  from .models import customer, giftItem, borrowedItem,swapedItem
3
4
5  def logout (request):
6      #destory session
7      del request.session['email']
8      return redirect('login')
9
10
11 def request (request):
12     if request.session.get('email') == None :
13         return redirect('login')
14     if request.method == 'POST':
15         # get user inputs
16         v_itemname=request.POST.get("ItemName")
17         v_owner=request.POST.get("owner")
18         v_PhoneNumber=request.POST.get("phoneNumber")
19         v_sharingType=request.POST.get("sharingType")
20         v_description=request.POST.get("description")
21         v_image=request.POST.get("image")
22         v_email = request.session.get('email')
23         v_customer = customer.objects.get(email=v_email)
24         #check sharing type
25         # store the inputs in DB
26         if v_sharingType == "borrow":
27             v_borrowedItem = borrowedItem (name = v_itemname ,owner = v_owner , phone = v_PhoneNumber ,description= v_description , image = v_image )
28             v_borrowedItem.save()
29             v_customer.points += 1
30             v_customer.save()
31             #check home page link
32             return redirect('home')
33         if v_sharingType == "swap":
34             v_swapedItem = swapedItem (name = v_itemname ,owner = v_owner , phone = v_PhoneNumber ,description= v_description , image = v_image )
35             v_swapedItem.save()
36             v_customer.points += 1
37             v_customer.save()
38             #check home page link
39             return redirect('home')
```

Figure 4.1 - Views File

Give-N-Take-Hub

```
account > views.py > ...
37     v_customer.save()
38     #check home page link
39     return redirect('home')
40 if v_sharingType == "swap":
41     v_swapedItem = swapedItem (name = v_itemname ,owner = v_owner , phone = v_PhoneNumber ,description= v_description , image = v_image )
42     v_swapedItem.save()
43     v_customer.points += 1
44     v_customer.save()
45     #check home page link
46     return redirect('home')
47 if v_sharingType == "gift":
48     v_giftItem = giftItem (name = v_itemname ,owner = v_owner , phone = v_PhoneNumber ,description= v_description , image = v_image )
49     v_giftItem.save()
50     v_customer.points += 1
51     v_customer.save()
52     #check home page link
53     return redirect('home')
54 return render(request,'registration/request.html')
55
56 def loginTo(request):
57     if request.method == 'POST':
58         # get user inputs
59         v_email=request.POST.get("email")
60         v_password=request.POST.get("password")
61         try:
62             # check if the customer is registered
63             v_customer= customer.objects.get(email=v_email)
64         except customer.DoesNotExist:
65             error_message = 'This email address is not registered. Please sign up for a new account.'
66             return render(request,'registration/login.html',{'error_message': error_message})
67             # check if the customer email matches password
68         if v_password == v_customer.password:
69             request.session['email']= v_email
70             #check home page link
71             return redirect('home')
72         else:
73             error_message = 'Incorrect password or email. Please try again.'
74             return render(request,'registration/login.html', {'error_message': error_message})
75     else:
76         return render(request,'registration/login.html')
```

Figure 4.2 - Views File

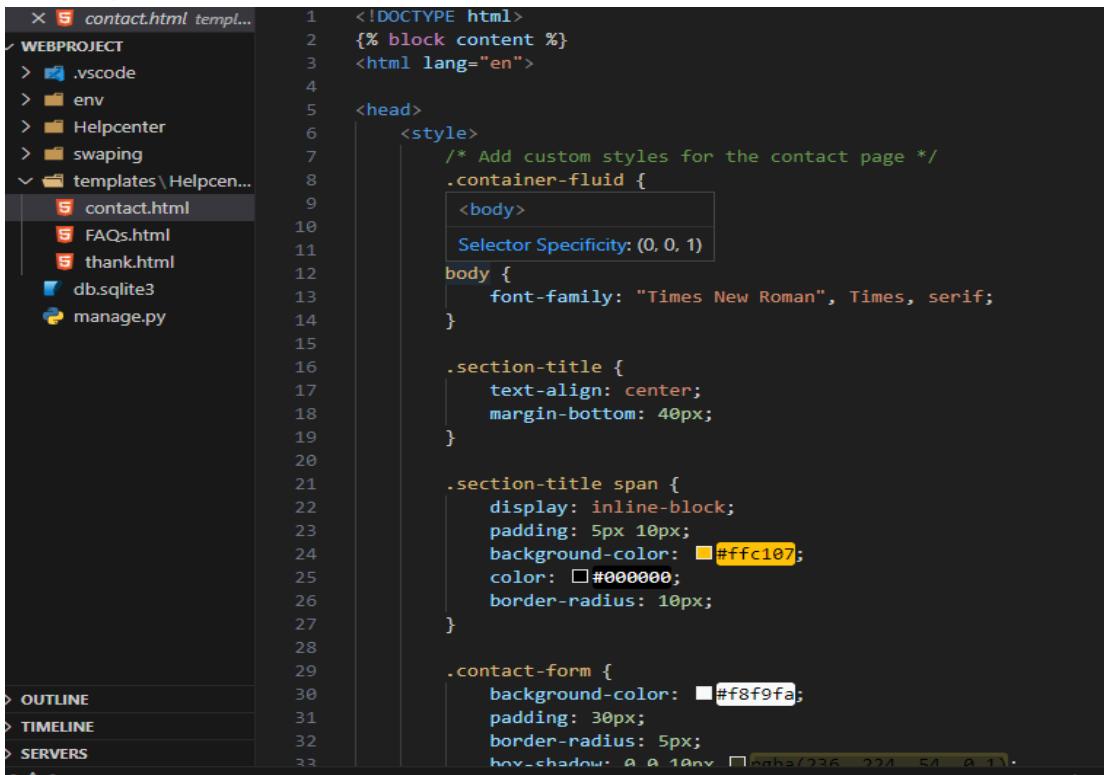
```
77
78 def signup(request):
79     if request.method == 'POST':
80         # get user inputs
81         v_name=request.POST.get("userName")
82         v_email=request.POST.get("email")
83         v_password=request.POST.get("password")
84         # check if the email already exists in the database
85         if customer.objects.filter(email=v_email).exists():
86             email_error_message = 'This email address is already in use. Please enter a different email.'
87             return render(request, 'registration/signup.html', {'email_error_message': email_error_message})
88         v_customer = customer(userName=v_name, email=v_email, password=v_password)
89         v_customer.save()
90         return redirect('login')
91     return render(request,'registration/signup.html')
```

Figure 4.3 - Views File

6.3.3 Help Center App

6.3.3.1 Template

1. Contact Page



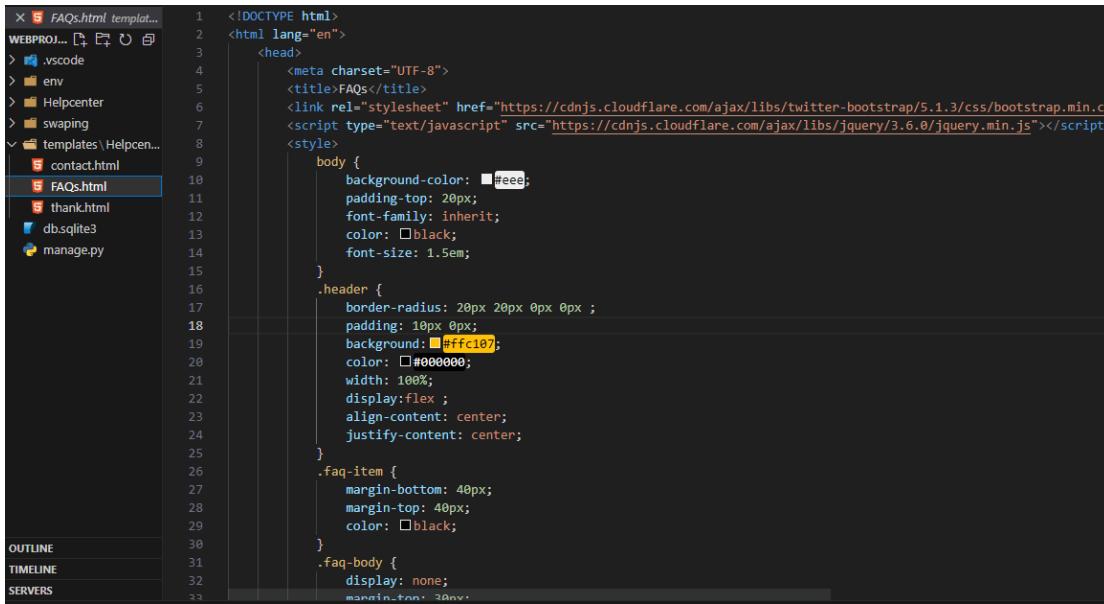
```

1  <!DOCTYPE html>
2  {% block content %}
3  <html lang="en">
4
5  <head>
6      <style>
7          /* Add custom styles for the contact page */
8          .container-fluid {
9              <body>
10             Selector Specificity: (0, 0, 1)
11             body {
12                 font-family: "Times New Roman", Times, serif;
13             }
14
15             .section-title {
16                 text-align: center;
17                 margin-bottom: 40px;
18             }
19
20             .section-title span {
21                 display: inline-block;
22                 padding: 5px 10px;
23                 background-color: #ffc107;
24                 color: #000000;
25                 border-radius: 10px;
26             }
27
28             .contact-form {
29                 background-color: #f8f9fa;
30                 padding: 30px;
31                 border-radius: 5px;
32                 box-shadow: 0 0 10px 0 rgba(236, 224, 54, 0.1);
33             }
34         </style>
35     </head>
36     <body>
37         <h1>Contact Us</h1>
38         <div>
39             <h2>Get in touch</h2>
40             <p>We're here to help! If you have any questions or concerns, please don't hesitate to reach out to us.</p>
41             <form>
42                 <div>
43                     <label>Name:</label>
44                     <input type="text" name="name" required="required" />
45                 </div>
46                 <div>
47                     <label>Email:</label>
48                     <input type="email" name="email" required="required" />
49                 </div>
50                 <div>
51                     <label>Subject:</label>
52                     <input type="text" name="subject" required="required" />
53                 </div>
54                 <div>
55                     <label>Message:</label>
56                     <input type="text" name="message" required="required" />
57                 </div>
58                 <div>
59                     <input type="submit" value="Send Message" />
60                 </div>
61             </form>
62         </div>
63     </body>
64 </html>

```

Figure 1.1 – Contact HTML File

2. FAQs Page



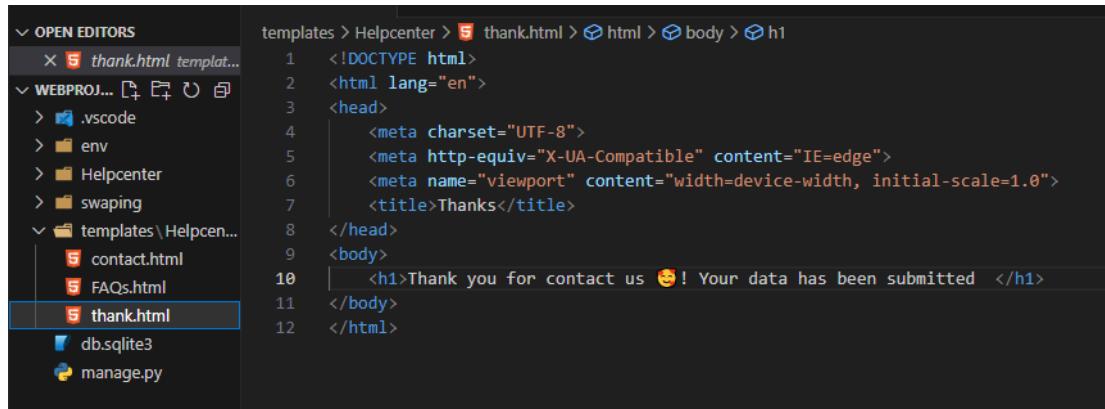
```

1  <!DOCTYPE html>
2  <html lang="en">
3      <head>
4          <meta charset="UTF-8">
5          <title>FAQs</title>
6          <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/5.1.3/css/bootstrap.min.css" />
7          <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
8          <style>
9              body {
10                  background-color: #eee;
11                  padding-top: 20px;
12                  font-family: inherit;
13                  color: black;
14                  font-size: 1.5em;
15              }
16              .header {
17                  border-radius: 20px 20px 0px 0px ;
18                  padding: 10px 0px;
19                  background: #ffc107;
20                  color: #000000;
21                  width: 100%;
22                  display:flex ;
23                  align-content: center;
24                  justify-content: center;
25              }
26              .faq-item {
27                  margin-bottom: 40px;
28                  margin-top: 40px;
29                  color: black;
30              }
31              .faq-body {
32                  display: none;
33                  margin-top: 20px;
34              }
35          </style>
36      </head>
37      <body>
38          <h1>Frequently Asked Questions</h1>
39          <div>
40              <h2>What is the Helpcenter app?</h2>
41              <p>The Helpcenter app is a web-based application designed to provide users with a central hub for managing their support requests. It allows users to submit new tickets, track existing ones, and receive updates via email or in-app notifications. The app also includes a knowledge base section where users can search for answers to common questions and view frequently asked questions (FAQs).</p>
42              <h2>How do I create a new ticket?</h2>
43              <p>Creating a new ticket is easy! Simply click the "New Ticket" button at the top of the screen and fill out the required information. You can choose the category of the ticket, provide a subject, and attach any relevant files or messages. Once you're done, click "Submit" to send your ticket to our support team for review.</p>
44              <h2>How do I track my ticket status?</h2>
45              <p>To track the status of your ticket, simply log in to your account and navigate to the "My Tickets" section. From there, you can see all of your open and closed tickets, along with their current status and any recent updates. You can also filter your tickets by category or priority to make it easier to find what you're looking for.</p>
46              <h2>How do I update my ticket?</h2>
47              <p>If you need to update your ticket, simply log in to your account and navigate to the "My Tickets" section. From there, you can click on the ticket you want to update and make changes to the subject, message, or attachments. Once you're done, click "Save" to update the ticket and send it back to our support team for review.</p>
48          </div>
49      </body>
50 </html>

```

Figure 1.2 – Contact HTML File

3. Thank You Page



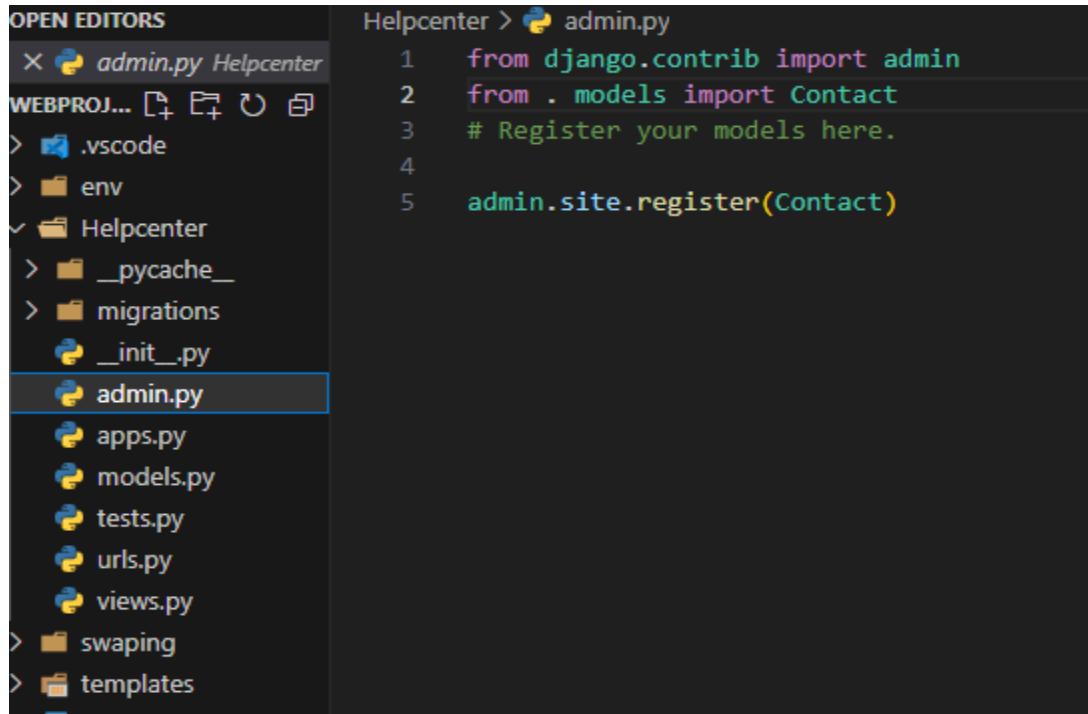
The screenshot shows the VS Code interface with the 'thank.html' file open. The left sidebar displays the project structure under 'OPEN EDITORS'. The 'thank.html' file is selected in the list. The main editor area shows the following code:

```
templates > Helpcenter > thank.html > html > body > h1
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Thanks</title>
8  </head>
9  <body>
10     <h1>Thank you for contact us 😊 ! Your data has been submitted </h1>
11 </body>
12 </html>
```

Figure 1.3 – Contact HTML File

6.3.3.2 Django App Files

1. Admin File

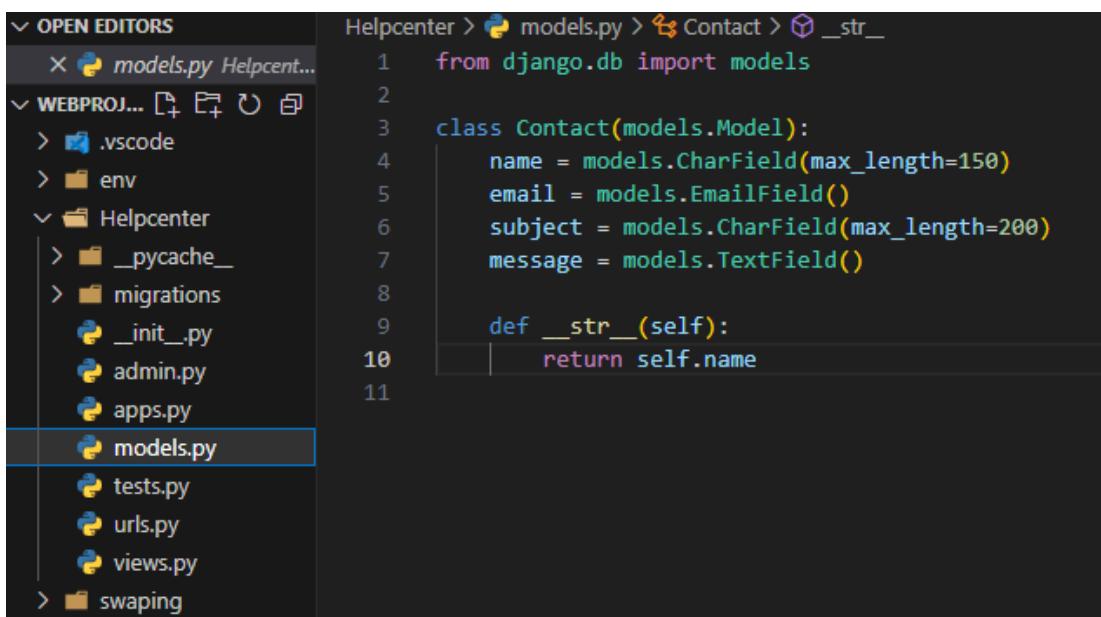


The screenshot shows the VS Code interface with the 'Helpcenter' application open. On the left, the file tree displays files like admin.py, __init__.py, and models.py. The admin.py file is currently selected and shown in the main editor area. The code in admin.py registers the Contact model with the admin site.

```
Helpcenter > admin.py
1  from django.contrib import admin
2  from .models import Contact
3  # Register your models here.
4
5  admin.site.register(Contact)
```

Figure 1.1 – Admin File

2. Model File

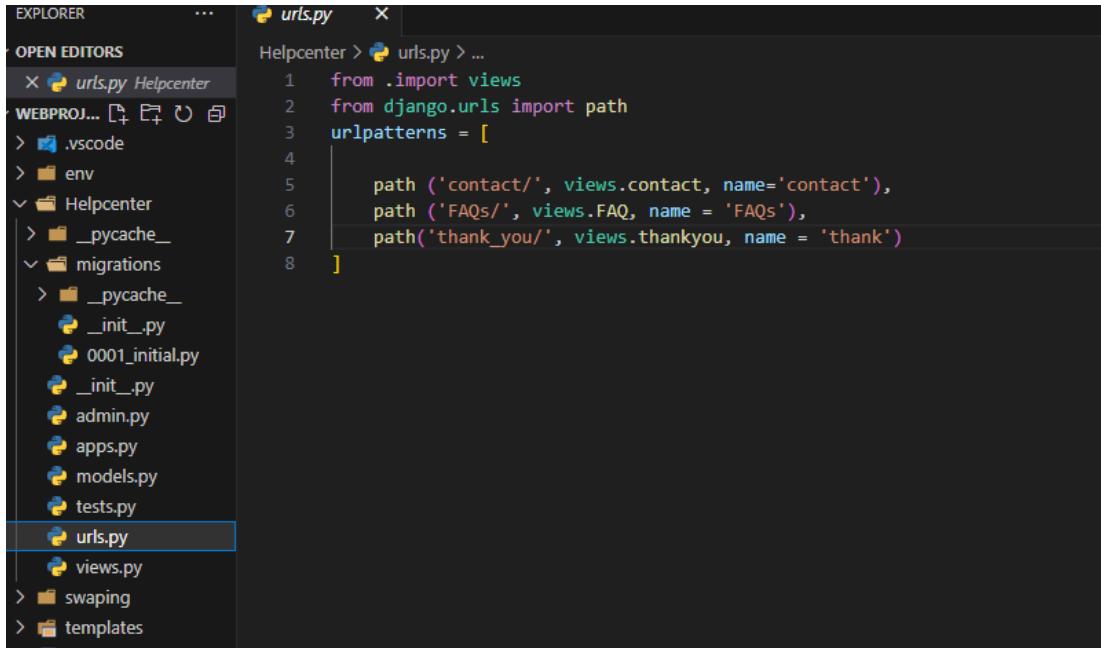


The screenshot shows the VS Code interface with the 'Helpcenter' application open. On the left, the file tree displays files like models.py, __init__.py, and admin.py. The models.py file is currently selected and shown in the main editor area. The code defines a Contact model with fields for name, email, subject, and message, and overrides the __str__ method to return the name.

```
Helpcenter > models.py > Contact > __str__
1  from django.db import models
2
3  class Contact(models.Model):
4      name = models.CharField(max_length=150)
5      email = models.EmailField()
6      subject = models.CharField(max_length=200)
7      message = models.TextField()
8
9  def __str__(self):
10     return self.name
11
```

Figure 2.1 -Model File

3. URLs File



The screenshot shows the VS Code interface with the 'urls.py' file open in the editor. The file is located in the 'Helpcenter' directory under 'WEBPROJECT'. The code defines URL patterns for three views: 'contact', 'FAQs', and 'thankyou'.

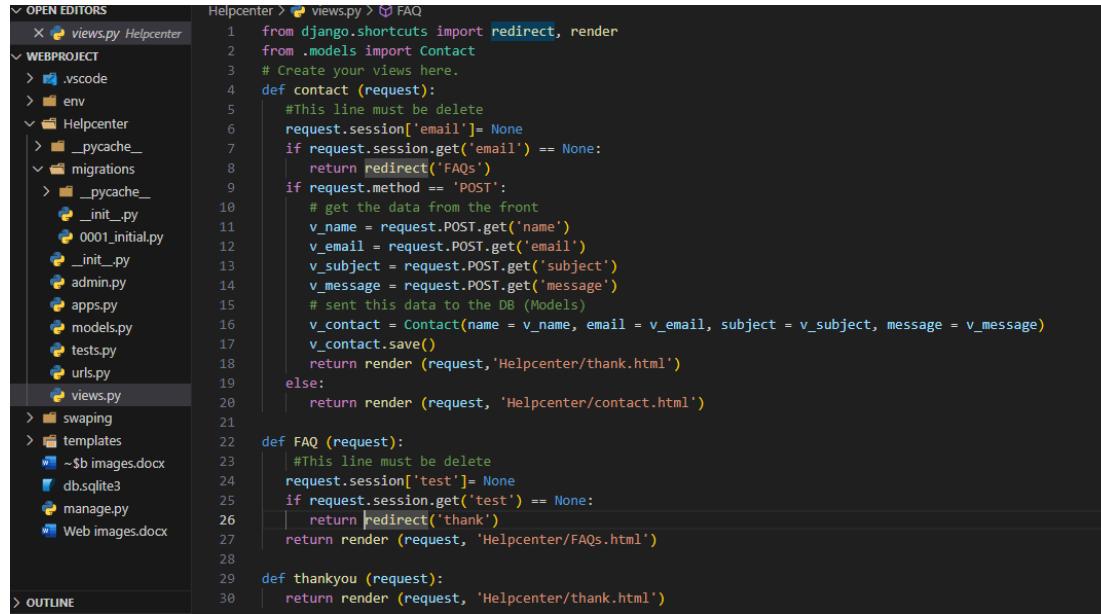
```

from . import views
from django.urls import path
urlpatterns = [
    path ('contact/', views.contact, name='contact'),
    path ('FAQs/', views.FAQ, name = 'FAQs'),
    path('thank_you/', views.thankyou, name = 'thank')
]

```

Figure 3.1 - Urls File

4. View File



The screenshot shows the VS Code interface with the 'views.py' file open in the editor. The file is located in the 'Helpcenter' directory under 'WEBPROJECT'. It contains three view functions: 'contact', 'FAQ', and 'thankyou'. The 'contact' function handles POST requests to store contact information in the database and render a thank-you page. The 'FAQ' and 'thankyou' functions simply render their respective templates.

```

from django.shortcuts import redirect, render
from .models import Contact
# Create your views here.
def contact (request):
    #This line must be delete
    request.session['email']= None
    if request.session.get('email') == None:
        return redirect('FAQs')
    if request.method == 'POST':
        # get the data from the front
        v_name = request.POST.get('name')
        v_email = request.POST.get('email')
        v_subject = request.POST.get('subject')
        v_message = request.POST.get('message')
        # sent this data to the DB (Models)
        v_contact = Contact(name = v_name, email = v_email, subject = v_subject, message = v_message)
        v_contact.save()
        return render (request,'Helpcenter/thank.html')
    else:
        return render (request, 'Helpcenter/contact.html')
def FAQ (request):
    #This line must be delete
    request.session['test']= None
    if request.session.get('test') == None:
        return redirect('thank')
    return render (request, 'Helpcenter/FAQs.html')
def thankyou (request):
    return render (request, 'Helpcenter/thank.html')

```

Figure 4.1 - Views File

6.3.4 Services App

6.3.4.1 Template

1. Borrowed Item Page

```

1  {% extends "base.html" %}
2  {% load static %}
3  {% block content %}
4
5  <!DOCTYPE html>
6  <html lang="en">
7
8  <head>
9      <meta charset="utf-8">
10     <title>Gift Items</title>
11
12     <!-- Google Web Fonts -->
13     <link rel="preconnect" href="https://fonts.gstatic.com">
14     <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400,500,700&display=swap" rel="stylesheet">
15
16     <!-- Customized Bootstrap Stylesheet -->
17     <link href="{% static 'css/style.css' %}" rel="stylesheet">
18
19     <!-- Javascript -->
20     <script src="{% static 'js/main.js' %}"></script>
21
22     <!-- CSS -->
23     <style>
24         .btn1{
25             position: relative;
26             padding: 10px;
27             width: 120px;
28             border: 2px solid #FFD333 !important;
29             background-color: #FFD333 !important;
30             color: #0000;
31             transition: .5s;
32             cursor:pointer;
33         }
34
35         .btn1:before, .btn1:after{
36             transition-timing-function: ease-in-out;
37             transition:all .25s;
38         }

```

Figure 1.1 – Borrowed item HTML File

```

40         .btn1:before{
41             content:"";
42             position: absolute;
43             width:24px;
44             height:24px;
45             top:-2px;
46             left:-2px;
47             border-top:2px solid #rgb(0, 0, 0);
48             border-left:2px solid #rgb(0, 0, 0);
49         }
50
51         .btn1:after{
52             content:"";
53             position: absolute;
54             width:24px;
55             height:24px;
56             bottom:-2px;
57             right:-2px;
58             border-bottom:2px solid #rgb(0, 0, 0);
59             border-right:2px solid #rgb(0, 0, 0);
60         }
61
62         .btn1:hover:before, .btn1:hover:after{
63             width:102px;
64             height:103px;
65         }
66     </style>
67 </head>

```

Figure 1.2 – Borrowed item HTML File

```

69 <body>
70     <div class="container-fluid pt-5 pb-3">
71         <div class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3" style="color: #FFD333">Borrowed items</span></h2>
72         <% for x in post.all %>
73             <div class="col-lg-3 col-md-4 col-sm-6 pb-1">
74                 <div class="product-item bg-light mb-4">
75                     <div class="product-img position-relative overflow-hidden">
76                         
77                     </div>
78                     <div class="text-center py-4">
79                         <div class="d-flex align-items-center justify-content-center mt-2">
80                             <small>{{x.name}}</small>
81                         </div>
82                         <button onclick="goToPage('{{ x.id }}')" class="btn1" More Details/>
83                     </div>
84                 </div>
85             </div>
86         <% endfor %>
87     </div>
88 </div>
89 </body>
90 </html>
91 <% endblock %>

```

Figure 1.3 – Borrowed item HTML File

2. Details Borrowed Item Page

```
1  {% extends 'base.html' %}  
2  {% load static %}  
3  
4  {% block content %}  
5  
6  <!DOCTYPE html>  
7  <html lang="en">  
8  
9  <head>  
10 <meta charset="utf-8">  
11 <title>Borrow's Details</title>  
12  
13 <!-- Favicon -->  
14 <link href="img/favicon.ico" rel="icon">  
15  
16 <!-- Google Web Fonts -->  
17 <link rel="preconnect" href="https://fonts.gstatic.com">  
18 <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap" rel="stylesheet">  
19  
20 <!-- Font Awesome -->  
21 <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">  
22  
23 <!-- Customized Bootstrap Stylesheet -->  
24 <link href="{% static 'css/style.css' %}" rel="stylesheet">  
25 </head>  
26
```

Figure 2.1 – Details Borrowed item HTML File

```
28 <body>  
29 <div class="container-fluid pb-5">  
30   <div class="row px-1l-5">  
31     <div class="col-lg-5 mb-30">  
32       <div id="product-carousel" class="carousel slide" data-ride="carousel">  
33         <div class="carousel-inner bg-light">  
34           <div class="carousel-item active">  
35               
36           </div>  
37         </div>  
38       </div>  
39     </div>  
40  
41     <div class="col-lg-7 h-auto mb-30">  
42       <div class="h-100 bg-light p-30">  
43         <h1>{{ item.name }}</h1>  
44         <br>  
45         <h5 class="font-weight-semi-bold mb-4" style="display: inline-block; color: #FFD333 !important;">Owner: </h5>  
46         <h6 class="font-weight-semi-bold mb-4" style="display: inline-block;">{{ item.owner }}</h6>  
47         <br>  
48         <h5 class="font-weight-semi-bold mb-4" style="display: inline-block; color: #FFD333 !important;">Phone: </h5>  
49         <h6 class="font-weight-semi-bold mb-4" style="display: inline-block;">{{ item.phone }}</h6>  
50         <br>  
51         <h5 class="font-weight-semi-bold mb-4" style="display: inline-block; color: #FFD333 !important;">Description: </h5>  
52         <p class="mb-4">{{ item.description }}</p>  
53       </div>  
54     </div>  
55   </div>  
56 </div>  
57 </body>  
58 [&# endblock %]
```

Figure 2.2 – Details Borrowed item HTML File

3. Swapped Item Page

```

1  (% extends 'base.html' %)
2  (% load static %)
3
4  (% block content %)
5
6  <!DOCTYPE html>
7  <html lang="en">
8
9  <head>
10     <meta charset="utf-8">
11     <title>Swaped Items</title>
12
13     <!-- Google Web Fonts -->
14     <link rel="preconnect" href="https://fonts.gstatic.com">
15     <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;700&display=swap" rel="stylesheet">
16
17     <!-- Customized Bootstrap Stylesheet -->
18     <link href="{% static 'css/style.css' %}" rel="stylesheet">
19
20     <!-- Javascript -->
21     <script src="{% static 'js/main2.js' %}"></script>
22
23     <!-- CSS -->
24     <style>
25         .btn{
26             position: relative;
27             padding: 10px;
28             width: 120px;
29             border: 0px;
30             background-color: #FFD333 !important;
31             color: #0000;
32             transition: .5s;
33             cursor:pointer;
34         }
35
36         .btn::before, .btn::after{
37             transition-timing-function: ease-in-out;
38             transition:all .25s;
39         }
40

```

Figure 3.1 – Swapped item HTML File

```

41         .btn::before{
42             content:"";
43             position :absolute;
44             width:24px;
45             height:24px;
46             top:-2px;
47             left:-2px;
48             border-top:2px solid #rgb(0, 0, 0);
49             border-left:2px solid #rgb(0, 0, 0);
50         }
51
52         .btn::after{
53             content:"";
54             position :absolute;
55             width:24px;
56             height:24px;
57             bottom:-2px;
58             right:-2px;
59             border-bottom:2px solid #rgb(0, 0, 0);
60             border-right:2px solid #rgb(0, 0, 0);
61         }
62
63         .btn:hover::before, .btn:hover::after{
64             width:102%;
65             height:103%;
66         }
67     </style>
68 </head>

```

Figure 3.2 – Swapped item HTML File

```

71 <body>
72     <div class="container-fluid pt-5 pb-3">
73         <div class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3" style="color: #FFD333;">Swap items</span></h2>
74         <div class="row px-xl-5">
75             <% for x in post.all %>
76                 <div class="col-lg-3 col-md-4 col-sm-6 pb-1">
77                     <div class="product-item bg-light mb-4">
78                         <div class="product-img position-relative overflow-hidden">
79                             
80                         </div>
81                         <div class="text-center py-4">
82                             <div class="d-flex align-items-center justify-content-center mt-2">
83                                 <h5>{{x.name}}</h5>
84                                 <button onclick="goToPage('{{ x.id }}')" class="btn">More Details</button>
85                             </div>
86                         </div>
87                     </div>
88                 </div>
89             <% endfor %>
90         </div>
91     </div>
92     </body>
93     </html>
94     {% endblock %}

```

Figure 3.3 – Swapped item HTML File

4. Details Swapped Item Page

```
1  {% extends 'base.html' %}  
2  {% load static %}  
3  
4  {% block content %}  
5  
6  <!DOCTYPE html>  
7  <html lang="en">  
8  
9  <head>  
10 <meta charset="utf-8">  
11 <title>Swap's Details </title>  
12  
13  <!-- Google Web Fonts -->  
14  <link rel="preconnect" href="https://fonts.gstatic.com">  
15  <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500&display=swap" rel="stylesheet">  
16  
17  <!-- Font Awesome -->  
18  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">  
19  
20  <!-- Customized Bootstrap Stylesheet -->  
21  <link href="{% static 'css/style.css' %}" rel="stylesheet">  
22 </head>
```

Figure 4.1 – Details Swapped item HTML File

```
25 <body>  
26  <div class="container-fluid pb-5">  
27  <div class="row px-xxl-5">  
28  <div class="col-lg-5 mb-30">  
29  <div id="product-carousel" class="carousel slide" data-ride="carousel">  
30  <div class="carousel-inner bg-light">  
31  <div class="carousel-item active">  
32    
33  </div>  
34  </div>  
35  </div>  
36 </div>  
37  
38  <div class="col-lg-7 h-auto mb-30">  
39  <div class="h-100 bg-light p-30">  
40  <h1>{{ item.name }}</h1>  
41  <br>  
42  <h5>{{ item.owner }}</h5>  
43  <br>  
44  <h5>{{ item.phone }}</h5>  
45  <br>  
46  <h5>{{ item.description }}</h5>  
47  <br>  
48  <h5>{{ item.description }}</h5>  
49  <br>  
50  <p>{{ item.description }}</p>  
51  </div>  
52  </div>  
53 </div>  
54 </body>  
55  
56  {% endblock %}
```

Figure 4.2 – Details Swapped item HTML File

5. Gift Item Page

```

1  {% extends 'base.html' %}
2  {% block content %}
3
4  {% load static %}
5  <!DOCTYPE html>
6  <html lang="en">
7
8  <head>
9      <meta charset="utf-8">
10     <title>Gift Items</title>
11
12     <!-- Google Web Fonts -->
13     <link rel="preconnect" href="https://fonts.gstatic.com">
14     <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap" rel="stylesheet">
15
16     <!-- Customized Bootstrap Stylesheet -->
17     <link href="{% static 'css/style.css' %}" rel="stylesheet">
18
19     <!-- Javascript -->
20     <script src="{% static 'js/main1.js' %}></script>
21
22     <!-- CSS -->
23     <style>
24         .btn1{
25             position: relative;
26             padding: 10px;
27             width: 120px;
28             border: 0px;
29             background-color: #FFD333 !important;
30             color: #000000;
31             transition: .5s;
32             cursor:pointer;
33         }
34
35         .btn1:before, .btn1:after{
36             transition-timing-function: ease-in-out;
37             transition:all .25s;
38         }
39
40     </style>
41
42 
```

Figure 5.1 – Gift item HTML File

```

40         .btn1:before{
41             content:"";
42             position :absolute;
43             width:24px;
44             height:24px;
45             top:-12px;
46             left:-2px;
47             border-top:2px solid #rgb(0, 0, 0);
48             border-left:2px solid #rgb(0, 0, 0);
49         }
50
51         .btn1:after{
52             content:"";
53             position :absolute;
54             width:24px;
55             height:24px;
56             bottom:-2px;
57             right:-2px;
58             border-bottom:2px solid #rgb(0, 0, 0);
59             border-right:2px solid #rgb(0, 0, 0);
60         }
61
62         .btn1:hover:before, .btn1:hover:after{
63             width:102%;
64             height:103%;
65         }
66     </style>
67
68 </head>

```

Figure 5.2 – Gift item HTML File

```

70 <body>
71     <div class="container-fluid pt-5 pb-3">
72         <div class="section-title position-relative text-uppercase mx-xl-5 mb-4"><span class="bg-secondary pr-3" style="color: #FFD333;">Gift items</span></h2>
73         <div class="row px-xl-5">
74             {% for x in post.all %}
75                 <div class="col-lg-3 col-md-4 col-sm-6 pb-1">
76                     <div class="product-item bg-light mb-4">
77                         <div class="product-img position-relative overflow-hidden">
78                             
79                         </div>
80                         <div class="text-center py-4">
81                             <div class="d-flex align-items-center justify-content-center mt-2">
82                                 <div>
83                                     <div>{{x.name}}</div>
84                                 </div>
85                                 <button onclick="goToPage('{{ x.id }})">More Details</button>
86                             </div>
87                         </div>
88                     </div>
89                 {% endfor %}
90             </div>
91         </div>
92     </body>
93     </html>
94     {% endblock %}

```

Figure 5.3 – Gift item HTML File

6. Details Gift Item Page

```
1  {% extends 'base.html' %}  
2  {% load static %}  
3  
4  {% block content %}  
5  
6  <!DOCTYPE html>  
7  <html lang="en">  
8  
9  <head>  
10   <meta charset="utf-8">  
11   <title>Gifit's Details</title>  
12  
13   <!-- Favicon -->  
14   <link href="img/favicon.ico" rel="icon">  
15  
16   <!-- Google Web Fonts -->  
17   <link rel="preconnect" href="https://fonts.gstatic.com">  
18   <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap" rel="stylesheet">  
19  
20   <!-- Font Awesome -->  
21   <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">  
22  
23   <!-- Customized Bootstrap Stylesheet -->  
24   <link href="{% static 'css/style.css' %}" rel="stylesheet">  
25 </head>
```

Figure 6.1 – Details Gift item HTML File

```
28 <body>  
29   <div class="container-fluid pb-5">  
30     <div class="row px-1-5">  
31       <div class="col-lg-5 mb-30">  
32         <div id="product-carousel" class="carousel slide" data-ride="carousel">  
33           <div class="carousel-inner bg-light">  
34             <div class="carousel-item active">  
35                 
36             </div>  
37           </div>  
38         </div>  
39       </div>  
40       <div class="col-lg-7 h-auto mb-30">  
41         <div class="h-100 bg-light p-30">  
42           <h1>{{ item.name }}</h1>  
43           <br>  
44           <h5>{{ item.owner }}</h5>  
45           <br>  
46           <h5>{{ item.phone }}</h5>  
47           <br>  
48           <h5>{{ item.description }}</h5>  
49         </div>  
50       </div>  
51     </div>  
52   </div>  
53 </body>  
54 <% endblock %>
```

Figure 6.2 – Details Gift item HTML File

6.3.5.2 Static File

```
-->
40 *::before,
41 *::after {
42 | box-sizing: border-box;
43 }
44
45 html {
46 | font-family: sans-serif;
47 | line-height: 1.15;
48 | -webkit-text-size-adjust: 100%;
49 | -webkit-tap-highlight-color: transparent;
50 }
51
52 article, aside, figcaption, figure, footer, header, hgroup, main, nav, section {
53 | display: block;
54 }
55
56 body {
57 | margin: 0;
58 | font-family: "Roboto", sans-serif;
59 | font-size: 1rem;
60 | font-weight: 400;
61 | line-height: 1.5;
62 | color: #6C757D;
63 | text-align: left;
64 | background-color: #F5F5F5;
65 }
```

Figure 2 – JavaScript File

```
Service > static > js > main1.js > goToPage
1 function goToPage(v) {
2 | // Change the URL to the desired page
3 | window.location.href = `GiftDetails/${v}`;
4 }
```

Figure 2 – JavaScript File

```
Service > static > js > main2.js > ...
1 function goToPage(v) {
2 | // Change the URL to the desired page
3 | window.location.href = `SwapDetails/${v}`;
4 }
```

Figure 3 – JavaScript File

```
Service > static > js > main3.js > goToPage
1 function goToPage(v) {
2 | // Change the URL to the desired page
3 | window.location.href = `BorrowDetails/${v}`;
4 }
```

Figure 4 – JavaScript File

6.3.5.3 Django App Files

1. Admin File

```

1  v from django.contrib import admin
2  from . models import borrowedItem,swapedItem,giftItem
3
4  # Register your models here.
5
6  # Database For Borrowed Item
7  admin.site.register(borrowedItem)
8
9  # Database For Swaped Item
10 admin.site.register(swapedItem)
11
12 # Database For Gift Item
13 admin.site.register(giftItem)

```

Figure 1 – Admin File

2. Models File

```

1  from django.db import models
2  # Create your models here.
3  # Database For Borrowed Item
4  class borroweditem(models.Model):
5      name = models.CharField(max_length=250)
6      owner = models.CharField(max_length=100)
7      phone = models.BigIntegerField()
8      description = models.TextField()
9      image = models.ImageField()
10 #The name of the item will appear in front of administrator
11 def __str__(self):
12     return self.name
13
14 # Database For Swaped Item
15 class swapeditem(models.Model):
16     name = models.CharField(max_length=250)
17     owner = models.CharField(max_length=100)
18     phone = models.BigIntegerField()
19     description = models.TextField()
20     image = models.ImageField()
21
22 #The name of the item will appear in front of administrator
23 def __str__(self):
24     return self.name
25
26 # Database For Gift Item
27 class giftitem(models.Model):
28     name = models.CharField(max_length=250)
29     owner = models.CharField(max_length=100)
30     phone = models.BigIntegerField()
31     description = models.TextField()
32     image = models.ImageField()
33
34 #The name of the item will appear in front of administrator
35 def __str__(self):
36     return self.name

```

Figure 2 – Models File

3. URLs File

```
1  from . import views
2  from django.urls import path
3
4  urlpatterns = [
5      path('borrowItems',views.borrowItems,name='borrowItems'),
6      path('BorrowDetails/<int:item_id>/', views.borrowed_item_details, name='Details_BorrowItem'),
7
8      path('swapItems',views.swapItems,name='swapItems'),
9      path('SwapDetails/<int:item_id>/', views.swaped_item_details, name='Details_swapItem'),
10
11     path('giftItems',views.giftItems,name='giftItems'),
12     path('GiftDetails/<int:item_id>/', views.gift_item_details, name='Details_gifItem'),
13
14 ]
15 ]
```

Figure 3.1 -Urls File

4. View File

```
1  from django.shortcuts import render,redirect
2  from . models import borrowedItem,swapedItem,giftItem
3  from django.shortcuts import render, get_object_or_404
4  from PIL import Image
5  from io import BytesIO
6
7  # Create your views here.
8
9  #-----Borrowed Items-----#
10 def borrowItems(request):
11     if request.session.get('email') == None:
12         return redirect('signup')
13     post = borrowedItem.objects.all()
14     return render(request,'Services/borrowItems.html',{'post': post})
15
16 def borrowed_item_details(request, item_id):
17     if request.session.get('email') == None:
18         return redirect('signup')
19     item = get_object_or_404(borrowedItem, id=item_id)
20     context = {
21         'item': item
22     }
23     return render(request, 'Services/Details_BorrowItem.html', context)
24 #-----#
```

Figure 4.1 - View File

Give-N-Take-Hub

```
27 #-----Swaped Items-----#
28 def swapItems(request):
29     if request.session.get('email') == None:
30         return redirect('signup')
31     post = swapitem.objects.all()
32     return render(request, 'Services/swapitems.html',{'post': post})
33
34 def swaped_item_details(request, item_id):
35     if request.session.get('email') == None:
36         return redirect('signup')
37     item = get_object_or_404(swapitem, id=item_id)
38     context = {
39         'item': item
40     }
41     return render(request, 'Services/Details_swapItem.html', context)
42 #-----Gift Items-----#
43
44
45 #-----Gift Items-----#
46 def giftItems(request):
47     if request.session.get('email') == None:
48         return redirect('signup')
49     post = giftitem.objects.all()
50     return render(request, 'Services/giftItems.html',{'post': post})
51
52 def gift_item_details(request, item_id):
53     if request.session.get('email') == None:
54         return redirect('signup')
55     item = get_object_or_404(giftitem, id=item_id)
56     context = {
57         'item': item
58     }
59     return render(request, 'Services/Details_giftItem.html', context)
60 #-----#
```

Figure 4.2 - View File

6.3.5 Rewards App

6.3.5.1 Template

1. Promotion Page

```

1  {% extends 'base.html' %}

2

3  {% block title %}Redeem{% endblock %}

4

5  {% block content %}
6      <style>
7          /* CSS for message styling */
8          .messages {
9              margin-top: 20px;
10         }
11
12         .messages li {
13             padding: 10px;
14             margin-bottom: 10px;
15         }
16
17         /* Different styles for different message tags */
18         .messages .info {
19             background-color: #cce5ff;
20             color: #004085;
21         }
22
23         .messages .success {
24             background-color: #d4edda;
25             color: #155724;
26         }
27
28         .messages .warning {
29             background-color: #fff3cd;
30             color: #856404;

```

Figure 1.1 – Promotion HTML File

```

30         color: #856404;
31     }
32
33     .messages .error {
34         background-color: #f8d7da;
35         color: #721c24;
36     }
37 </style>

38 <div class="container-fluid mt-3">
39     <div class="row">
40         <div class="col-md-6">
41             <h1 class="text-center mb-3">Redeem Coupons</h1>
42             <ul class="messages">
43                 {% for message in messages %}
44                     <li class="{{ message.tags }}">{% message %}</li>
45                 {% endfor %}
46             </ul>
47             {% for coupon in coupons %}
48                 <div class="card mb-3">
49                     <div class="card-header text-center">{{ coupon.sponsor_name }}</div>
50                     <div class="card-body">
51                         <p class="card-text">Needed Points: {{ coupon.needed_points }}</p>
52                         <p class="card-text">Expiration Date: {{ coupon.expiration_date }}</p>
53                         <p class="card-text">Unique Code: {{ coupon.unique_code }}</p>
54                         <form action="{% url 'reward:redem_coupon' coupon.id %}" method="POST">
55                             {% csrf_token %}
56                             <button type="submit" class="btn btn-primary btn-block">Thank You For The Co
57                         </form>
58

```

Figure 1.2 – Promotion HTML File

```
54      p class="card card--unique-code"> {{ coupon.unique_code }} </p>
55      <form action="{% url 'reward:redem_coupon' coupon.id %}" method="POST">
56          {% csrf_token %}
57          <button type="submit" class="btn btn-primary btn-block">
58              Thank You For The Code Redeem</button>
59      </form>
60  </div>
61  </div>
62  {% endfor %}
63  </div>
64  </div>
65  {% endblock %}
66
67
```

Figure 1.3 – Promotion HTML File

2. Leaderboard Page

```
{% extends 'base.html' %}

{% block title %}Leaderboard{% endblock %}

{% block content %}
    <div class="container-fluid mt-3">
        <h1 class="text-center mb-3">Leaderboard</h1>
        <div class="table-responsive">
            <table class="table table-striped table-bordered">
                <thead class="thead-dark">
                    <tr>
                        <th>Rank</th>
                        <th>Username</th>
                        <th>Points</th>
                    </tr>
                </thead>
                <tbody>
                    {% for customer in customers %}
                    <tr>
                        <td>{{ forloop.counter }}</td>
                        <td>{{ customer.userName }}</td>
                        <td>{{ customer.points }}</td>
                    </tr>
                    {% endfor %}
                </tbody>
            </table>
        </div>
        <p id="clock"></p> <!-- Paragraph tag to hold the clock output -->
    </div>
</div>
```

Figure 2.1 – Leaderboard HTML File

6.3.5.2 Static File

```
18 |     <p id="clock"></p> <!-- Paragraph tag to hold the clock output -->
19 |   </div>
20 |
21 <script>
22 |   // Function to display the current time
23 |   function displayTime() {
24 |     var date = new Date();
25 |     var hours = date.getHours();
26 |     var minutes = date.getMinutes();
27 |     var seconds = date.getSeconds();
28 |     var ampm = hours >= 12 ? 'PM' : 'AM';
29 |
30 |     // Convert hours to 12 hour format
31 |     hours = hours % 12;
32 |     hours = hours ? hours : 12;
33 |
34 |     // Add leading zeros to minutes and seconds if needed
35 |     minutes = minutes < 10 ? '0' + minutes : minutes;
36 |     seconds = seconds < 10 ? '0' + seconds : seconds;
37 |
38 |     // Output the current time to the clock paragraph element
39 |     var timeString = hours + ':' + minutes + ':' + seconds + ' ' + ampm;
40 |     document.getElementById('clock').innerHTML = timeString;
41 |   }
42 |
43 |   // Call the displayTime function every second to update the clock
44 |   setInterval(displayTime, 1000);
45 | </script>
46 {%- endblock %}
```

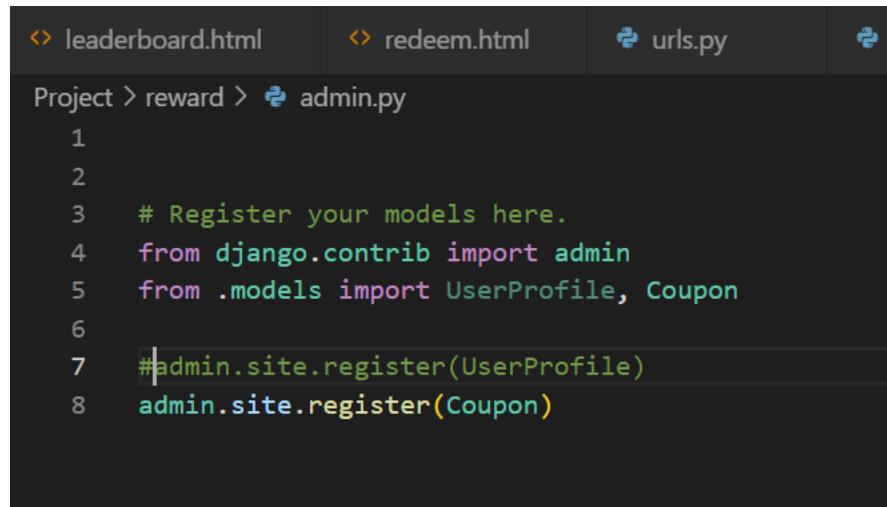
Figure 1 – JavaScript File

```
Project > reward > static > reward_app > css > # style.css > {} @media (max-width: 768px)
1  @media (max-width: 768px) {
2    .card {
3      background-color: ■white;
4      color: □black;
5    }
6  }
7
8  .card-header {
9    background-color: ■#F8D700;
10   color: □black;
11 }
12
13
14
15  .card-text {
16    color: ■white;
17 }
18
19  .btn-primary {
20    background-color: ■#F8D700;
21    border-color: ■#F8D700;
22 }
23
24  .btn-primary:hover {
25    background-color: □black;
26    border-color: ■#F8D700;
27 }
```

Figure 2 – CSS File

6.3.5.4 Django App Files

1. Admin File

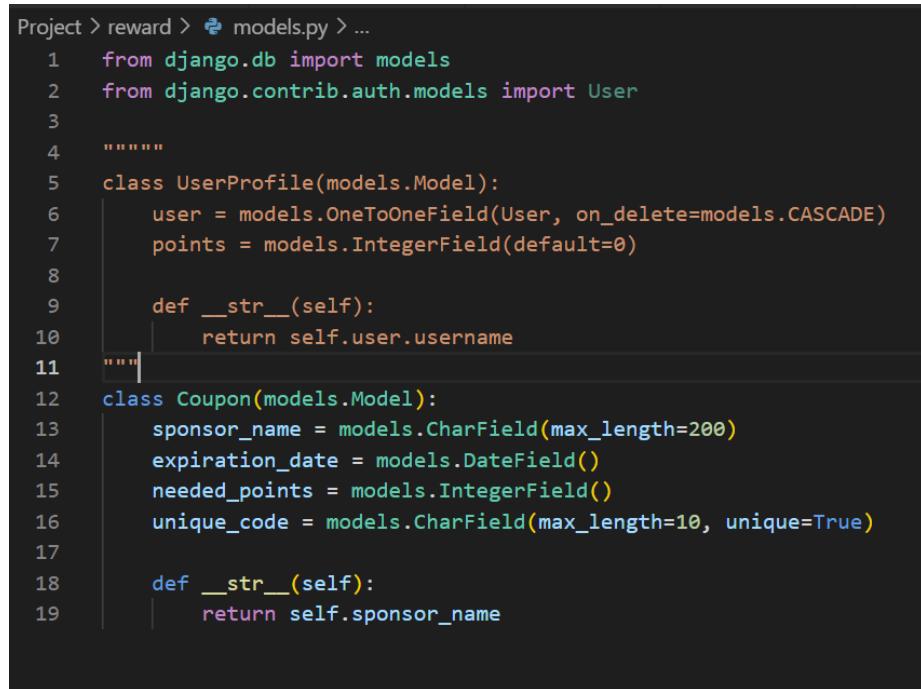


The screenshot shows a code editor with a dark theme. At the top, there are tabs for 'leaderboard.html', 'redeem.html', 'urls.py', and 'admin.py'. The current file is 'admin.py', which is located in the 'reward' app under 'Project'. The code in the editor is:

```
1
2
3 # Register your models here.
4 from django.contrib import admin
5 from .models import UserProfile, Coupon
6
7 #admin.site.register(UserProfile)
8 admin.site.register(Coupon)
```

Figure 1.1 – Admin File

5. Model File



The screenshot shows a code editor with a dark theme. The current file is 'models.py', which is located in the 'reward' app under 'Project'. The code defines two models: 'UserProfile' and 'Coupon'. The 'UserProfile' model has a one-to-one relationship with the 'User' model and a field 'points' (default 0). The 'Coupon' model has fields for 'sponsor_name', 'expiration_date', 'needed_points', and a unique 'unique_code'. Both models have a __str__ method returning the user's username or sponsor's name respectively.

```
1 from django.db import models
2 from django.contrib.auth.models import User
3
4 """
5 class UserProfile(models.Model):
6     user = models.OneToOneField(User, on_delete=models.CASCADE)
7     points = models.IntegerField(default=0)
8
9     def __str__(self):
10         return self.user.username
11 """
12 class Coupon(models.Model):
13     sponsor_name = models.CharField(max_length=200)
14     expiration_date = models.DateField()
15     needed_points = models.IntegerField()
16     unique_code = models.CharField(max_length=10, unique=True)
17
18     def __str__(self):
19         return self.sponsor_name
```

Figure 2.1 -Model File

6. URLs File

```
from django.urls import path
from . import views

app_name = 'reward'

urlpatterns = [
    path('', views.leaderboard, name='leaderboard'),
    path('redeem/', views.redeem, name='redeem'),
    path('redeem_coupon/<int:coupon_id>/', views.redeem_coupon, name='redeem_coupon'),
    # path('create_coupon/', views.create_coupon, name='create_coupon'),
]
```

Figure 3.1 -Urls File

7. View File

```
1  from django.shortcuts import get_object_or_404, redirect, render
2  from django.contrib import messages
3  from datetime import datetime
4  from .models import Coupon
5  from django.core.cache import cache
6  from account.models import customer
7
8  def redeem(request):
9      coupons = Coupon.objects.all()
10     return render(request, 'reward_app/redeem.html', {'coupons': coupons})
11
12 def redeem_coupon(request, coupon_id):
13     if request.session.get("email") is None:
14         return redirect("signup")
15
16     coupon = get_object_or_404(Coupon, pk=coupon_id)
17
18     try:
19         user_profile = customer.objects.get(email=request.user.email)
20     except customer.DoesNotExist:
21         messages.error(request, 'User profile not found')
22         return redirect('login')
23
24     if coupon.expiration_date < datetime.now().date():
25         messages.error(request, 'Coupon has expired')
26     elif user_profile.points < coupon.needed_points:
27         messages.error(request, 'You do not have enough points to redeem this coupon')
28     else:
29         user_profile.points -= coupon.needed_points
30         user_profile.save()
```

Figure 4.1 - Views File

```

else:
    user_profile.points -= coupon.needed_points
    user_profile.save()
    coupon_code = coupon.unique_code
    messages.success(request, f'Congratulations! You have redeemed the coupon from {coupon.sponsor_name}!')

return redirect('reward:redem')

```

Figure 4.2 - Views File

```

def leaderboard(request):
    if request.session.get('email') is None:
        return redirect('signup')
    customers = cache.get('leaderboard')
    if customers is None:
        customers = customer.objects.order_by('-points')[10]
        cache.set('leaderboard', customers, 120) # cache for 2 minutes
    return render(request, 'reward_app/leaderboard.html', {'customers': customers})

```

Figure 4.3 - Views File

6.3.6 Main Project

```

{% load static %}
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8">
        <title>MultiShop - Online Shop Website</title>
        <meta content="width=device-width, initial-scale=1.0" name="viewport">
        <meta content="Online Marketplace" name="keywords">
        <meta content="This Website provides a set of three primary services, namely, borrowing, bartering, and gifting. Whether you're looking to one of these services, our platform makes it easy and accessible to you!" name="description">

        <!-- Google Web Fonts -->
        <link rel="preconnect" href="https://fonts.gstatic.com">
        <link href="https://fonts.googleapis.com/css2?family=Roboto:wght@400;500;700&display=swap" rel="stylesheet">

        <!-- Font Awesome -->
        <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">

        <!-- Customized Bootstrap Stylesheet -->
        <link href="{% static 'css/style.css' %}" rel="stylesheet">
    </head>

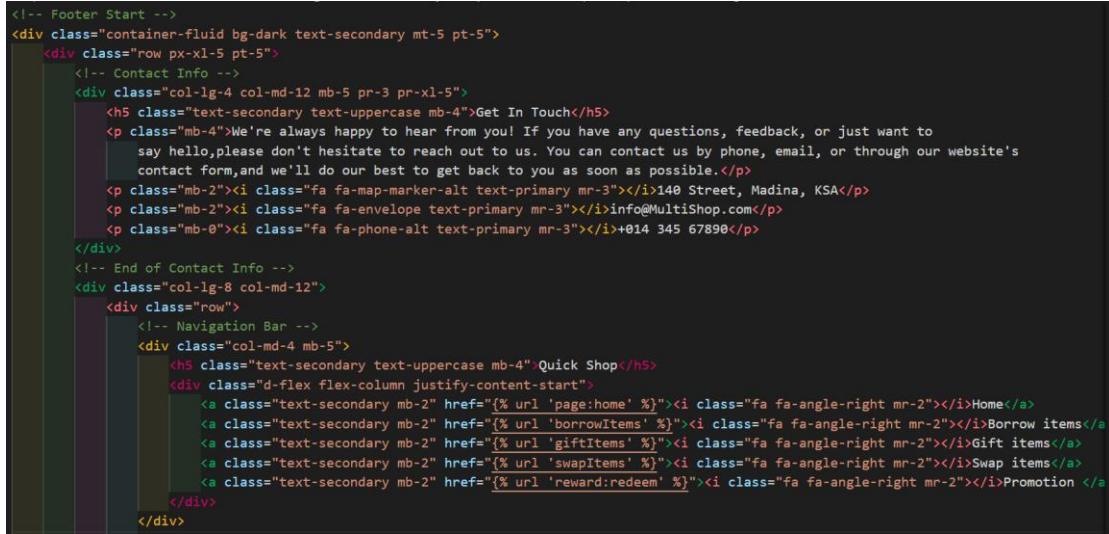
    <body>
        <!-- Content here -->
        {% include 'part/header.html' %}
        {% block content %}
        {% endblock %}
        {% include 'part/footer.html' %}
        <!-- JavaScript Libraries -->
        <script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
        <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.bundle.min.js"></script>

        <!-- Template Javascript -->
        <script src="{% static 'js/main.js' %}"></script>
    </body>
</html>

```

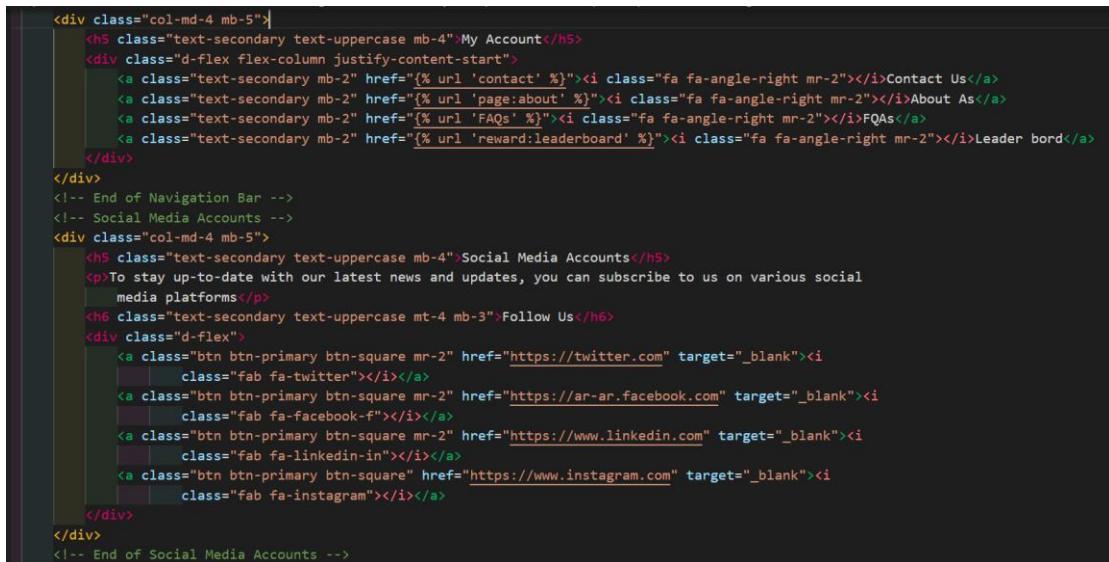
Figure 1.1 – Base HTML File

Chapter 6 - Appendices



```
<!-- Footer Start -->
<div class="container-fluid bg-dark text-secondary mt-5 pt-5">
    <!-- Contact Info -->
    <div class="row px-xl-5 pt-5">
        <div class="col-lg-4 col-md-12 mb-5 pr-3 pr-xl-5">
            <h5 class="text-secondary text-uppercase mb-4">Get In Touch</h5>
            <p class="mb-4">We're always happy to hear from you! If you have any questions, feedback, or just want to say hello, please don't hesitate to reach out to us. You can contact us by phone, email, or through our website's contact form, and we'll do our best to get back to you as soon as possible.</p>
            <p class="mb-2"><i class="fa fa-map-marker-alt text-primary mr-3"></i>140 Street, Madina, KSA</p>
            <p class="mb-2"><i class="fa fa-envelope text-primary mr-3"></i>info@MultiShop.com</p>
            <p class="mb-0"><i class="fa fa-phone-alt text-primary mr-3"></i>+014 345 67890</p>
        </div>
    <!-- End of Contact Info -->
    <div class="col-lg-8 col-md-12">
        <div class="row">
            <!-- Navigation Bar -->
            <div class="col-md-4 mb-5">
                <h5 class="text-secondary text-uppercase mb-4">Quick Shop</h5>
                <div class="d-flex flex-column justify-content-start">
                    <a class="text-secondary mb-2" href="#">Home</a>
                    <a class="text-secondary mb-2" href="#">Borrow items</a>
                    <a class="text-secondary mb-2" href="#">Gift items</a>
                    <a class="text-secondary mb-2" href="#">Swap items</a>
                    <a class="text-secondary mb-2" href="#">Reward:redeem</a>
                </div>
            </div>
        </div>
    </div>
</div>
```

Figure 2.1 – Footer HTML File



```
<div class="col-md-4 mb-5">
    <h5 class="text-secondary text-uppercase mb-4">My Account</h5>
    <div class="d-flex flex-column justify-content-start">
        <a class="text-secondary mb-2" href="#">Contact Us</a>
        <a class="text-secondary mb-2" href="#">About As</a>
        <a class="text-secondary mb-2" href="#">FQAs</a>
        <a class="text-secondary mb-2" href="#">Leader bord</a>
    </div>
<!-- End of Navigation Bar -->
<!-- Social Media Accounts -->
<div class="col-md-4 mb-5">
    <h5 class="text-secondary text-uppercase mb-4">Social Media Accounts</h5>
    <p>To stay up-to-date with our latest news and updates, you can subscribe to us on various social media platforms</p>
    <h6 class="text-secondary text-uppercase mt-4 mb-3">Follow Us</h6>
    <div class="d-flex">
        <a class="btn btn-primary btn-square mr-2" href="https://twitter.com" target="_blank"><i class="fab fa-twitter"></i></a>
        <a class="btn btn-primary btn-square mr-2" href="https://ar-ar.facebook.com" target="_blank"><i class="fab fa-facebook-f"></i></a>
        <a class="btn btn-primary btn-square mr-2" href="https://www.linkedin.com" target="_blank"><i class="fab fa-linkedin-in"></i></a>
        <a class="btn btn-primary btn-square mr-2" href="https://www.instagram.com" target="_blank"><i class="fab fa-instagram"></i></a>
    </div>
</div>
<!-- End of Social Media Accounts -->
```

Figure 2.2 – Footer HTML File



```
</div>
</div>
<!-- Copyright -->
<div class="row border-top mx-xl-5 py-4" style="border-color: rgba(256, 256, 256, .1) !important;">
    <div class="col-md-6 px-xl-0">
        <p class="mb-md-0 text-center text-md-left text-secondary">
            © All Rights Reserved. Developed by
            <a class="text-primary"> Sana, Salwa, Samah, Fatima and Shatha</a>
        </p>
    </div>
</div>
<!-- End of Copyright -->
</div>
<!-- Footer End -->
```

Figure 2.3 – Footer HTML File

Give-N-Take-Hub

```
<!-- Load the Google Translate API -->
<script src="https://translate.google.com/translate_a/element.js?cb=googleTranslateElementInit"></script>
<script>
    function googleTranslateElementInit() {
        new google.translate.TranslateElement(
            { pageLanguage: "en" },
            "google_translate_element"
        );
    }
</script>
<!-- Topbar Start -->
<div class="container-fluid">
    <div class="row bg-secondary py-1 px-xl-5">
        <div class="col-lg-6 d-none d-lg-block">
            <div class="d-inline-flex align-items-center h-100">
                <a class="text-body mr-3" href="#">About</a>
                <a class="text-body mr-3" href="#">Contact</a>
                <a class="text-body mr-3" href="#">FAQs</a>
                <a class="text-body mr-3" href="#">Sign up</a>
                <a class="text-body mr-3" href="#">Log in</a>
                <a class="text-body mr-3" href="#">Log out</a>
            </div>
        </div>
    </div>
```

Figure 3.1 – Header HTML File

```
</div>
<div class="col-lg-6 text-center text-lg-right">
    <div class="d-inline-flex align-items-center">
        <div class="btn-group mx-2">
            <div id="google_translate_element"></div>
        </div>
    </div>
</div>
<div class="row align-items-center bg-light py-3 px-xl-5 d-none d-lg-flex">
    <div class="col-lg-4">
        <a href="#" class="text-decoration-none">
            <span class="h1 text-uppercase text-primary bg-dark px-2">GIT N </span>
            <span class="h1 text-uppercase text-dark bg-primary px-2 ml-n1">TAKE HUB</span>
        </a>
    </div>
    <div class="col-lg-4 col-6 text-left"></div>
    <div class="col-lg-4 col-6 text-right">
        <p class="m-0">Customer Service</p>
        <h5 class="m-0">+014 345 67890</h5>
    </div>
</div>
<!-- Topbar End -->
```

Figure 3.2 – Header HTML File

```
<!-- Navbar Start -->
<div class="container-fluid bg-dark mb-30">
    <div class="row px-xl-5">
        <div class="col-lg-3 d-none d-lg-block">
            <a class="btn d-flex align-items-center justify-content-between bg-primary w-100" data-toggle="collapse"
               href="#navbar-vertical" style="height: 65px; padding: 0 30px">
                <h6 class="text-dark m-0"><i class="fa fa-bars mr-2"></i>Services</h6>
                <i class="fa fa-angle-down text-dark"></i>
            </a>
            <nav class="collapse position-absolute navbar navbar-vertical navbar-light align-items-start p-0 bg-light"
                 id="navbar-vertical" style="width: calc(100% - 30px); z-index: 999">
                <div class="navbar-nav w-100">
                    <a href="#">Borrow</a>
                    <a href="#">Gift</a>
                    <a href="#">Swap</a>
                </div>
            </nav>
        </div>
```

Figure 3.3 – Header HTML File

Chapter 6 - Appendices

```
<div class="col-lg-9">
  <nav class="navbar navbar-expand-lg bg-dark navbar-dark py-3 py-lg-0 px-0">
    <button type="button" class="navbar-toggler" data-toggle="collapse" data-target="#navbarCollapse">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse justify-content-between" id="navbarCollapse">
      <div class="navbar-nav mr-auto py-0">
        <a href="{% url 'page:home' %}" class="nav-item nav-link active">Home</a>
        <a href="{% url 'reward:redem' %}" class="nav-item nav-link">Promotion</a>
        <a href="{% url 'reward:leaderboard' %}" class="nav-item nav-link">Leader Board</a>
        <a href="{% url 'request' %}" class="nav-item nav-link">Add Item</a>
      </div>
    </div>
  </nav>
</div>
<!-- Navbar End -->
```

Figure 3.4 – Header HTML File

Give-N-Take-Hub

```
32 # Application definition
33
34 INSTALLED_APPS = [
35     'page.apps.PageConfig',
36     'account.apps.AccountConfig',
37     'service.apps.ServiceConfig',
38     'reward.apps.RewardAppConfig',
39     'Helpcenter.apps.HelpcenterConfig',
40     'django.contrib.admin',
41     'django.contrib.auth',
42     'django.contrib.contenttypes',
43     'django.contrib.sessions',
44     'django.contrib.messages',
45     'django.contrib.staticfiles',
46 ]
```

Figure 4.1 – Setting File

```
21 # Static files (CSS, JavaScript, Images)
22 # https://docs.djangoproject.com/en/4.2/howto/static-files/
23
24 STATIC_URL = 'static/'
25
26 # Default primary key field type
27 # https://docs.djangoproject.com/en/4.2/ref/settings/#default-auto-field
28
29 DEFAULT_AUTO_FIELD = 'django.db.models.BigAutoField'
30
31 #MEDIA
32 MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
33 MEDIA_URL = '/media/'
34
```

Figure 4.2 – Setting File

```
services > 📄 urls.py > ...
1 """
2 URL configuration for services project.
3
4 The `urlpatterns` list routes URLs to views. For more information please see:
5     https://docs.djangoproject.com/en/4.2/topics/http/urls/
6 Examples:
7 Function views
8     1. Add an import: from my_app import views
9     2. Add a URL to urlpatterns: path('', views.home, name='home')
10 Class-based views
11     1. Add an import: from other_app.views import Home
12     2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
13 Including another URLconf
14     1. Import the include() function: from django.urls import include, path
15     2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))
16 """
17 from django.contrib import admin
18 from django.urls import path,include
19 from django.conf import settings
20 from django.conf.urls.static import static
21
22 urlpatterns = [
23     path('admin/', admin.site.urls),
24     path('', include('page.urls', 'page'), namespace='page'),
25     path('Service/', include('Service.urls')),
26     path('account/', include('account.urls')),
27     path('reward/', include('reward.urls')),
28     path('Helpcenter/', include('Helpcenter.urls')),
29 ]
30 ] + static(settings.MEDIA_URL,document_root = settings.MEDIA_ROOT ) # For Media
31
```

Figure 5.1 – URL File

6.4 Appendix References

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