



**Software Engineering - Coursework– Sprint 4**

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## Technical Components & Design

### Overview

The FitXchange platform is designed to facilitate the exchange of outfits for various social and professional occasions through a robust, database-driven web application. This overview highlights some of the iterative improvements that have been applied to the technical infrastructure. It also demonstrates the application of systematic diagrams into an initial prototype that aims to meet the expectations of our users' goals.

Our development process was driven by user stories, ensuring that the platform aligns with real world needs and interactions. These user stories helped shape the core features and guided the creation of wireframes, which served as blueprints for the interface and interactions.

#### Technical Infrastructure:

- **Front-End Technologies:** The client-facing side of FitXchange is built using HTML and Pug, a high-performance template engine, which together streamline the creation of HTML markup. JavaScript is extensively used to enhance the interactivity of the web pages, providing a dynamic user experience. This design also employs intermediate CSS styling to improve visibility and device responsiveness.
- **Back-End Technologies:** Node.js serves as the core back-end runtime environment, allowing for scalable server-side scripting some of which specifically target the following areas(dropdown visibility when clicking the search button, listing image formatting and catalogue click behaviours). Docker containers are employed to encapsulate the application's environment, ensuring consistency across development, testing, and production landscapes. We have included more libraries such as npm express-session to facilitate the tracking on user session related behaviours. This implementation has made a significant improvement to support simultaneous users. We developed controllers that act as an interface between our views and models to handle user interactions and business logic, seamlessly integrating the backend with the front-end templates. New libraries involved the use of bcrypt, express NLP Artificial intelligence API connectors.
- **Database Solution:** MySQL, a robust relational database management system, is used to manage structured data efficiently. It supports complex queries and transactions, making it ideal for handling the intricate data relationships within FitXchange. We have made significant updates to the initial design to allow for more streamlined relational database. By stripping away unnecessary tables such as outfits for a more collective structure such as inventory. We

have also reviewed our user stories in more detail and have identified additional tables that will be required by our system.

#### **Application of Systematic Diagrams:**

- **Entity-Relationship Diagram (ERD):** Critical for visualizing the structured data in MySQL, the ERD helps define and refine the relational database schema, crucial for effective data management and integrity.
- **Use Case Diagram:** This diagram provides insights into user interactions with the system, clarifying the various functionalities available to different user roles within FitXchange and guiding the user interface design.
- **Sequence Diagrams:** Essential for detailing the interactions between objects over time, sequence diagrams depict the order of operations triggered by transactions, helping developers understand and implement the flow of processes accurately.
- **Activity Diagrams:** These diagrams are used to visualize the flow of operations within specific functionalities, helping to map out the logic behind user activities and system responses, which is vital for coding the back-end services.

#### **Advanced Feature Details**

##### *Overview of Planned Advanced Features:*

User Login Enhancements: We plan to implement secure authentication by incorporating robust hashing functions for passwords, utilizing bcrypt, and adding cookie management for the “remember me” feature. Cookies will be set in accordance with GDPR guidelines (with appropriate expiry).

Matching Algorithm & Recommendations: An advanced matching algorithm is under consideration to tailor outfit suggestions based on user preferences and historical interactions. Although the algorithm is still in the design phase, its aim is to improve user engagement by recommending outfits that match personal style and event requirements.

User Points/Ratings System: A points system and advanced rating mechanism will be implemented to allow users to rate outfits and experiences. This will incentivize quality listings and create a trust system across the platform.

In-App Messaging: We will develop a basic in-app messaging feature to facilitate communication between users and administrators for dispute management and general queries.

External API Integrations: Planned integrations include using external APIs (such as maps for location-based services and weather data) to enrich the user experience, where relevant.

##### *Implementation Approach:*

We will leverage technologies such as Node.js for backend processing, bcrypt for password security, and Chart.js for any administrative statistics. Each feature will be developed iteratively and tested using our CI/CD pipeline.

## DevOps and CI/CD Workflows

### *Docker and CI/CD Implementation:*

Docker Build Workflow: A Docker image build workflow has been implemented. This workflow encapsulates the entire development environment, ensuring consistency across development, testing, and production deployments.

GitHub Actions Pipeline: We have set up a GitHub Actions workflow that automates our build process.

The pipeline includes:

- Build Stage: Building the Docker image.
- Test Stage: Running automated tests to verify new changes.
- Deployment Stage: Deploying to a staging environment.

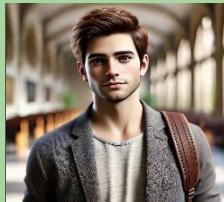
These steps contribute to faster iterations and improved deployment consistency.

## Personas

### Gerald Thompson

**Name:** Gerald Thompson

"When I set a goal, I give 100% to achieve it. Not immediately, but definitely".



#### Demographics:

Age: 21-23

Gender: Male

Occupation: Final-year university student

Location: London, UK

Relationship Status: Single

Title: Mr

Education: Bachelor's degree in progress

#### Goals and Challenges:

- Secure his first professional job
- Feel confident and well prepared for interviews
- Make a lasting positive impression on employers

#### Motivation

- Wants to make a great first impression in job interviews
- Aspires to kickstart his career with confidence
- Values professionalism and knows attire plays a role in success
- Seeks an accessible solution without financial strain

#### Frustrations:

- Cannot afford to buy a formal suit on a student budget
- Limited knowledge of where to borrow or rent a suit
- Worried about finding the right fit and looking presentable
- Concerned about comparing with well-dressed candidates who may have more resources.

#### User Story:

As a final-year student preparing to enter the job market, I want access to a practical and affordable suit borrowing service, so that I can dress professionally for interviews without the financial burden of buying a suit.

#### User Scenario:

Gerald, a final year student at Roehampton University, is actively applying for jobs in his field. He knows that making a strong first impression at interview is crucial, but buying a new suit is too expensive.

Living in student accommodation with limited storage, he prefers to borrow a well-maintained suit for a short time rather than owing one. He looks for an easy-to-use website that offers a variety of sizes and styles, with clear size guides to ensure the right fit. Affordable or free options with flexible returns, ideally near campus or with online booking, would be ideal.

This service would help Gerald present himself smartly and professionally without financial strain.

## Ruby Bennet



**Name:** Ruby Bennet

"A great outfit can boost confidence. If I can help someone feel their best, why not?"

### Demographics:

Age: 27-32

Gender: Female

Occupation: Software Engineer

Location: London, UK

Relationship Status: Single

Title: Miss

Education: Bachelor's degree in software engineering

### Goals and Challenges:

- Share her well-maintained outfits with those in need
- Use a secure and structured platform to list her clothes
- Make the lending process simple and hassle-free
- Ensure her outfits are returned in good condition
- Support a sustainable fashion approach

### Motivation:

- Helping others feel confident for important events
- Reducing clothing waste by promoting reuse
- Making good use of outfits that would otherwise sit unused

### Frustrations:

- Lack of a secure platform that simplifies lending
- Unclear communication with borrowers
- Risk of outfits not being returned or getting damaged
- Websites that are cluttered or difficult to navigate

### Environment:

- Lives in a busy city (London), likely in a modern apartment
- Works in an office or hybrid setting at a tech company

### User Story:

Ruby is a software engineer working at a tech company. She owns many well-maintained suits and outfits that she no longer needs but would like to lend to others for their special occasions. Ruby is looking for a website where she can list her outfits, allowing people in need to borrow them easily.

### User Scenario:

Ruby is a software engineer working at a tech company and a professional in her field. Over the years, she has accumulated many well-maintained outfits. She wants to lend her clothes to those who need them for special occasions. To do this, Ruby is looking for a reliable website where she can securely share her contact information and provide detailed descriptions of her outfits. She needs a well-structured platform that allows her to add the necessary details so other users can easily find and borrow the perfect outfit without confusion.



## Project Documentation

### Application Features

- Borrow and lend outfits: users can browse available outfits, request rentals, and track their order list. Additionally, they can list clothing items and set rental conditions.
- User profiles and customization: personalized profiles allow users to manage their preferences, and rental activities.
- Transaction management: the system keeps track of requests, approvals, payments, and returns, ensuring a smooth and transparent process.
- Sustainable fashion initiative: by encouraging outfit sharing, FitXchange reduces clothing waste and supports eco-friendly consumption.

### User Stories:

#### Borrowing & Returning

1. **Browsing and Filtering:** As a user seeking professional or special occasion attire, I want to browse and filter a collection of outfits, so that I can quickly identify pieces that match my style and my event needs.
2. **Authenticity and Initial Quality Assurance:** As a user, I want assurance that each outfit is authentic, well-maintained, and ethically sourced, so that I can feel confident in my choice and the integrity of the platform.
3. **Transaction and Rental Process:** As a user, I want an effortless rental process, including clear pricing, secure payment, and flexible options, so that my experience is seamless and hassle-free.
4. **Delivery and Returning:** As a user, I want delivery and return information to be clear and accessible, so that I can easily understand my options and plan accordingly.
5. **Fashion Advice and Trends:** As a user unfamiliar with professional or formal dress codes, I want access to fashion tips and trend insights, so that I can dress appropriately and stay stylish.
6. **Reviews and Ratings:** As a user, I want to leave and read reviews on outfits and lenders so that I can make informed decisions about rentals.

## Lending

7. **Creating Listings:** As a user with well-maintained items that are no longer in regular use, I want to easily create detailed and visually appealing listings, so that I can share my outfits with others while ensuring that they're presented accurately.
8. **Lending Conditions:** As a user, I want to define lending conditions such as rental duration, pricing, deposit and care instructions, so that I can manage risk, protect my belongings and ensure proper use.

## Administrating

9. **User Verification and Security:** As an administrator, I want to verify new users/user identities, so that the platform remains safe, transparent and authentic for all users.
10. **Moderating and Policy Enforcement:** As an administrator, I want to effectively manage conflicts and ensure adherence to platform guidelines such as ethical, environmental and intellectual property standards, so that disputes are resolved fairly, and the platforms reputation is maintained.

## Account Management

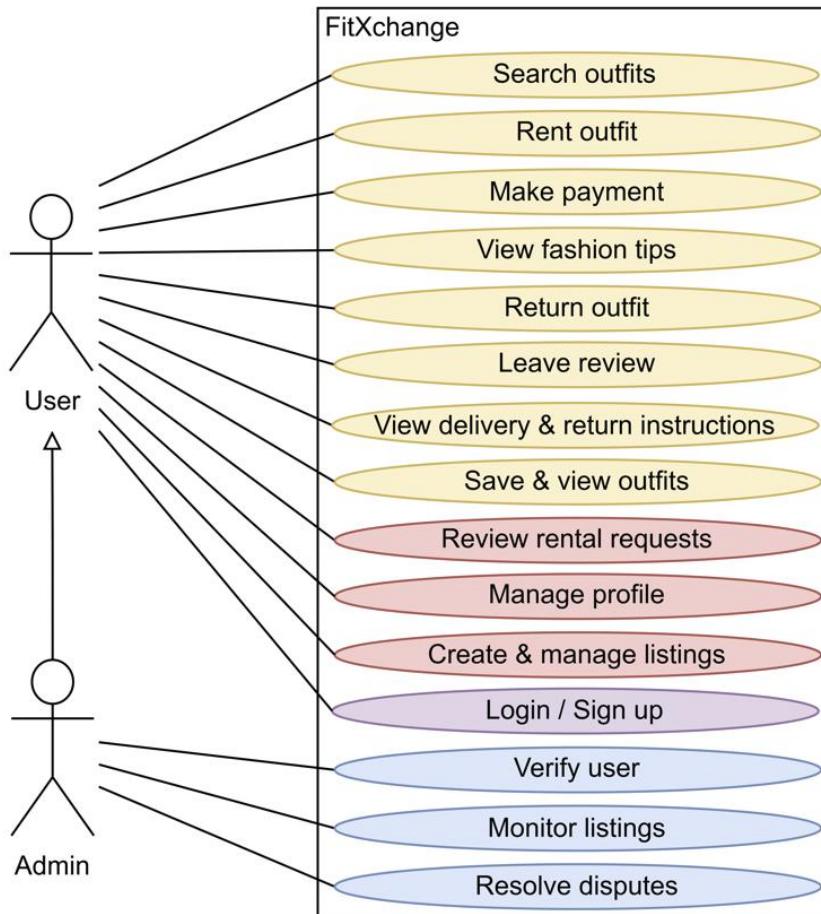
11. **Sign-up and Login:** As a user of the system, I want to be able to create and log in to my account securely while also being notified of the terms and conditions of the service, so that I can make an account and safely become a functioning member of the platform.
12. **Dashboard and Profile Management:** As a user I want to edit my profile information, including saved outfits or my listings so that I can personalise my experience and keep my dashboard up to date.

## *Justification*

The user stories were designed to meet the needs of both Gerald Thompson, who values a secure and scalable platform, and Ruby Bennet, who prioritizes an intuitive and user-friendly experience. Borrowers and lenders benefit from seamless browsing, secure transactions, and clear rental conditions, ensuring accessibility while maintaining trust. The platform administrator must be able to verify users and enforce policies with strong security and moderation tools, keeping the platform safe and transparent. Additionally, account management tools ensure seamless onboarding and profile creation, ensuring the platform is efficient, secure, and easy to use.



## Use Case Diagram



### Rationale for User Role Generalization:

- **Generalized User Roles:** In FitXchange, while there are theoretically three types of interactions—buying, selling, and administrative—these roles share common attributes and behaviors that allow them to be generalized into two main roles: User and Administrator.
- **User Role:** This role encompasses both buyers and sellers. The decision to generalize these roles into a single 'User' actor in the use case diagram stems from the overlapping functionalities they share, such as browsing items, managing accounts, and processing transactions. A user on FitXchange can seamlessly switch between buying and selling outfits, reflecting the dual nature of their engagement with the platform. This design simplifies the system architecture and reduces complexity by eliminating redundant processes.

#### Justification In Further Detail:

- These use cases were refined to ensure that they align closely with the users' needs while also maintaining clarity and efficiency in the platform's interactions. **Browsing and renting** are the central functions, as mentioned in the key features of this project, they allow users to **search outfits, view verification details and rent** with confidence, eliminating the need for a separate authenticity check. Likewise, the **payment** and **return** processes are streamlined to facilitate smooth transactions, with clear **return and delivery instructions** enhancing user convenience. **Fashion tips** and **reviews** were newly added to enhance user confidence and ensure engagement to the platform by letting users provide guidance and community feedback.
- For **lenders**, the ability to **create and manage listings** ensures that their outfits are being properly represented, while **reviewing rental requests** helps them maintain control over their items.
- Account management was further refined from the last sprint, splitting **profile and dashboard management** while ensuring that **saving and viewing outfits** remain intuitive. The decision to refine memberships and offers under user features helps maintain a just and fair platform.
- On the **administrative** side, the focus remains on **user verification, listing moderation and resolving disputes**, ensuring security and trust.
- These adjustments ensure that FitXchange remains efficient, user-friendly, secure and meeting both borrower and lender needs without unnecessary complexity.

# FitXchange

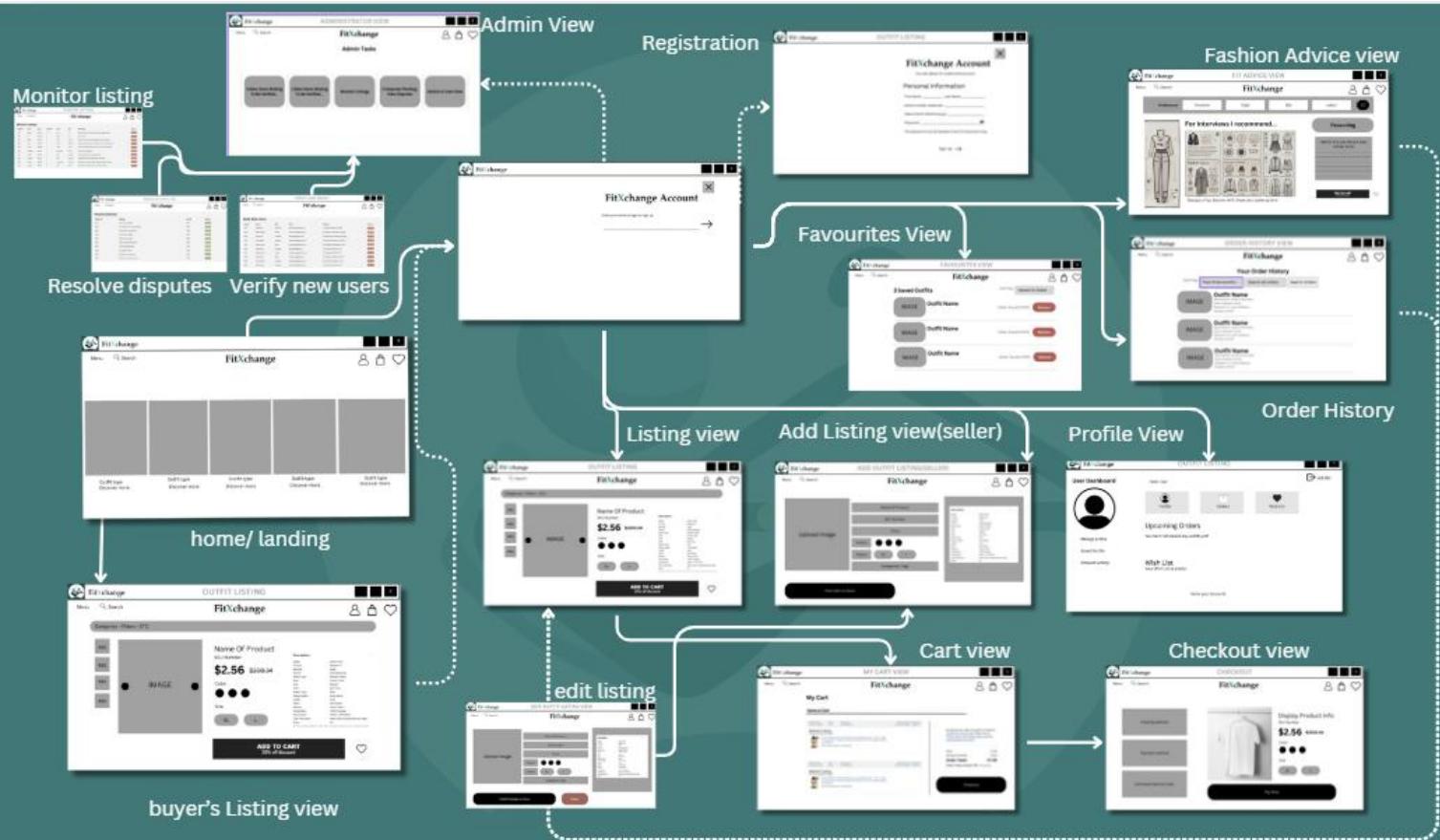


# FitXchange

## Sprint 3 Specifications

### Wireframes

For FitXchange, wireframes were instrumental in visualizing the seamless transition between the roles of buyers and sellers, highlighting dual functionality within a single, cohesive user interface. This approach supports the platform's goal of enabling users to effortlessly switch between buying and selling outfits, enhancing user experience and platform efficiency.



### Development Integration:

- Guidance for UI Development:** The wireframes are our guide to building the front-end code, ensuring that all functional and design requirements are met.
- Iterative Design and Feedback:** Wireframes will be revised based on feedback from usability testing sessions and stakeholder reviews. This iterative process helps refine the interface for better user engagement and functionality.

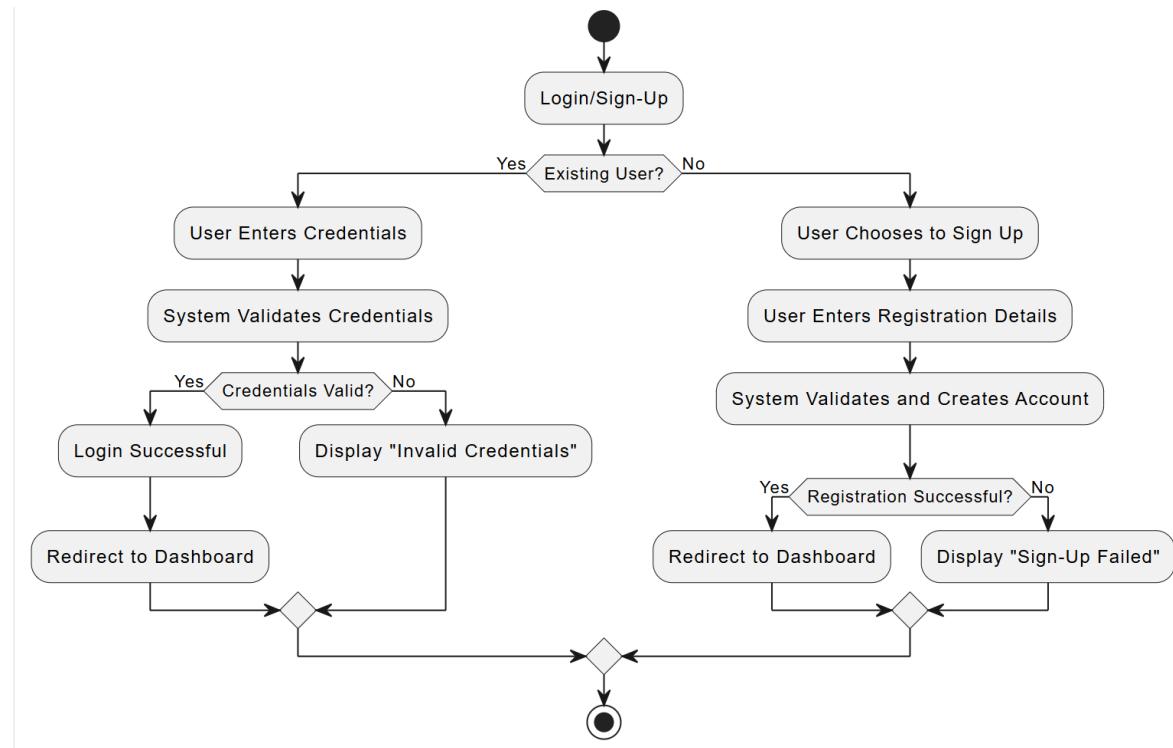


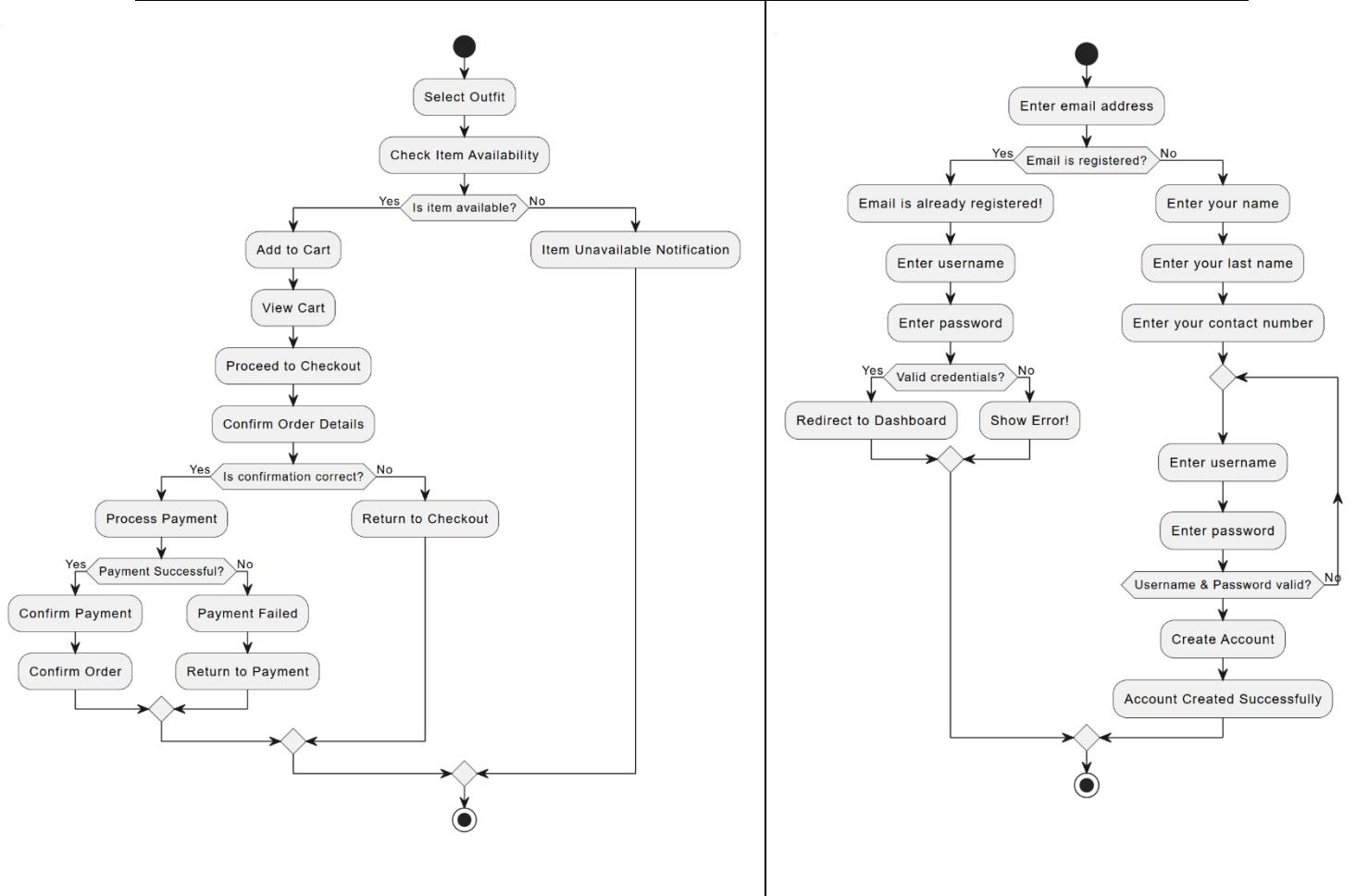
## Activity Diagrams

### Login/Sign up

Login: User enters credentials, system validates, grant access if valid, or display an error if invalid

Sign-up: User enters details, system creates accounts, grants access if successful or displays an error if failed.

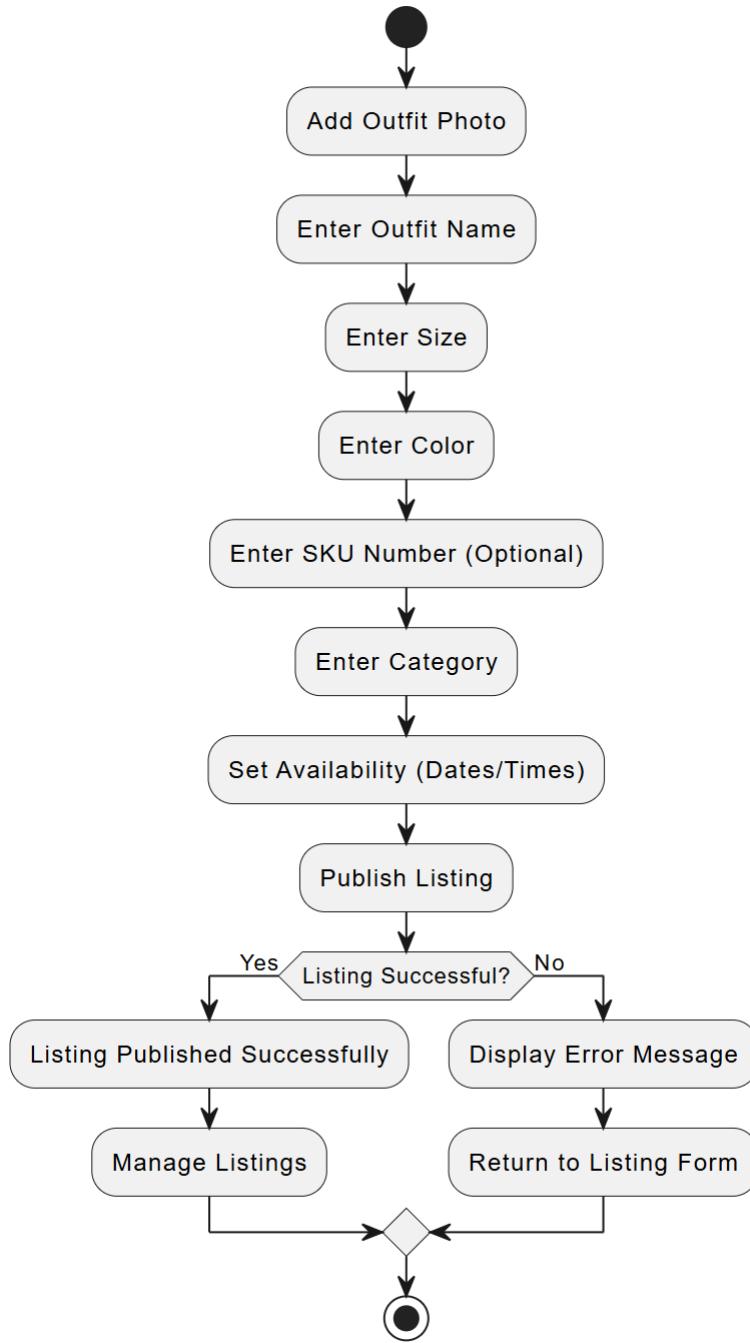




**Lending an Outfit:** This diagram simplifies the process of listing an outfit for lending. It delineates each step, from user authentication to the final listing approval, pinpointing areas where steps can be consolidated or removed to enhance ease of use. This ensures that users can list outfits quickly and without hassle, increasing the likelihood of frequent user participation and interaction.

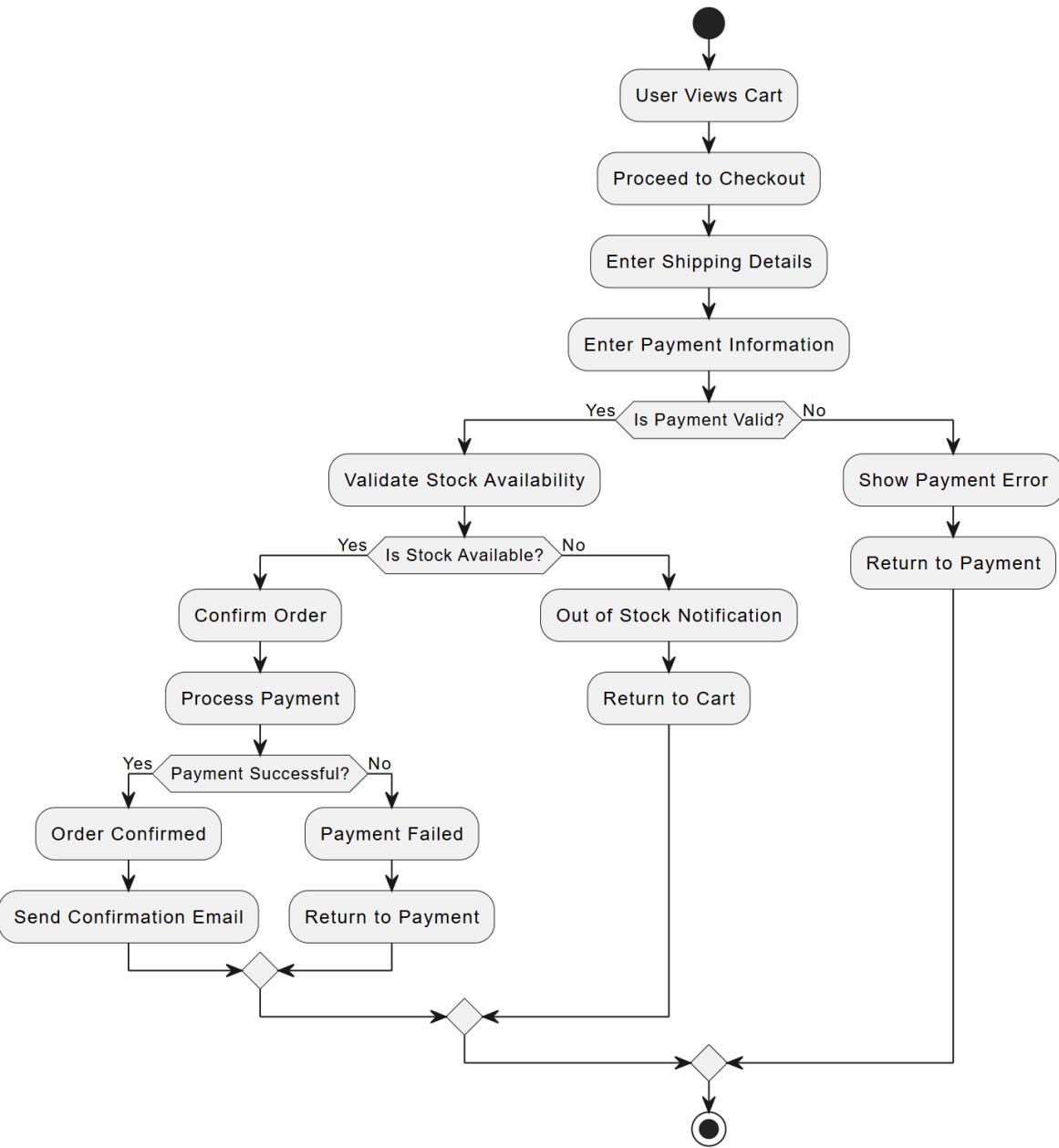
**Creating an Account:** The activity diagram for creating an account highlights the necessary steps a new user must take to successfully register on the platform. By visualizing this process, we can identify and eliminate any redundant steps and ensure that the account creation is as streamlined as possible, reducing barriers to entry and encouraging more user sign-ups.

## LISTING AN OUTFIT



**Purchasing an Outfit:** To list an outfit on the platform, the lender begins by adding a photo, followed by entering details, setting availability, and publishing. The system then handles success or failure scenarios.

## CHECKOUT & PAYMENT

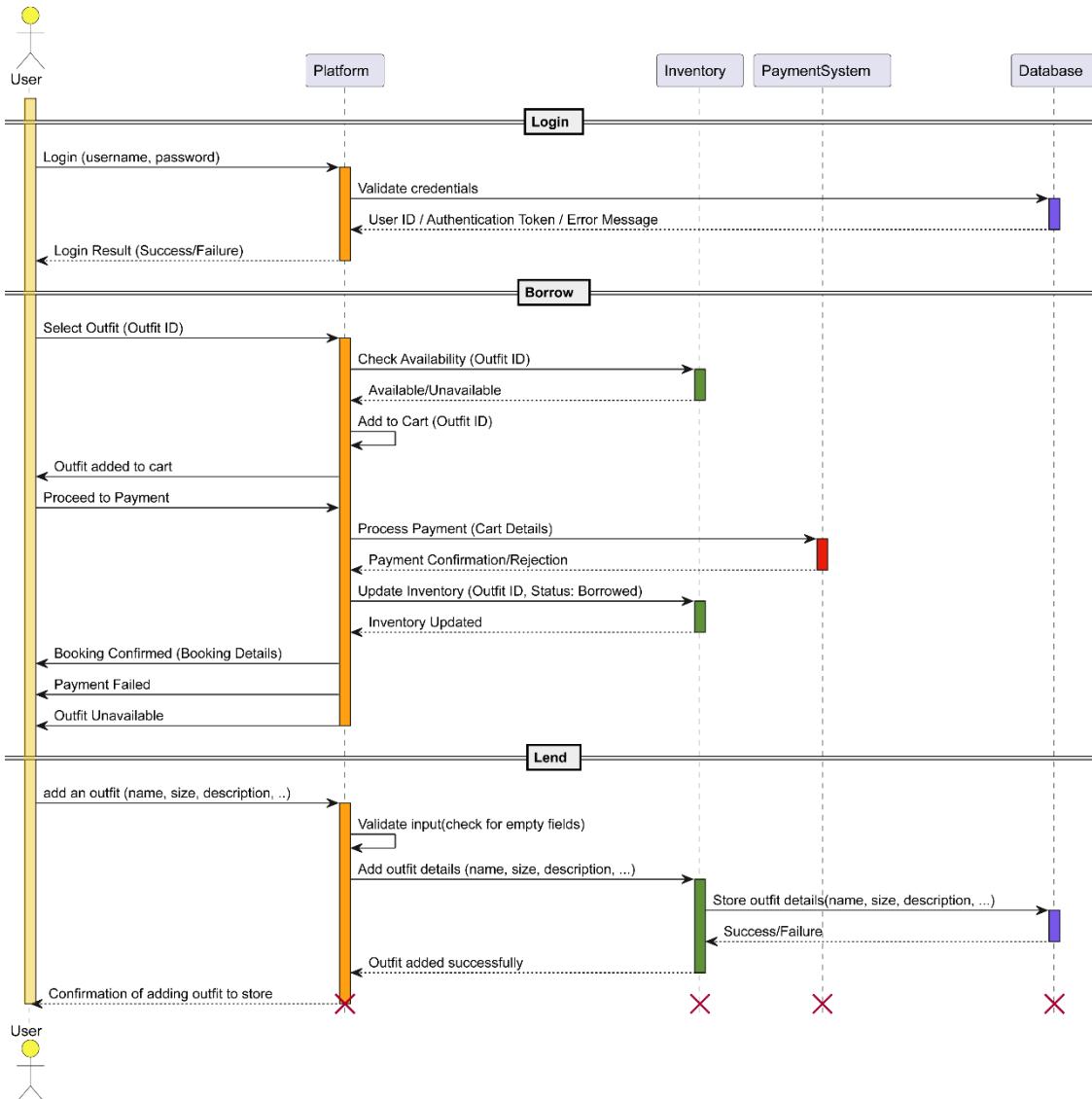


This diagram shows the online checkout process from viewing the cart to order confirmation. It includes steps for entering shipping and payment details, validating payment and stock, processing payment, and handling potential errors like payment failure or stock unavailability.



# FitXchange

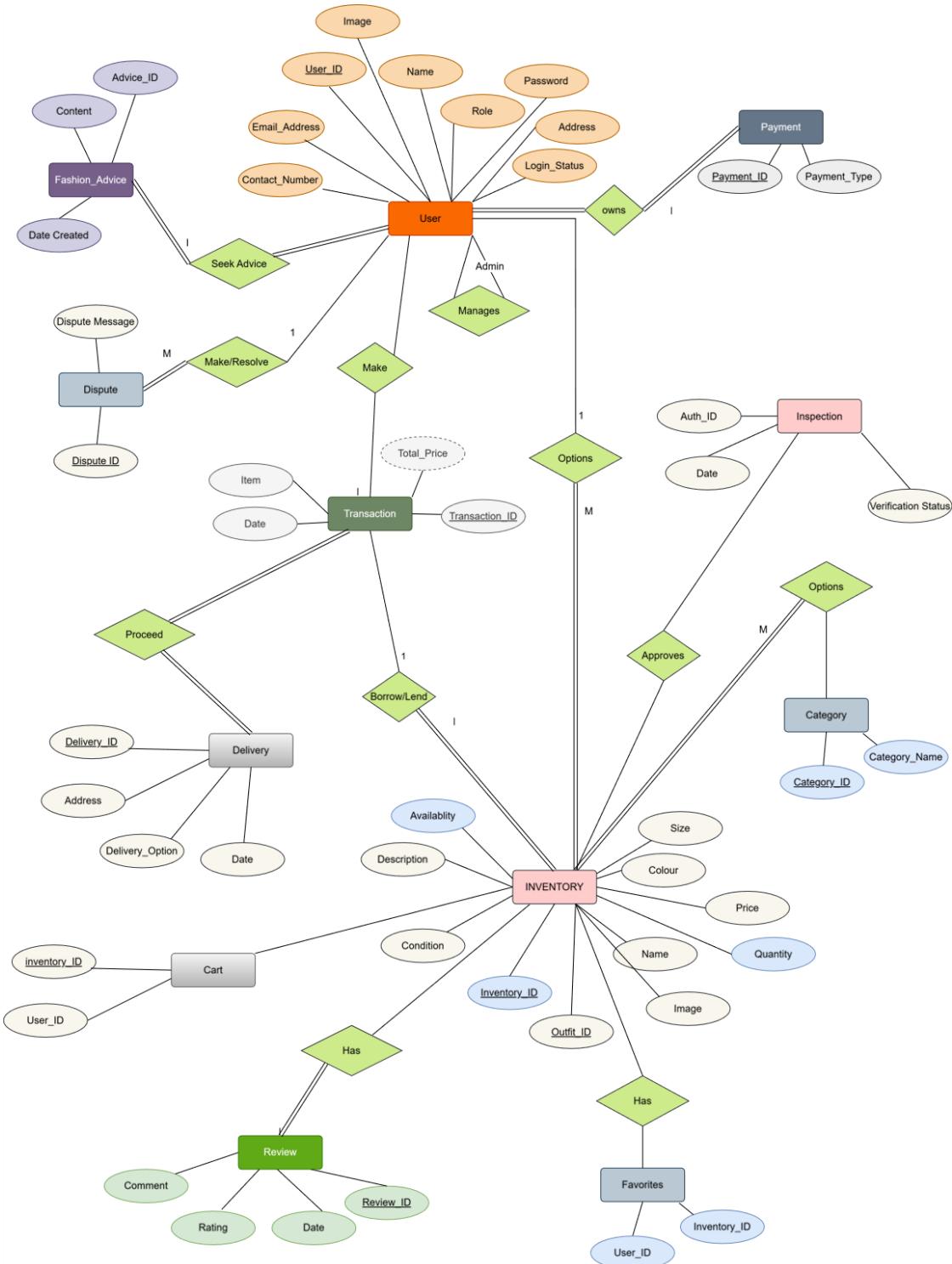
## Sequence Diagram



This diagram effectively visualizes how FitXchange processes unfold over time, detailing the communication between objects and the sequence of events that lead to a completed transaction or action. They are instrumental in identifying and approaching dependencies between system components, ensuring that each step in a user interaction is executed efficiently. Given the nature of our service, where users often rent clothes under time constraints, such as for upcoming events or meetings, it is critical that our system processes requests quickly and reliably. Sequence diagrams help us ensure that our platform meets these user expectations by allowing us to streamline operations and minimize response times. This focus on efficiency is not just a technical requirement but a fundamental aspect of user satisfaction, making the sequence diagram a key tool in our development process to enhance overall user experience.



## Entity Relation Diagram



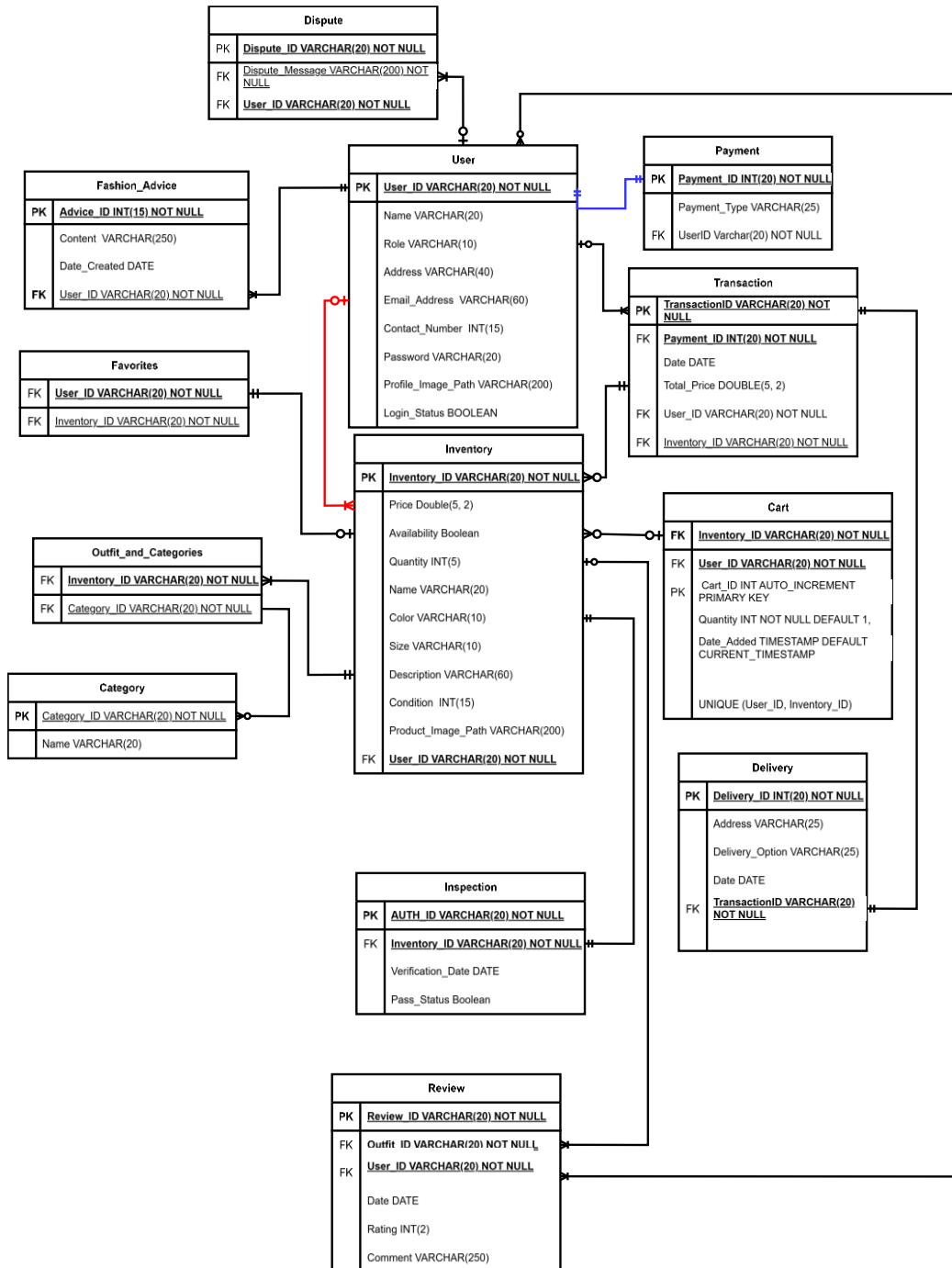
The Entity-Relationship Diagram (ERD) for FitXchange outlines the database schema, ensuring that data is organized and accessed efficiently for optimal performance.

We anticipate that users may frequently engage in time-sensitive rental transactions for events or meetings. Therefore, it is imperative that our database structure facilitates quick and reliable data retrieval.

The ERD plays a pivotal role in optimizing these processes by clearly defining entity relationships, which helps in streamlining database operations and enhancing query performance. This focus on efficient data management is not merely a technicality but a core aspect of user satisfaction, making the ERD a vital tool in our development arsenal to ensure a superior user experience.

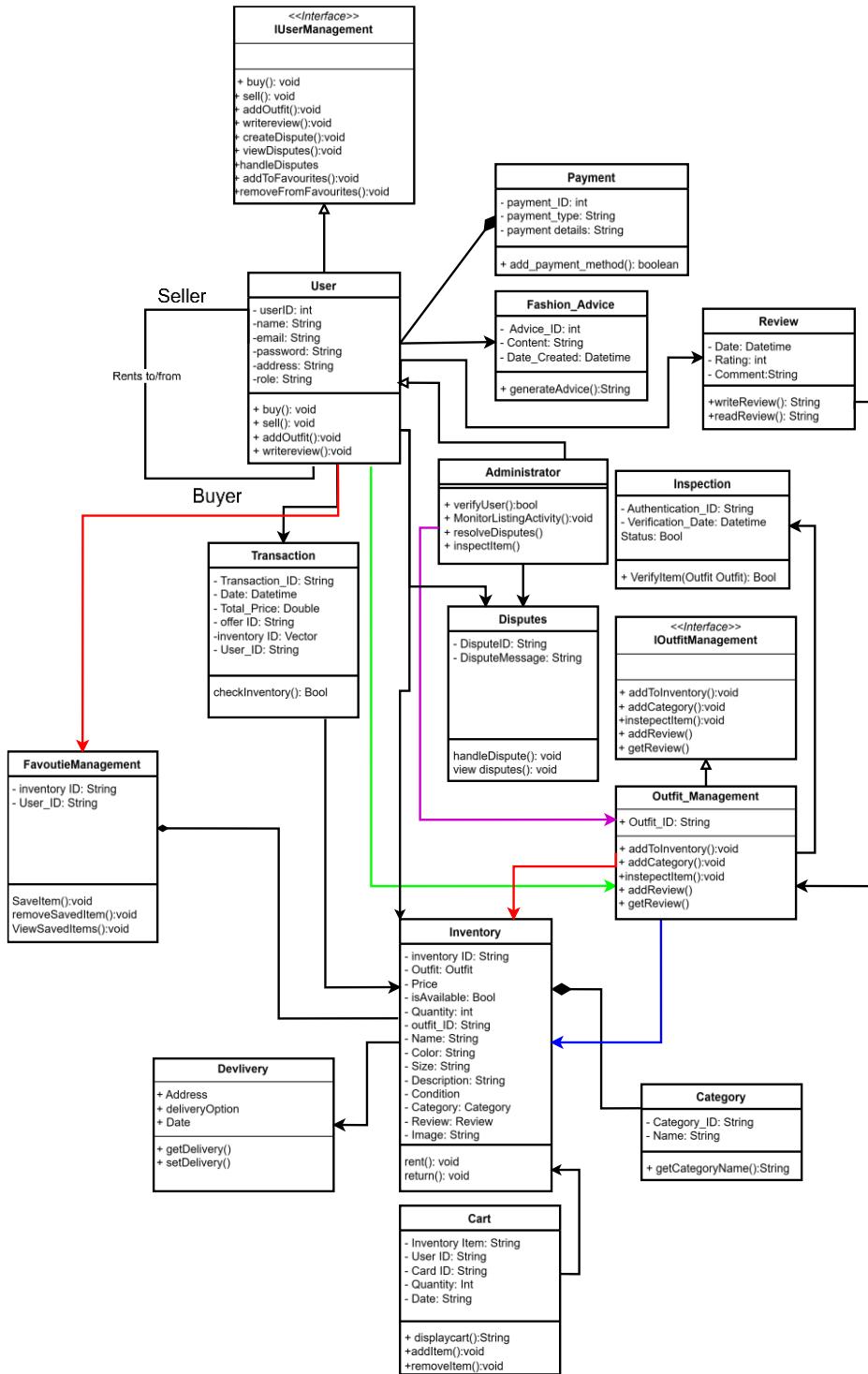


## Physical Data Model





## Class Diagram





## Colour Scheme & Design

**LOGO**

**LOGO**

**Brand Scheme**

#083736	#6BD4D3	#9A5833	#E6EB2
#007A78	#66381F	#EFBC9F	#FFEC29

**INDIVIDUAL FONTS**

**Aa**  
Palantino Bold

**Aa**  
Calibri (MS)

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
a b c d e f g h i j k l m n o p q r s t u v w x y z  
1 2 3 4 5 6 7 8 9 0

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z  
a b c d e f g h i j k l m n o p q r s t u v w x y z  
1 2 3 4 5 6 7 8 9 0



## FitXchange - Team Code of Conduct

### Code Of Conduct

The Code of Conduct for the FitXchange project outlines the standards and expectations for team behaviour to ensure a productive and respectful environment. Adherence to these guidelines is essential for maintaining a collaborative atmosphere and ensuring project success.

#### 1. Respect and Inclusion

- **Respect Ideas:** All team member's ideas and inputs are valuable and must be treated with respect.
- **Inclusive Environment:** The team strives to create an environment that is supportive and inclusive, fostering collaboration among all members.

#### 2. Communication

- **Clarity and Conciseness:** Communication should be clear and concise to avoid misunderstandings and ensure efficient teamwork.
- **Updates and Blockers:** Team members are expected to keep the team informed about their progress on tasks, any blockers they encounter, and delays in their work.

#### 3. Accountability

- **Feedback in Meetings:** Members should regularly provide feedback on their tasks during meetings, detailing their progress and any challenges faced.
- **Addressing Delays:** If there is no progress on a task, the member must explain the reasons and outline the steps they are taking to catch up.
- **Reporting Delays:** Significant delays without a valid reason will be reported and addressed according to project protocols.

#### 4. Meeting Etiquette

- **Punctuality:** Members are expected to be punctual and prepared for all meetings.
- **Consequences for Lateness:** If a member is late, they are responsible for bringing treats to the team as a light-hearted penalty.
- **Absence Policy:**
  - Two unexcused absences will result in a formal warning.
  - Three unexcused absences will be escalated for further action and reported.

**5. Disputes: Reasoning and Discussion:** Members dissatisfied with any decision, such as design features, must provide well-researched reasoning. Disputes should be presented to the team for discussion and resolution.

## **6. Feedback and Conflict Resolution**

- **Constructive Feedback:** Feedback should be actionable and constructive, aiming to improve project outcomes and team performance.

**Conflict Escalation:** Unresolved conflicts should be escalated to the Scrum Master, Hala, or the Product Manager, Niwhar, for mediation and resolution.

A large, semi-transparent watermark of the FitXchange logo is centered on the page. The logo consists of the word "FitXchange" in a bold, sans-serif font. The letter "X" is stylized with a teal gradient and a white outline. A faint, light blue circular graphic is positioned above the letter "i".

**FitXchange**



## FitXchange – Ethical Considerations

Ethical practices in project management are pivotal for ensuring project success, fostering stakeholder confidence, and maintaining integrity.

As project managers navigate complex ethical dilemmas, they must balance conflicting interests while upholding ethical standards to achieve successful outcomes and nurture strong relationships. [1]

This section outlines the ethical issues identified in the FitXchange project, along with proposed solutions to manage these challenges effectively.

### 1. Misrepresentation of Project Status

**Issue:** There is a risk of users uploading misleading images or inaccurate descriptions of outfits, which can lead to user dissatisfaction or disputes.

**Solution:** Promote a culture of honesty and integrity. Empower project managers to provide transparent updates and conduct regular audits to ensure accuracy and address issues promptly. Establish a safe space for reporting concerns to foster trust and informed decision-making. [1]

### 2. Lack of Diversity

**Issue:** The website may fail to adequately cater to the diverse cultural, social, or demographic needs of users, potentially limiting user engagement and representation.

**Solution:** Sensitivity and inclusivity in managing teams and stakeholders from diverse backgrounds are crucial to ensure effective collaboration and project success. [1]

### 3. Data Privacy and Security

**Issue:** Users will provide personal data, including contact and payment information, which could be compromised if not properly secured.

**Solution:** Implement robust data protection measures to prevent unauthorized access and misuse of personal information. [2]

### 4. Conflict of Interest

**Issue:** Team members may show favouritism in allocating resources, leading to unfair access to shared outfits.

**Solution:** Uphold strict ethical project management practices to ensure trust, accountability, and integrity. Avoiding conflicts of interest is essential for project credibility and success. [1][3]

## **5. Health and Safety Concerns**

**Issue:** There is a potential risk of spreading infections or skin conditions through unclean or untreated garments.

**Solution:** Implement standards for hygiene and ensure proper treatment of garments. Raise user awareness to mitigate health and safety risks associated with shared clothing. [4]

## **6. Environmental Concerns**

**Issue:** Renting clothes increases deliveries, travel, and the use of cleaning services, which can significantly impact the environment. [5]

**Solution:** Adopt eco-friendly practices such as using carbon-neutral delivery services or bike couriers and promote sustainable cleaning technologies like wet-washing or ozone treatments. [5]

## **7. Intellectual Property**

**Issue:** Some clothing brands may object to their items being shared without explicit permission. [6]

**Solution:** Ensure that all clothing shared on the platform is authentic and complies with each brand's guidelines. Engage with brands to secure permissions where necessary. [7]



## Sprint 3 Tickets

### Develop Transaction and Rental Process #100

Edit ⌂ ⌂ ⌂ ⌂ ⌂

Open

0 / 11

Evan-Balson/SE-Spring-Project Public

Edits ⌂ ⌂

Evan-Balson opened last week · edited by M12rezaei

Transaction and Rental Process: As a user, I want an effortless rental process, including clear pricing, secure payment, and flexible options, so that my experience is seamless and hassle-free.

Requires:

- Develop the Listing View Pug
- Develop the Cart View pug
- Develop the Checkout Pug
- Develop the Listing view CSS
- Develop the Cart CSS
- Develop the Checkout CSS
- Implement Controller for Listing View
- Implement Controller for Cart
- Implement Controller for Checkout

Return and Delivery instructions underneath the checkout

Assignees	
	M12rezaei
Labels	
No labels	
Projects	
Software Engineering Project	
Status	Done (Sprint3)
Priority	Choose an option
Size	Choose an option
Estimate	Enter number...
Iteration	Choose an iteration
Start Date	Mar 6, 2025
End Date	Mar 8, 2025

### Develop Signup & Login Process #110

Edit ⌂ ⌂ ⌂ ⌂ ⌂

Open

9 / 11

Evan-Balson/SE-Spring-Project Public

Edits ⌂ ⌂

Evan-Balson opened last week · edited by Evan-Balson

Sign-up and Login: As a user of the system, I want to be able to create and log in to my account securely while also being notified of the terms and conditions of the service, so that I can make an account and safely become a functioning member of the platform.

Requires:

- Develop Login Pug
- Develop register Pug
- Develop Login CSS
- Develop register CSS
- Develop Login Controller
- Develop register Controller
- Integrate Controller into user Class
- Develop account PUG
- Develop Account CSS
- Develop Account Controller
- Add Terms and Conditions tag to Sign up page

Assignees	
	Evan-Balson
Labels	
No labels	
Projects	
Software Engineering Project	
Status	Done (Sprint3)
Priority	Choose an option
Size	Choose an option
Estimate	Enter number...
Iteration	Choose an iteration
Start Date	Mar 6, 2025
End Date	Mar 11, 2025

## Develop Administrator View #126

Edit ⌂ ⌂ ⌂ ⌂ ⌂

Open

0 / 4

Evan-Balson/SE-Spring-Project Public



Evan-Balson opened last week · edited by BAK23592238

Edits ⌂ ⌂

User Verification and Security: As an administrator, I want to verify new users/user identities, monitor listings and oversee transactions, so that the platform remains safe, transparent and authentic for all users.

Moderating and Policy Enforcement: As an administrator, I want to effectively manage conflicts and ensure adherence to platform guidelines such as ethical, environmental and intellectual property standards, so that disputes are resolved fairly, and the platforms reputation is maintained.

Requires:

- Develop Administrator Pug
- Develop Administrator CSS
- Develop Controller For administrator
- Implement necessary methods into Administrator class



Sub-issues 0 of 4

Preview

Assignees

BAK23592238

Labels

No labels

Projects

Software Engineering Project

Status Done (Sprint3)

Priority	Choose an option
Size	Choose an option
Estimate	Enter number...
Iteration	Choose an iteration
Start Date	Mar 6, 2025
End Date	Mar 9, 2025

## Develop Browsing & Filtering #95

Edit ⌂ ⌂ ⌂ ⌂ ⌂

Open

0 / 4

Evan-Balson/SE-Spring-Project Public



Evan-Balson opened last week · edited by nino2000

Edits ⌂ ⌂

Browsing and Filtering: As a user seeking professional or special occasion attire, I want to browse and filter a collection of outfits, so that I can quickly identify pieces that match my style and my event needs.

Requires:

- Develop Home Page PUG
- Develop CSS for Home Page
- Controller for home page
- implement filtering mechanism in Inventory



Sub-issues 0 of 4

Preview

Assignees

nino2000

Labels

No labels

Projects

Software Engineering Project

Status Done (Sprint3)

Priority	Choose an option
Size	Choose an option
Estimate	Enter number...
Iteration	Choose an iteration
Start Date	Mar 6, 2025
End Date	Mar 9, 2025

Milestone

No milestone



# FitXchange

## Meeting Minutes

Date & Time	27/03/2025: 7:30PM
Project Name	FitXchange Web App Development
Meeting Goal	<ol style="list-style-type: none"><li>1. Overview of project requirements and current status</li><li>2. Discussion and assignment of upcoming tasks</li><li>3. Resource allocation and timeline adjustments</li><li>4. Any other business</li><li>5. Closure</li></ol>
Facilitator	Evan
Note Taker	Hala
Attendees	Evan, Mahbouba, Hala, Nihwar
Roundtable Updates (each group member to contribute)	<p>Each team member provided updates on their current tasks and preliminary findings.</p> <p><b>Evan (Project Manager):</b></p> <ul style="list-style-type: none"><li>• Confirmed all project tickets for UI improvements are officially closed or in the final polish phase.</li><li>• Emphasized the urgency of completing presentation materials and prepping for the demo.</li><li>• Noted GitHub Actions and Docker CI pipelines are active and passing test coverage.</li><li>• CI/CD infrastructure has been finalized: GitHub Actions (#227): Set up to run automated unit tests on push.</li></ul>

	<ul style="list-style-type: none"> <li>• Listing management update completed:</li> <li>• Add New Listing Page UI (#220): Removed SKU field, added success message tied to Inventory ID, ensured listings default to availability = false.</li> </ul> <p><b>Mahbouba:</b></p> <ul style="list-style-type: none"> <li>• Reported UI inconsistencies in the cart and checkout views; taking ownership to polish and finalize both.</li> <li>• Confirmed she will implement button functionality, SQL integration, and visual enhancements by mid-week. <b>Cart Page (#221):</b> Fix SQL for button actions; ensure item links redirect to listing view.</li> <li>• <b>Checkout Page (#222):</b> Add "Back to Cart" button and polish appearance.</li> </ul> <p><b>Hala &amp; Nihwar:</b></p> <ul style="list-style-type: none"> <li>• Briefly confirmed ongoing QA prep and team syncs for walkthrough review.</li> </ul>
Discussion Points	<p>The team discussed several key issues that could impact project timelines and resource allocation:</p> <ul style="list-style-type: none"> <li>• <b>Resource Allocation:</b> Hala led a discussion on the need for reallocation of resources, proposing shifting some backend resources to frontend development to better meet project deadlines.</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Security Enhancements:</b> Evan brought up the need for integrating more robust security measures in the Signup &amp; Login processes, including multi-factor authentication and encryption.</li> <li>• <b>Testing Phases:</b> Mahbouba suggested scheduling additional testing phases to ensure new features integrate smoothly with existing systems.</li> </ul> <p><b>Presentation Logistics:</b></p> <ul style="list-style-type: none"> <li>• Confirm all presentation meeting logistics (room number, date/time) by <b>Friday, April 4</b>.</li> <li>• Full slide draft in Canva <b>must be completed by today</b>, March 30.</li> <li>• Everyone must access and participate in reviewing and editing the deck.</li> </ul> <p><b>Coding Phase Kickoff:</b></p> <ul style="list-style-type: none"> <li>• Once slides are finalized, development will resume Sunday evening.</li> <li>• Integration and functional regression testing to follow in next sprint.</li> </ul> <p><b>UI Polish Completion:</b></p> <ul style="list-style-type: none"> <li>• Mahbouba will complete functional and aesthetic elements in the Outfit Listing, Cart, and Checkout pages.</li> <li>• Final component visual alignment to be reviewed midweek.</li> </ul>
Actions (list tasks and assign a group member)	<p><b>Nihwar:</b></p> <ul style="list-style-type: none"> <li>• <b>Task:</b> Lead the development of Browsing &amp; Filtering and the Order History Page.</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Objective:</b> Enhance user experience and improve data handling.</li> <li>• <b>Deadline:</b> Next review meeting in 4 days.</li> </ul> <p><b>Hala:</b></p> <ul style="list-style-type: none"> <li>• <b>Task:</b> Oversee the final touches on the Administrator View and ensure integration with User Account Management features.</li> <li>• <b>Objective:</b> Align new developments with security protocols.</li> <li>• <b>Deadline:</b> Ongoing, with updates due next meeting.</li> </ul> <p><b>Mahbouba:</b></p> <ul style="list-style-type: none"> <li>• <b>Task:</b> Coordinate backend integration for the Transaction and Rental Process.</li> <li>• <b>Objective:</b> Ensure smooth operations and user interface interactions.</li> <li>• <b>Deadline:</b> Prior to the testing phase.</li> </ul> <p><b>Evan:</b></p> <ul style="list-style-type: none"> <li>• <b>Task:</b> Review and approve security implementations in Signup &amp; Login processes.</li> <li>• <b>Objective:</b> Enhance user data protection.</li> <li>• <b>Deadline:</b> Completion before the staging deployment.</li> </ul>

Date & Time	2/03/2025: 7:30PM
Project Name	FitXchange Web App Development

Meeting Goal	<ol style="list-style-type: none"> <li>1. Progress review on key tasks</li> <li>2. Address immediate deadlines and debug plans</li> <li>3. Update on documentation and deployment tasks</li> <li>4. Sprint feedback and improvements on project management</li> <li>5. Assigning remaining tasks and final discussions</li> <li>6. Q&amp;A</li> </ol> <p>This meeting prioritized frontend polish, presentation readiness, and confirmed delivery of all visual interface components. All team members agreed to finalize presentation by EOD, March 30, and shift full focus to testing and integrations.</p>
Facilitator	Evan
Note Taker	Hala
Attendees	Evan, Mahbouba, Hala, Nihwar
Roundtable Updates (each group member to contribute)	<p>Nihwar's Update:</p> <p><b>Develop Reusable Redirect Page:</b></p> <ul style="list-style-type: none"> <li>• <b>Objective:</b> Create a flexible redirect page that displays confirmation messages and dynamically routes users after successful actions such as login, logout, or item updates.</li> <li>• <b>Outcome:</b> Nihwar successfully developed a reusable redirect page that accepts input parameters like message content and return route. This component has streamlined the user flow by reducing redundancy across success messages throughout the application, improving both code maintainability and the user experience.</li> </ul> <p>Hala's Updates:</p> <ul style="list-style-type: none"> <li>• <b>Administrator Files + Wireframe:</b> <ul style="list-style-type: none"> <li>◦ <b>Objective:</b> Design and develop administrative interfaces to manage user activities and backend processes.</li> <li>◦ <b>Outcome:</b> Hala has completed wireframes for the administrative dashboard, which provides comprehensive control and monitoring features for backend processes, enhancing the admin's ability to manage the application efficiently.</li> </ul> </li> <li>• <b>User Stories + Cases:</b> <ul style="list-style-type: none"> <li>◦ <b>Objective:</b> Outline user stories and cases to better understand user needs and ensure the application aligns with these requirements.</li> <li>◦ <b>Outcome:</b> Hala has meticulously crafted user stories and cases, which have been instrumental in</li> </ul> </li> </ul>

- defining functional requirements and guiding the development team in feature implementation.
- **Update Kanban Board:**
    - **Objective:** Keep the project management tools up-to-date to reflect the current status of tasks and overall project progress.
    - **Outcome:** Hala has updated the Kanban board, ensuring it accurately displays the tasks being worked on and their progress. This update helps in maintaining clear and transparent communication across the team.
- Evan's Updates:
- **Implement filtering on browse page and order history page: Completed**
  - **Develop Login Pug (#111) and Develop Register Pug (#112):**
    - **Objective:** Create user-friendly and visually appealing login and registration pages.
    - **Outcome:** Evan completed the PUG templates for both login and registration pages, ensuring they are responsive and align with our design guidelines.
  - **Develop Login CSS (#113) and Develop Register CSS (#114):**
    - **Objective:** Style the login and registration pages for better user experience.
    - **Outcome:** Evan applied CSS styling to enhance the visual appeal and usability of these pages, focusing on consistency with the overall design of the application.
  - **Develop Login Controller (#115) and Develop Register Controller (#116):**
    - **Objective:** Implement backend logic for handling user login and registration processes.
    - **Outcome:** Evan developed controllers that efficiently manage user authentication and data validation, ensuring secure user login and registration.
  - **Integrate Controller into User Class (#117):**
    - **Objective:** Seamlessly integrate the authentication controllers with the user class to manage user sessions and states efficiently.
    - **Outcome:** Evan successfully integrated the login and registration controllers with the user class,

	<p>which now handles user sessions and enhances security across the application.</p> <p><b>Plans Moving Forward:</b></p> <ul style="list-style-type: none"> <li>• <b>Update Documentation:</b> Evan plans to update the development documentation to include the new login and registration features, ensuring all team members can easily understand and work with the new codebase.</li> <li>• <b>Code Review and Optimization:</b> Scheduled code reviews with team members to ensure the new modules adhere to our coding standards and perform optimally.</li> <li>• <b>Deployment and Testing:</b> Evan will oversee the initial deployment of these features on a staging environment to conduct thorough testing, ensuring everything operates seamlessly before the final rollout.</li> <li>• <b>Refine ERD and Physical Data Model:</b> Evan will detail the data relationships and structures in the updated ERD and physical data model, ensuring alignment with the current database schema.</li> <li>• <b>Update Class Diagram:</b> The class diagram will be updated to accurately reflect the latest object-oriented structures and relationships used in the application, providing a clear guide for developers.</li> </ul>
	<p><b>Mahbouba's Update:</b></p> <p><b>Tasks and Outcomes:</b></p> <ol style="list-style-type: none"> <li>1. <b>Develop the Listing View Pug:</b> <ul style="list-style-type: none"> <li>○ <b>Objective:</b> Create a user-friendly interface for listing items available for rent or purchase.</li> <li>○ <b>Outcome:</b> Mahbouba developed a responsive Pug template for the listing view, enhancing the ease of navigation and item selection.</li> </ul> </li> <li>2. <b>Develop the Cart View Pug:</b> <ul style="list-style-type: none"> <li>○ <b>Objective:</b> Design an intuitive shopping cart interface that allows users to review items before proceeding to checkout.</li> <li>○ <b>Outcome:</b> She created a cart view that integrates smoothly with the listing view, allowing users to easily add and modify selections.</li> </ul> </li> <li>3. <b>Develop the Checkout Pug:</b> <ul style="list-style-type: none"> <li>○ <b>Objective:</b> Implement a secure and straightforward checkout process.</li> <li>○ <b>Outcome:</b> The checkout interface designed by Mahbouba facilitates a quick, secure, and clear transaction completion process.</li> </ul> </li> <li>4. <b>Develop CSS for Listing, Cart, and Checkout Views:</b></li> </ol>

	<ul style="list-style-type: none"> <li>○ <b>Objective:</b> Ensure that the styling of the listing, cart, and checkout pages is visually appealing and consistent with the rest of the application.</li> <li>○ <b>Outcome:</b> She applied CSS that enhances the user interface's aesthetic and functional appeal, maintaining brand consistency and improving usability.</li> </ul> <p><b>5. Implement Controllers for Listing View, Cart, and Checkout:</b></p> <ul style="list-style-type: none"> <li>○ <b>Objective:</b> Develop backend logic to handle the dynamic aspects of listing, cart management, and checkout operations.</li> <li>○ <b>Outcome:</b> Mahbouba implemented controllers that efficiently manage data flow and interactions, ensuring robust functionality and security during transactions.</li> </ul> <p><b>Additional Features:</b></p> <ul style="list-style-type: none"> <li>• <b>Return and Delivery Instructions:</b> Integrated clear instructions for return and delivery processes beneath the checkout section, adding to user convenience and clarity.</li> </ul>
Discussion Points	<p><b>Mahbouba's Discussion:</b></p> <p>Mahbouba reported on the successful implementation of these tasks, detailing the technical challenges overcome, particularly in synchronizing the frontend interactions with backend processes. She emphasized the importance of security measures implemented throughout the transaction process.</p> <p><b>Nihwar's Discussion:</b></p> <p>During the meeting, Niwhar presented the latest developments in the Browsing &amp; Filtering and Order History functionalities. He discussed the challenges in handling large datasets and ensuring quick response times for the filtering algorithms.</p> <p><b>Hala's Discussion and Plans:</b></p> <p>During the meeting, Hala presented the new administrator wireframes, emphasizing the enhancements in user interface design that aim to facilitate better management and oversight</p>

	<p>of application functionalities. She discussed the integration of feedback from the last review session to improve the design and functionality of the administrative panels.</p> <p><b>Evan's Discussion and Plans:</b></p> <p>Evan provided an overview of the enhancements made to the signup and login pages, focusing on improving the user experience and increasing security measures. He discussed implementing advanced security features such as multi-factor authentication and encryption to protect user password. Evan also covered the integration of backend validation processes that help prevent common security vulnerabilities.</p> <p>Additionally, Evan detailed the challenges encountered while integrating the controllers with the user class, especially around session management and security. He shared insights into the solutions implemented, such as using express-session for managing user sessions in a more secure manner. This integration is pivotal for maintaining a robust security framework within our application.</p> <p>During the meeting, Evan presented the current versions of the ERD, physical data model, and class diagram. He pointed out specific areas that needed updates based on the latest project developments, including changes made to the database schema and new functionalities added to the application. Evan emphasized the importance of these diagrams in maintaining a clear and consistent architectural overview, which aids in both development and troubleshooting.</p>
Actions (list tasks and assign a group member)	<p><b>Action Items for Mahbouba:</b></p> <ul style="list-style-type: none"> <li>• <b>Performance Monitoring:</b> Monitor the performance of the new transaction and rental process, particularly during peak usage times.</li> <li>• <b>Feedback Collection and Implementation:</b> Set up mechanisms to collect and analyze user feedback, and schedule development sprints to implement necessary adjustments.</li> <li>• <b>Optimization and Testing:</b> Focus on further optimizing the user interface and backend processes. Conduct extensive testing to ensure all components function seamlessly together and handle edge cases effectively.</li> <li>• <b>User Feedback Integration:</b> Plan to incorporate user feedback from initial use to refine the functionalities,</li> </ul>

	<p>especially focusing on the checkout and cart management features.</p> <p>Action Items for Evan:</p> <ul style="list-style-type: none"> <li>• <b>Prepare for Deployment:</b> Finalize all preparations for deploying the updated login and registration features.</li> <li>• <b>Host a Code Review Session:</b> Organize a session with Hala, Mahbouba, and Niwhar to go through the new code, ensuring clarity and adherence to best practices.</li> <li>• <b>Update the Project Kanban Board:</b> Reflect the completion of these tasks on the Kanban board and adjust upcoming tasks accordingly.</li> </ul> <p>Further Updates and Action Items:</p> <p><i>Refinement of ERD, Physical Data Model, and Class Diagram:</i></p> <ul style="list-style-type: none"> <li>• <b>Objective:</b> Update the Entity-Relationship Diagram (ERD), Physical Data Model, and Class Diagram to reflect recent changes and enhancements in the database and application architecture.</li> <li>• <b>Outcome:</b> Evan has taken on the responsibility of refining these critical design documents to ensure they accurately represent the data relationships and class structures as the project evolves.</li> <li>• <b>Documentation Update:</b> Update the project documentation to include the revised diagrams, ensuring that all team members have access to the latest project schematics.</li> </ul> <p>Hala's Action Items:</p> <ul style="list-style-type: none"> <li>• <b>Fix Kanban Board Issues:</b> She identified some discrepancies in task statuses on the Kanban board and plans to address these to ensure accurate tracking.</li> <li>• <b>Review SQL Queries and Other Code:</b> Hala will conduct a thorough review of the SQL queries and other backend code to ensure they meet performance expectations and security standards.</li> </ul> <p>Action Items for Niwhar:</p> <ul style="list-style-type: none"> <li>• <b>Conduct Performance Testing:</b> Organize comprehensive testing of the browsing and filtering functionalities to ensure they perform well under different user loads.</li> <li>• <b>User Interface Improvements:</b> Based on user feedback, make necessary adjustments to the Browse &amp; Filtering Page to enhance usability and visual appeal.</li> </ul>
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	<ul style="list-style-type: none"> <li><b>Documentation Update:</b> Update the technical documentation to reflect the new features and any changes made during the development process.</li> </ul>

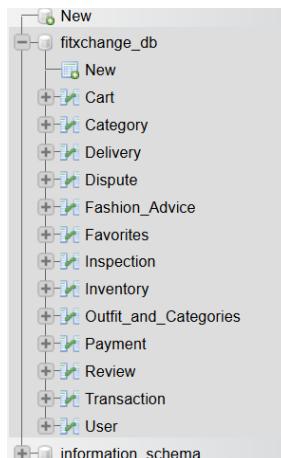
## Attendance Sheet

SEMINAR AND WEEKLY MEETINGS ATTENDANCE SHEET														
SOFTWARE ENGINEERING														
Project Title:	FITXchange			Project Start Date:	1/23/2025			Project End Date:	4/7/2025					
Team Members:	Nivhar Amin Mahbuba Rezaei Evan Balson Hala Bakhtiar			Points System: Total Points = 10  Minus 5 points for each meeting you miss. There's only 2 meetings (seminar and weekly meetings on Sundays)  Minus 2 points if you are late to the meeting.										
Member Roles	Member Names	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Total For Each Person
Team Member	Nivhar Amin	10.00	5.00	5.00	5.00	10.00	5.00	10.00	10.00	10.00	10.00	10.00	10.00	100.00
Team Member	Mahbuba Rezaei	10.00	10.00	5.00	5.00	10.00	5.00	10.00	10.00	10.00	10.00	10.00	10.00	105.00
Product Owner	Evan Balson	10.00	8.00	5.00	5.00	10.00	5.00	10.00	10.00	10.00	10.00	10.00	10.00	103.00
Scrum Master	Hala Bakhtiar	10.00	10.00	5.00	5.00	10.00	5.00	10.00	10.00	10.00	10.00	10.00	8.00	103.00
	Total points:	40.00	33.00	20.00	20.00	40.00	20.00	40.00	40.00	40.00	40.00	40.00	38.00	411.00
FITXCHANGE														
Team signature														



## Database Implementation

Table	Action	Rows	Type	Collation	Size	Overhead
Cart		10	InnoDB	utf8mb4_0900_ai_ci	48.0 KiB	-
Category		10	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
Delivery		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Dispute		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Fashion_Advice		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Favorites		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Inspection		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Inventory		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Outfit_and_Categories		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Payment		10	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
Review		10	InnoDB	utf8mb4_0900_ai_ci	48.0 KiB	-
Transaction		10	InnoDB	utf8mb4_0900_ai_ci	64.0 KiB	-
User		11	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
13 tables	Sum	131	InnoDB	utf8mb4_0900_ai_ci	448.0 KiB	0 B



AUTH_ID	Inventory_ID	Verification_Date	Pass_Status
A001	I001	2023-01-10	1
A002	I002	2023-01-11	0
A003	I003	2023-01-12	1
A004	I004	2023-01-13	1
A005	I005	2023-01-14	1
A006	I006	2023-01-15	1
A007	I007	2023-01-16	1
A008	I008	2023-01-17	1
A009	I009	2023-01-18	1
A010	I010	2023-01-19	1

	User_ID	Name	Role	Address	Email_Address	Contact_Number	Password	Profile_Image_Path	Login_Status
<input type="checkbox"/>	U001	Ella Morris	Customer	12 High St, Oxford, OX1 4DB	ella.morris@outlook.com	447890123456	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U002	Mason Clarke	Admin	58 Queen St, Edinburgh, EH2 3NS	mason.clarke@gmail.com	447890123457	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U003	Ava Taylor	Customer	103 King's Road, Chelsea, SW3 5EQ	ava.taylor@yahoo.com	447890123458	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U004	Oliver Wilson	Customer	2 The Drive, Richmond, TW9 1AE	oliver.wilson@hotmail.com	447890123459	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U005	Sophia Evans	Seller	49 Piccadilly, Manchester, M1 2AP	sophia.evans@icloud.com	447890123450	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U006	Liam Brown	Customer	32 Elm Row, Leith, EH7 4AJ	liam.brown@sky.com	447890123451	password123	..../images/profile.jpg	0
<input type="checkbox"/>	You can also edit most values by double-clicking directly on them.	Isabella Jones	Admin	27 Westgate, Bath, BA1 1EP	isabella.jones@outlook.com	447890123452	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U008	Noah Davis	Seller	144 High St, Guildford, GU1 3HJ	noah.davis@gmail.com	447890123453	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U009	Amelia Green	Customer	88 Church St, Liverpool, L1 3AY	amelia.green@yahoo.com	447890123454	password123	..../images/profile.jpg	0
<input type="checkbox"/>	U010	Jacob Martin	Customer	14 Bond St, Bristol, BS1 3LU	jacob.martin@hotmail.com	447890123455	password123	..../images/profile.jpg	0

## Appendix

### Software Project on Github

Link:

<https://github.com/Evan-Balson/SE-Spring-Project.git>

The screenshot shows the GitHub repository page for 'SE-Spring-Project'. The top navigation bar includes links for Code, Issues (93), Pull requests (2), Actions (1), Projects (1), Security (3), and Insights. The repository name 'SE-Spring-Project' is displayed, along with its status as 'Public'. Below the repository name, there are buttons for Watch (1), Fork (0), and Star (0). The main content area shows a list of commits from user 'M12rezaei'. The commits are as follows:

Commit	Message	Time
M12rezaei	Updated Sequence diagram	b118cf2 - 2 minutes ago
Meetings	my branch	last week
Persona	updating persona	last month
Project Documentation	Updated Sequence diagram	2 minutes ago
Scaffolding-Files	resolved bugs	18 hours ago
virtualEnv	Merge branch 'main' of https://github.com/Evan-Balson/SE-Spring-Project	last month
LICENSE	Initial commit	2 months ago
cover.jpg	preparing read me file	2 months ago
readme.md	Merge pull request #66 from Evan-Balson/Mahbouba	3 weeks ago

On the right side of the page, there are sections for About, Releases, Packages, and Contributors. The 'About' section notes 'No description, website, or topics provided.' The 'Releases' section indicates 'No releases published' and has a link to 'Create a new release'. The 'Packages' section shows 'No packages published' and a link to 'Publish your first package'. The 'Contributors' section lists four contributors.

### Task Board

Link

[Kanban Board · Software Engineering Project](#)

Screenshot

Tasks | Kanban Board | My items | Current iteration | Next iteration | Prioritized backlog | In review | Repository | + New view

Q Filter by keyword or by field | Discard | Save

**In progress** 4

This is actively being worked on

- SDA-Spring-Project #38 Business Concept Model
- SDA-Spring-Project #22 Database
- SDA-Spring-Project #31 Stock Comparison Graphs
- SDA-Spring-Project #30 Graphical Component

+ Add item

**In review** 5

This item is in review

- SDA-Spring-Project #17 Abstract implementation of Architectural components
- SDA-Spring-Project #12 Set Up API For Yahoo Finance and Google Finance
- SDA-Spring-Project #13 Set up Relational Database for the App
- SDA-Spring-Project #25 Notification System
- SDA-Spring-Project #26 Stock Comparison Session

+ Add item

**Done(SPRINT1)** 16

This has been completed

- SDA-Spring-Project #8 Develop Use Case Diagram  
Feb 16, 2025 / Feb 5, 2025
- SDA-Spring-Project #27 Portfolio
- SDA-Spring-Project #18 Personas for the system
- SDA-Spring-Project #10 Set Up GitHub Repository & Project Management  
Jan 29, 2025 / Jan 27, 2025
- SDA-Spring-Project #11 Stock Comparison Session

+ Add item

**Done (SPRINT2)** 5

This has been completed

- SDA-Spring-Project #42 Initial Architecture/Business Interfaces
- SDA-Spring-Project #28 Login/Logout
- SDA-Spring-Project #29 User
- SDA-Spring-Project #40 Business Type Model
- SDA-Spring-Project #37 WireFrames

+ Add item

Software Design & Architecture Project | Increased items preview | Feedback | Add status update | Discard | Save

Tasks | Kanban Board | My items | Current iteration | Next iteration | Prioritized backlog | In review | Repository | + New view

Q Filter by keyword or by field

**Backlog** 2

This item hasn't been started

- SDA-Spring-Project #23 AI Analyser
- SDA-Spring-Project #39 System Interfaces

+ Add item

**Ready** 1

This is ready to be picked up

- SDA-Spring-Project #24 API Service

+ Add item

**In progress** 4

This is actively being worked on

- SDA-Spring-Project #38 Business Concept Model
- SDA-Spring-Project #22 Database
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- SDA-Spring-Project #30 Graphical Component

+ Add item

**In review** 5

This item is in review

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- SDA-Spring-Project #13 Set up Relational Database for the App
- SDA-Spring-Project #25 Notification System
- SDA-Spring-Project #26 Stock Comparison Session

+ Add item

Tasks | Kanban Board | My items | Current iteration | Next iteration | Prioritized backlog | In review | Repository | + New view

Q Filter by keyword or by field | Discard | Save

**In progress** 4

This is actively being worked on

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- SDA-Spring-Project #30 Graphical Component

+ Add item

**In review** 5

This item is in review

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- SDA-Spring-Project #25 Notification System
- SDA-Spring-Project #26 Stock Comparison Session

+ Add item

**Done(SPRINT1)** 16

This has been completed

- SDA-Spring-Project #8 Develop Use Case Diagram  
Feb 16, 2025 / Feb 5, 2025
- SDA-Spring-Project #27 Portfolio
- SDA-Spring-Project #18 Personas for the system
- SDA-Spring-Project #10 Set Up GitHub Repository & Project Management  
Jan 29, 2025 / Jan 27, 2025
- SDA-Spring-Project #11 Stock Comparison Session

+ Add item

**Done (SPRINT2)** 5

This has been completed

- SDA-Spring-Project #42 Initial Architecture/Business Interfaces
- SDA-Spring-Project #28 Login/Logout
- SDA-Spring-Project #29 User
- SDA-Spring-Project #40 Business Type Model
- SDA-Spring-Project #37 WireFrames

+ Add item

## Implemented Wireframes

### Browsing Logged-out View

The screenshot shows the 'BROWSE CATALOGUE' page. At the top, there is a navigation bar with the FitXchange logo, 'Browse Outfits', 'Login', and icons for heart, cart, and search. Below the navigation is a search bar with placeholder text 'Enter maximum charges'. The main content area features four outfit cards:

- Modern Office Blazer**: Price: FREE, Misuse Penalty: £200
- Chic Leather Jacket**: Price: FREE, Misuse Penalty: £320
- Slim Fit Trousers**: Price: FREE, Misuse Penalty: £80
- Classic White Shirt**: Price: FREE, Misuse Penalty: £50

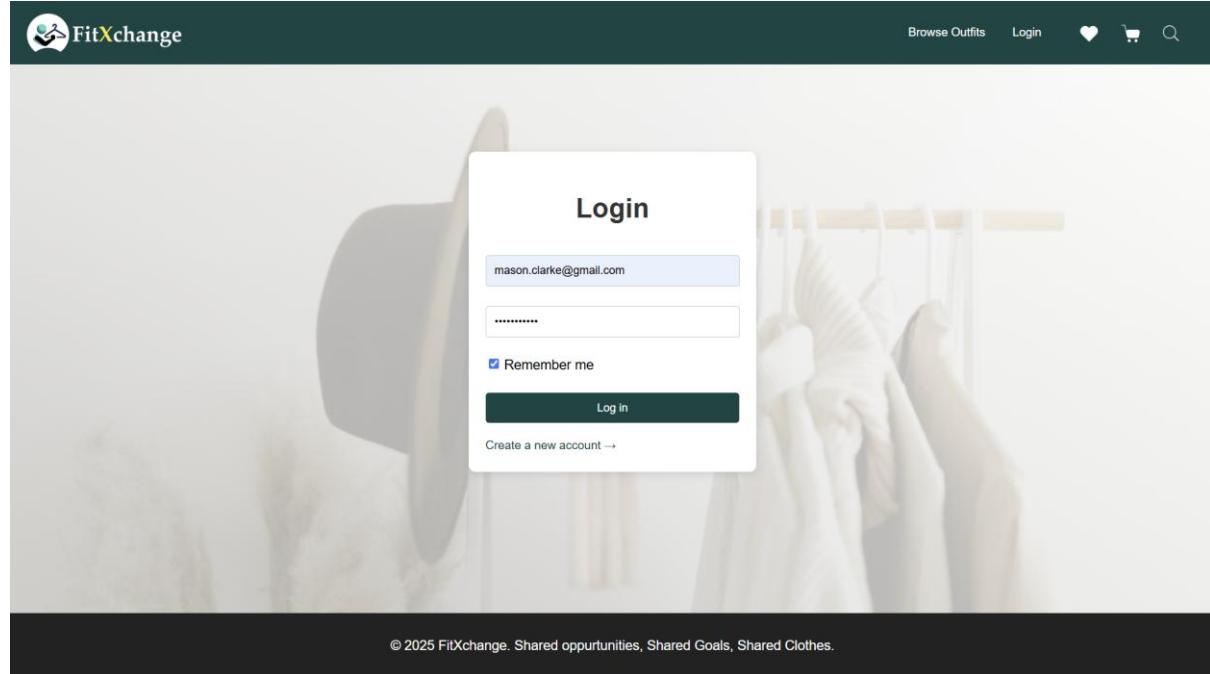
At the bottom of the page is a footer with the text '© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.'

### Browsing Logged-in View

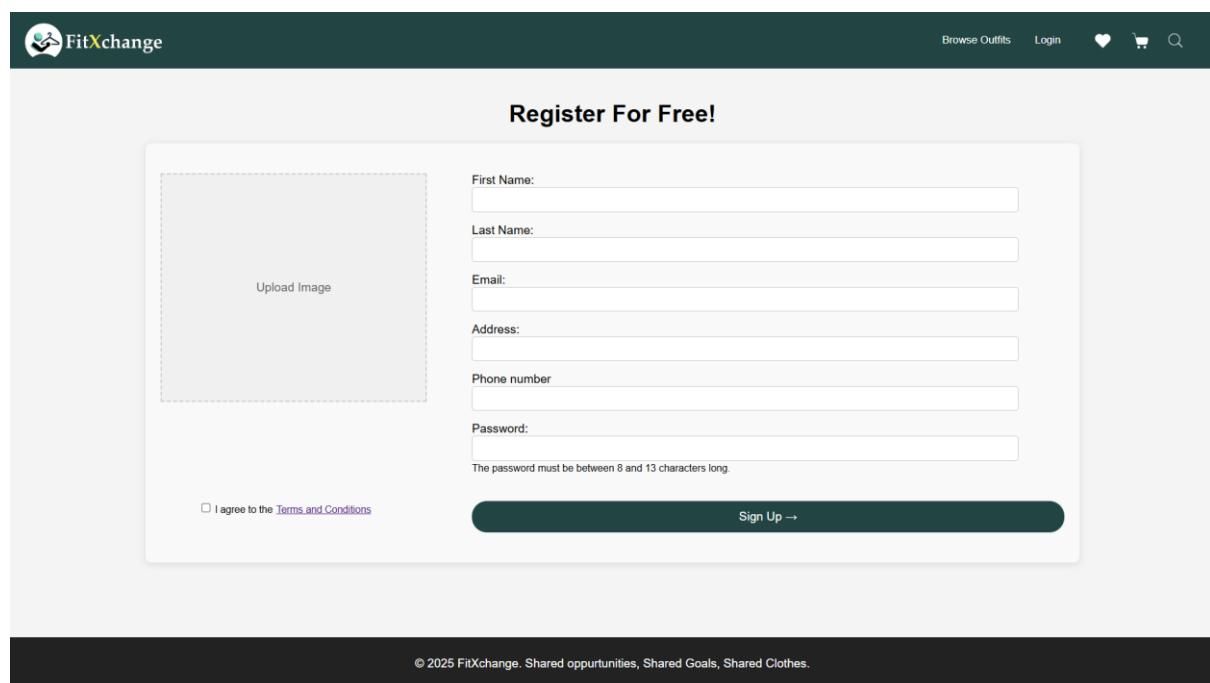
The screenshot shows the 'BROWSE CATALOGUE' page for a logged-in user. The navigation bar includes additional links: 'Outfit Advice', 'List Outfits', 'Order History', 'Account', and 'Log Out'. The rest of the page is identical to the logged-out view, featuring the same outfit cards and footer.

*Login/Sign up View*

Mason.clarke@gmail.com/password123



*Create Account View*




**FitXchange**

[Browse Outfits](#)
[Login](#)
Heart
Cart
Search

### Register For Free!



**First Name:**

**Last Name:**

**Email:**

**Address:**

**Phone number:**

**Password:**

The password must be between 8 and 13 characters long.

I agree to the [Terms and Conditions](#)

Sign Up →

© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.

### Terms and Conditions


**FitXchange**

[Browse Outfits](#)
[Login](#)
Heart
Cart
Search


**FitXchange**

[Terms of use and Conditions](#)

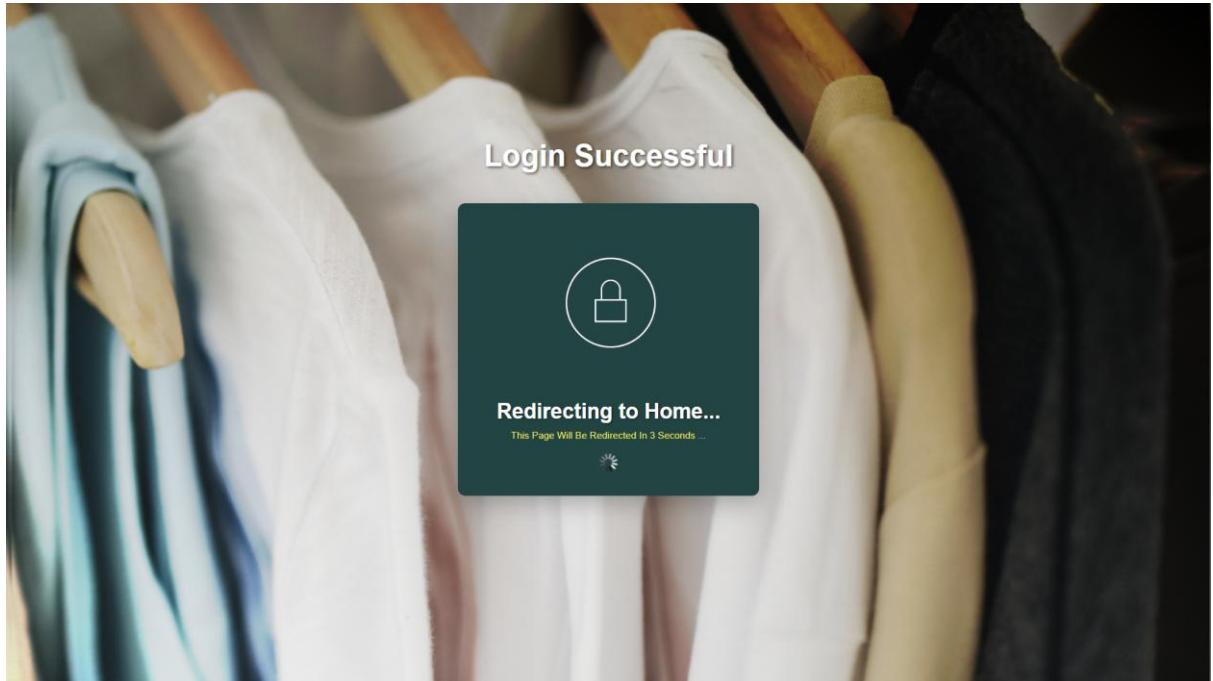
Effective Date: 03/04/2025

Welcome to FitXchange. By accessing our website (the "Site") or using our services, you agree to be bound by these Terms and Conditions ("Terms"). Please read them carefully. If you do not agree to these Terms, you must not use our services.

We are committed to protecting your personal data in accordance with the General Data Protection Regulation (GDPR) Articles 5 and 32. We collect only the information necessary for the provision of our services and take all appropriate security measures to protect your personal data against unauthorized access, alteration, or destruction.

In compliance with Section 3 of the Consumer Rights Act 2015 and Article 6 of the GDPR, we implement rigorous verification and review systems to ensure the authenticity of items exchanged and the reliability of transactions. This safeguards against fraudulent activities and enhances user satisfaction.

*Redirecting view*



*NLP / AI ChatBot*

A screenshot of a web browser showing the FitXchange platform. The top navigation bar includes links for "InPrivate", "FitXchange: Fashion Advice", "localhost:3000/outfit-advice", and account management options like "Browse Outfits", "Outfit Advice", "List Outfits", "Order History", "Account", and "Log Out". The main content area features a chat interface between a user named "Ellian Morris" and a bot. The user asks "hi how are you" and the bot responds with "Hello! I'm here to assist you with anything related to FitXchange. How can I help you today?". The user then asks "what should i wear to a wedding?" and the bot replies with "For a wedding, a formal tailored suit or an elegant dress would be appropriate. Consider accessorizing with a statement tie or elegant jewelry." A text input field at the bottom left says "Say something..." and a blue "Send" button is at the bottom right. The footer of the page contains the copyright notice "© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.".

## User Dashboard & Lender Side Listings


Browse Outfits   Outfit Advice   List Outfits   Order History   Account   Log Out     

**Mason Clarke**  
User ID: U002 | Email: mason.clarke@gmail.com

[Upload Profile Photo](#) [Upload](#)

### Update Your Details

Name

Email

Phone Number

Address

Update Password

[Update Details](#)

### Recent Transactions

**Chic Leather Jacket**  
  
Order Date: Mon Apr 14 2025  
00:00:00 GMT+0000 (Coordinated Universal Time)  
Item Misuse Penalty: £320

**Elegant Pencil Skirt**  
  
Order Date: Sun Mar 05 2023  
00:00:00 GMT+0000 (Coordinated Universal Time)  
Item Misuse Penalty: £120

**Chic Leather Jacket**  
  
Order Date: Thu Mar 02 2023  
00:00:00 GMT+0000 (Coordinated Universal Time)  
Item Misuse Penalty: £320

[See More Transactions](#)

### Wish List

 **Chic Leather Jacket**

[See More Watch List Items](#)

### My Listings

[Add New Outfit](#)

Image	Name	Description	Status	Actions
	Casual Knit Sweater	A casual knit sweater offering a relaxed fit and soft texture, ideal for cool days and laid-back style.	1	<a href="#">Update</a> <a href="#">Remove</a>
	Chic Leather Jacket	A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching.	1	<a href="#">Update</a> <a href="#">Remove</a>
	Elegant High Heels	Elegant high heels meticulously crafted with refined details, providing a perfect balance between striking style and comfort.	1	<a href="#">Update</a> <a href="#">Remove</a>
		An elegant overall outfit with a streamlined design and		

47 | Page

## Update Listing View

The screenshot shows the 'Update Listing' interface for item I005. The main title is 'Update Listing: I005'. The product details are as follows:

- Name of Product: Cable Knit Turtleneck Sweater Dress
- Price: £20
- Colors: Red, Blue, Green, Yellow, Black, White, Pink, Purple, Orange, Grey (with Red selected)
- Size: XS, S, M, L, XL, XXL, XXXL (with S selected)
- Quantity: 10
- Condition Level: 10
- Categories / Tags: Enter categories separated by a comma
- More Description: Cozy mid-length cable knit sweater dress with a high turtleneck, perfect for layering under a long coat.

At the bottom right is a green 'Update Listing' button. The footer of the page includes the copyright notice '© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.'

## Outfit Listing View Logged-in View

The screenshot shows the outfit listing view for item I001. The product details are as follows:

- Modern Office Blazer**
- I001**
- Price: FREE**  
Misuse Penalty £200
- A tailored modern office blazer perfect for formal settings with a structured silhouette and fine fabric.
- Rating: ★★★★☆**  
Seller Rating: 5.0 out of 5 (based on 1 reviews)
- Size:** M
- Color:** Navy
- Condition Level:** 10/10
- Availability:** In Stock
- Quantity Available:** 15

At the bottom right are 'Add to Cart' and 'Add to Favorites' buttons. The footer of the page includes the copyright notice '© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.'

## Outfit Listing Logged-out View

The screenshot shows a product listing for a "Modern Office Blazer". The main image displays a person wearing a beige blazer over a dark top, blue jeans, black socks, and leopard-print flats, sitting on some steps. Below the main image are three smaller thumbnail images of the same outfit from different angles. To the right of the image is a product card with the following details:

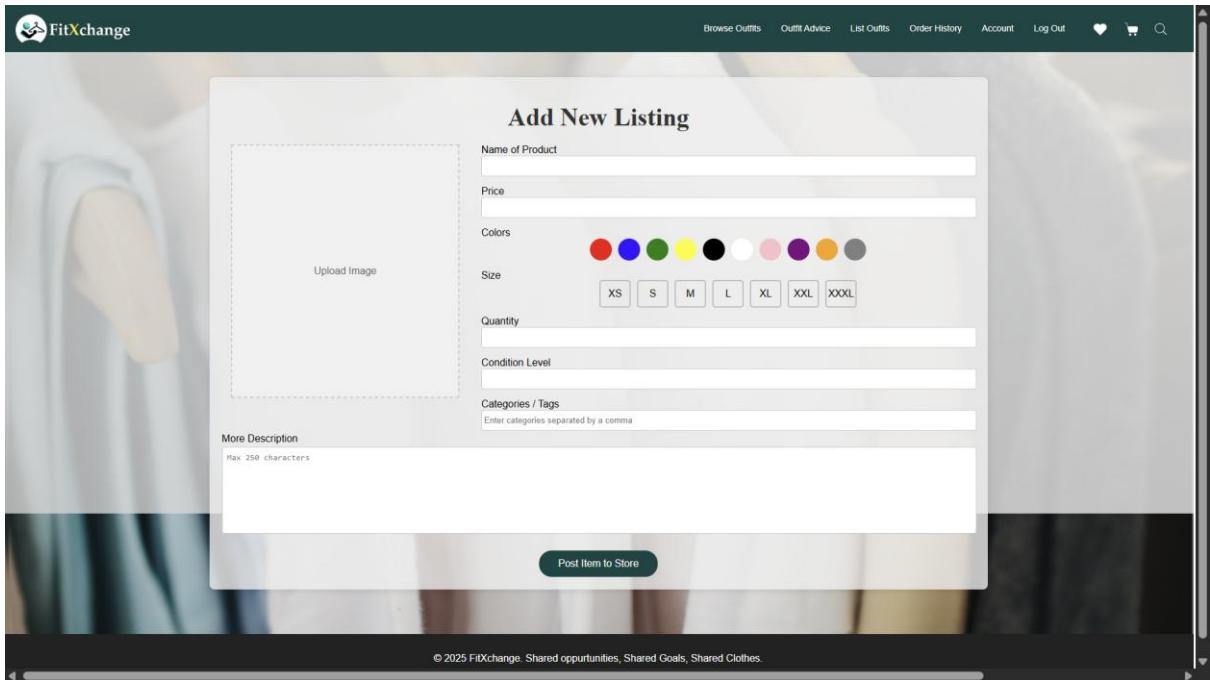
**Modern Office Blazer**  
I001  
Price: FREE  
Misuse Penalty £200  
A tailored modern office blazer perfect for formal settings with a structured silhouette and fine fabric.  
★★★★★  
Seller Rating: 5.0 out of 5 (based on 1 reviews)  
Size: M  
Color: Navy  
Condition Level: 10/10  
Availability: In Stock  
Quantity Available: 15  
[Login to Manage Cart or Favourites](#)

At the bottom of the page, a dark footer bar contains the text: © 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.

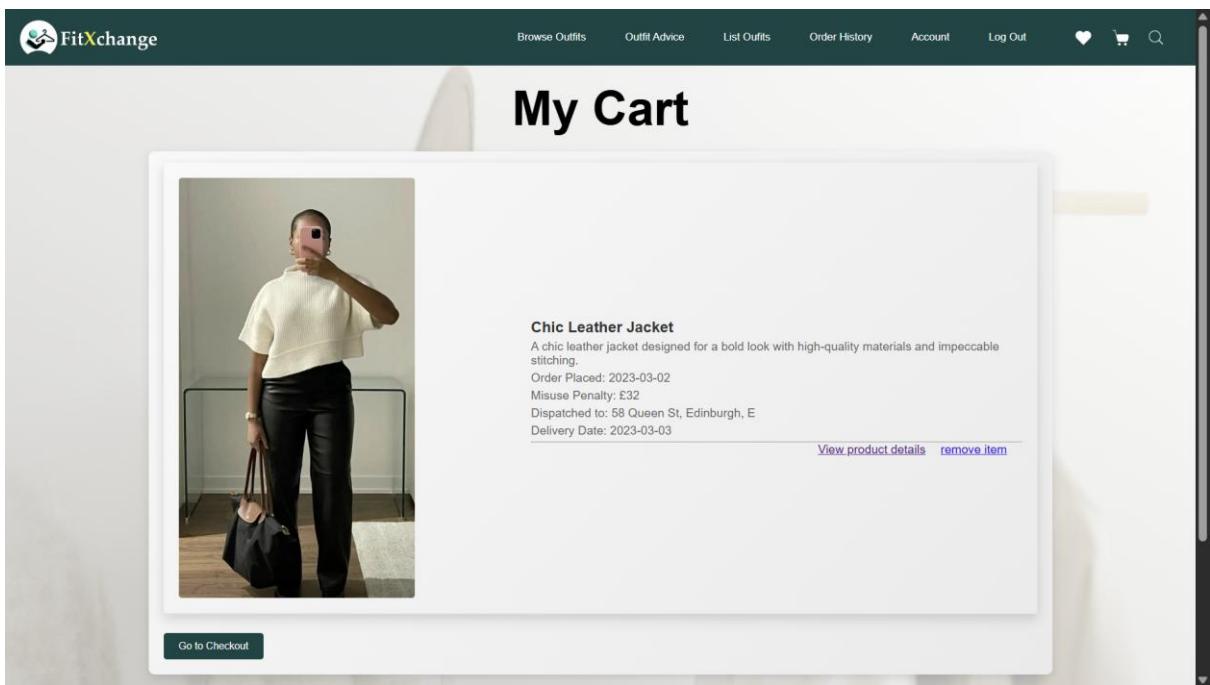
## Outfit Listing Logged-in View (If the viewer owns this listing)

The screenshot shows the same outfit listing for a "Modern Office Blazer" as the previous view, but with a different status. The main image and product card are identical to the logged-out view. However, the footer of the product card now includes the message: "This item is listed by you and cannot be added to cart or favourites." and a link "[← Return to Browse](#)". The rest of the page structure and navigation links at the top remain the same as the logged-out view.

## Add Outfit Listing View



## My Cart View



## Checkout View

The screenshot shows the FitXchange checkout process. At the top, there's a navigation bar with links for 'Browse Outfits', 'Outfit Advice', 'List Outfits', 'Order History', 'Account', and 'Log Out'. There are also icons for a heart, a shopping cart, and a search function. The main content area is titled 'My Checkout' and features a product image of a person wearing a white blouse and black pants. Below the image, the product is identified as a 'Chic Leather Jacket' with a detailed description: 'A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching.' It also lists quantity (1), misuse penalty (32), order date (2023-03-02), delivery date (2023-03-03), and dispatch location (58 Queen St, Edinburgh, E). A note at the bottom states: 'By clicking "Agree and Collect", you accept the terms and potential penalties associated with the items. See Terms and Conditions'. Below this are two buttons: 'Return to Cart' and a dark green 'Agree and Collect' button.

## Order History View

The screenshot shows the FitXchange order history page. The top navigation bar is identical to the checkout page. The main content area is titled 'Your Order History'. It includes a search bar with 'Sort by: All' and a dropdown, and a 'Search Orders' button. Two order items are listed in boxes: 1. 'Elegant Pencil Skirt' - Description: An elegant pencil skirt with a streamlined design and refined fit, perfect for professional environments. Date Ordered: Sun Mar 05 2023 00:00:00 GMT+0000 (Coordinated Universal Time). Dispatch To: 58 Queen St, Edinburgh, E. Penalty: £120.00. 2. 'Chic Leather Jacket' - Description: A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching. Date Ordered: Thu Mar 02 2023 00:00:00 GMT+0000 (Coordinated Universal Time). Dispatch To: 58 Queen St, Edinburgh, E. Penalty: £320.00. Each item has a small thumbnail image and a five-star rating icon below it. A footer at the bottom of the page reads: '© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.'

## Favorites View

 FitXchange

Browse Outfits   Outfit Advice   List Outfits   Order History   Account   Log Out     

You have 1 Saved Outfits

Go



**Chic Leather Jacket**

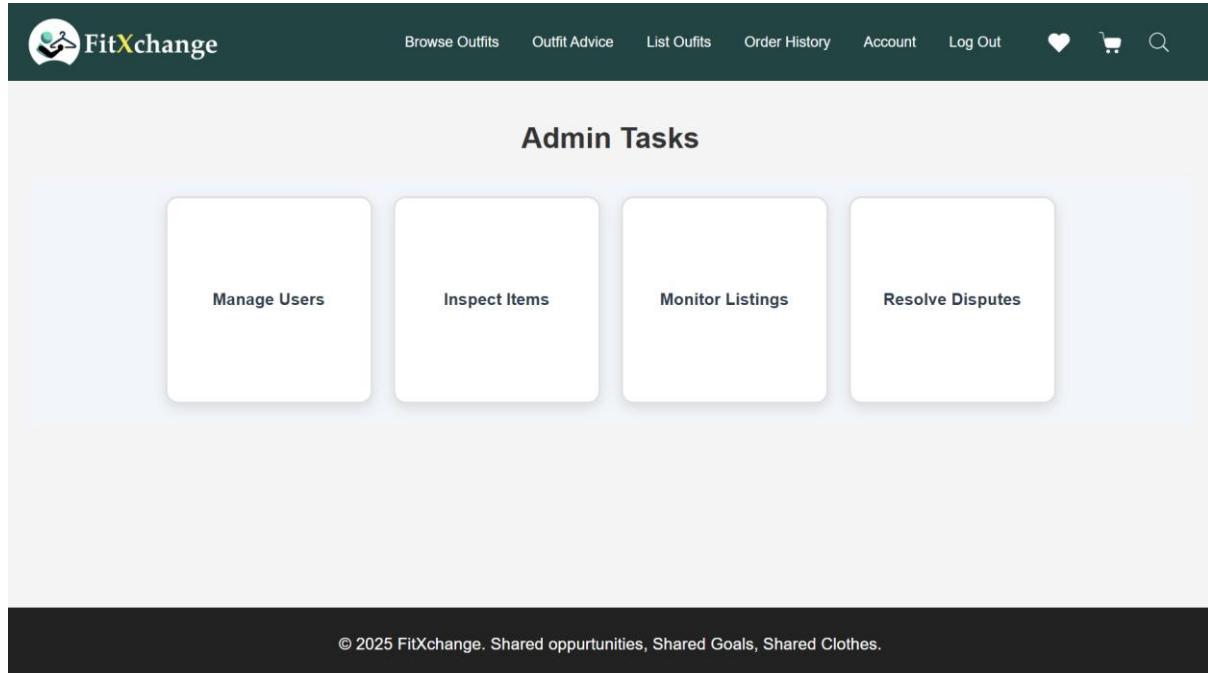
Date saved: 2023-03-16

A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching.

[Remove](#)

© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.

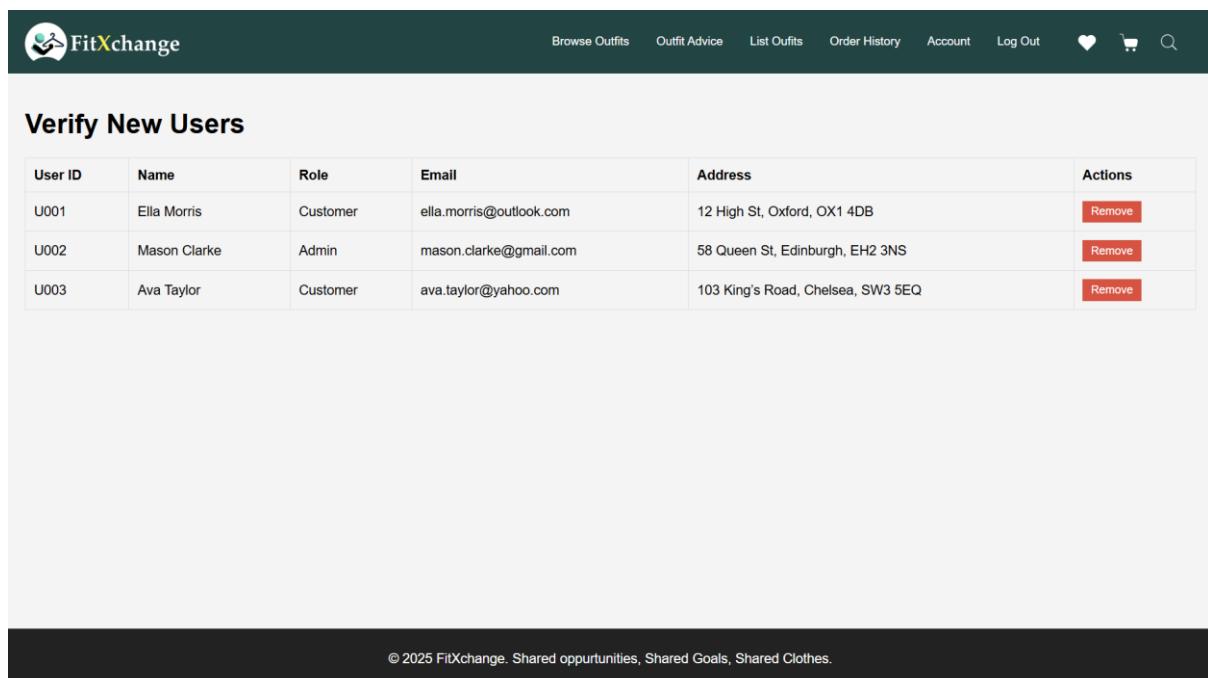
## Administrator View



The screenshot shows the FitXchange administrator interface. At the top, there's a dark green header bar with the FitXchange logo on the left and navigation links like 'Browse Outfits', 'Outfit Advice', 'List Outfits', 'Order History', 'Account', and 'Log Out' on the right, along with icons for a heart, a shopping cart, and a search function.

The main content area has a light gray background and features a title 'Admin Tasks' centered at the top. Below it are four white rectangular boxes arranged horizontally, each containing a task name: 'Manage Users', 'Inspect Items', 'Monitor Listings', and 'Resolve Disputes'. At the bottom of the page is a dark footer bar with the copyright text '© 2025 FitXchange. Shared opportunities, Shared Goals, Shared Clothes.' in white.

## Manage Users View



This screenshot shows the 'Manage Users' view within the FitXchange application. It follows a similar dark header and footer structure to the previous screen.

The main content is titled 'Verify New Users' and displays a table of user information. The table has columns for User ID, Name, Role, Email, Address, and Actions. There are three rows of data:

User ID	Name	Role	Email	Address	Actions
U001	Ella Morris	Customer	ella.morris@outlook.com	12 High St, Oxford, OX1 4DB	<button>Remove</button>
U002	Mason Clarke	Admin	mason.clarke@gmail.com	58 Queen St, Edinburgh, EH2 3NS	<button>Remove</button>
U003	Ava Taylor	Customer	ava.taylor@yahoo.com	103 King's Road, Chelsea, SW3 5EQ	<button>Remove</button>

The footer contains the same copyright text as the previous screen.

## Inspect Items View

**FitXchange**

Browse Outfits Outfit Advice List Outfits Order History Account Log Out   

### Inspect Items

Name	Price	Quantity	Color	Size	Description	Image	Actions
Chic Leather Jacket	\$320.00	7	Black	L	A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching.		<button>Approve</button> <button>Reject</button>
Classic White Shirt	\$50.00	25	White	M	A timeless classic white shirt crafted from premium cotton for a crisp and elegant appearance.		<button>Approve</button> <button>Reject</button>

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## Monitor Listings View

**FitXchange**

Browse Outfits Outfit Advice List Outfits Order History Account Log Out   

### Monitor Listings

Outfit ID	Name	Price	Quantity	Color	Size	Description	Actions
I001	Modern Office Blazer	\$200.00	15	Navy	M	A tailored modern office blazer perfect for formal settings with a structured silhouette and fine fabric.	<button>Remove</button>
I002	Chic Leather Jacket	\$320.00	7	Black	L	A chic leather jacket designed for a bold look with high-quality materials and impeccable stitching.	<button>Remove</button>
I003	Slim Fit Trousers	\$80.00	20	Grey	32	Stylish slim fit trousers offering a sharp look and comfortable wear, ideal for both office and leisure.	<button>Remove</button>
I004	Classic White Shirt	\$50.00	25	White	M	A timeless classic white shirt crafted from premium cotton for a crisp and elegant appearance.	<button>Remove</button>
I005	Elegant Pencil Skirt	\$120.00	10	Black	S	An elegant pencil skirt with a streamlined design and refined fit, perfect for professional environments.	<button>Remove</button>
I006	Designer Denim Jeans	\$150.00	15	Indigo	32	Designer denim jeans featuring a modern cut and durable fabric, blending style with exceptional comfort.	<button>Remove</button>
I007	Luxury Wool Overcoat	\$400.00	5	Camel	L	A luxury wool overcoat providing exceptional warmth and sophisticated style with fine wool blends.	<button>Remove</button>
I008	Casual Knit Sweater	\$70.00	18	Navy	M	A casual knit sweater offering a relaxed fit and soft texture, ideal for cool days and laid-back style.	<button>Remove</button>
I009	Versatile Oxford Shoe	\$110.00	12	Brown	9	Versatile Oxford shoes that combine classic design with modern comfort for various occasions.	<button>Remove</button>
I010	Trendy Aviator Sunglasses	\$90.00	30	Gold	One Size	Trendy aviator sunglasses with a sleek design and UV protection, adding a stylish edge to any look.	<button>Remove</button>
I011	Stylish Silk Blouse	\$150.00	12	Ivory	M	A luxurious silk blouse featuring a subtle sheen and delicate drape, perfect for an elegantly refined look.	<button>Remove</button>
I012	Tailored Midi Skirt	\$130.00	10	Black	S	A refined midi skirt with precise tailoring and a flattering cut, offering a polished silhouette for any occasion.	<button>Remove</button>
I013	Modern Casual Sneakers	\$100.00	20	White	9	Contemporary sneakers that blend comfort with urban style, designed with cushioned soles and durable materials for daily wear.	<button>Remove</button>
I014	Vintage Denim Jacket	\$200.00	7	Blue	L	A vintage denim jacket combining classic appeal with rugged charm, ideal for versatile styling and an effortlessly cool vibe.	<button>Remove</button>
I015	Elegant High Heels	\$250.00	8	Red	7	Elegant high heels meticulously crafted with refined details, providing a perfect balance between striking style and comfort.	<button>Remove</button>
I016	Casual Cotton T-Shirt	\$40.00	25	White	M	A comfortable cotton T-shirt with a relaxed fit and vibrant print, ideal for everyday casual style.	<button>Remove</button>

## Resolve Disputes View

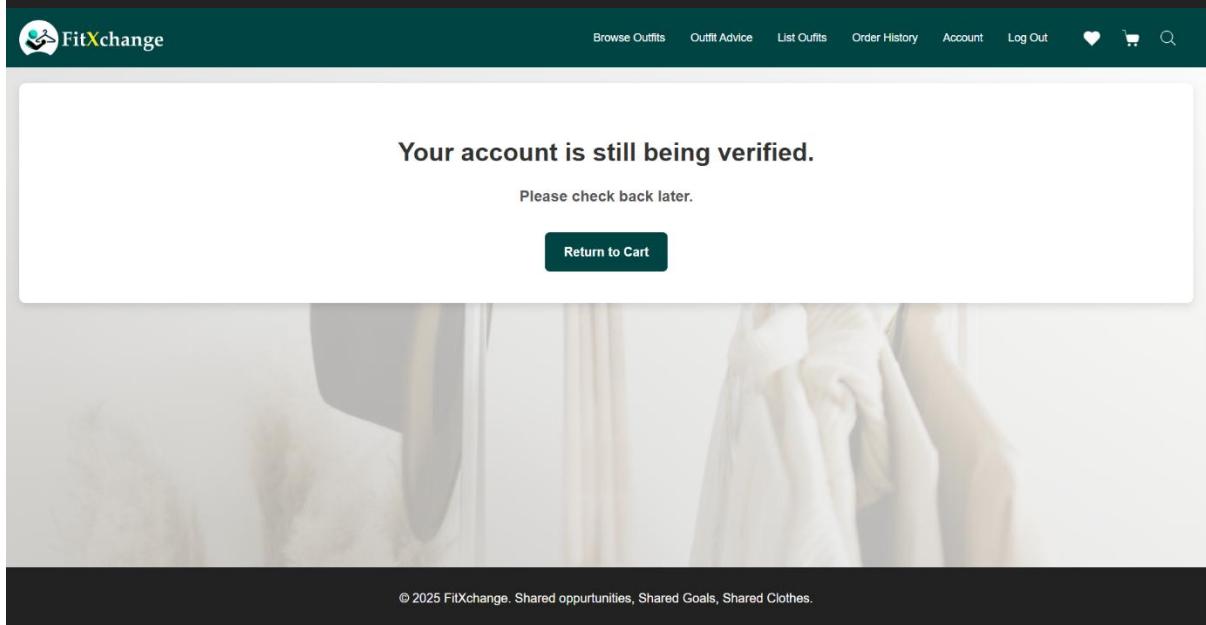


The header navigation bar for FitXchange. It includes the logo, 'FitXchange' text, and links for 'Browse Outfits', 'Outfit Advice', 'List Outfits', 'Order History', 'Account', 'Log Out', and search icons.

### Resolve Disputes

Dispute ID	Message	User ID	Actions
D001	Item did not meet expectations upon delivery.	U001	<button>Resolve</button>
D002	Delivery was delayed and packaging was poor.	U002	<button>Resolve</button>
D003	Received a defective product that needs replacement.	U003	<button>Resolve</button>

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The account verification page for FitXchange. It features a central message: 'Your account is still being verified.' Below it, a smaller message says 'Please check back later.' A 'Return to Cart' button is present. The background shows a blurred image of clothing items.

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## CI/CD Workflows

The screenshot shows two views of the GitHub Actions interface for a repository named "SE-Spring-Project".

**Top View: Workflow Run Details**

This view displays a single workflow run titled "Manual workflow for docker #27". The run was manually triggered 1 minute ago by user "BAK23592238" on branch "master". The status is "Success" with a total duration of 10s. The workflow file is "manual\_docker.yml" and contains a single job named "greet" which completed successfully in 7s.

**Bottom View: All Workflow Runs**

This view lists all workflow runs for the "Manual workflow for docker" action. There are 58 workflow runs shown, all triggered manually by the user "BAK23592238" on the "master" branch. Each run is listed with its status (Success), timestamp (13 minutes ago), and duration (e.g., 10s, 11s, 11s, 15s, 12s).

Run ID	Triggered By	Branch	Status	Event	Timestamp	Duration
Manual workflow for docker #27	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	10s
Manual workflow for docker #26	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	11s
Manual workflow for docker #25	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	11s
Manual workflow for docker #24	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	15s
Manual workflow for docker #23	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	12s
Manual workflow for docker #22	BAK23592238	master	Success	Manually run by BAK23592238	13 minutes ago	10s

## Quick Overview of page functionality:

VIEW (FOLDER)	WHAT IT DOES	NOTABLE / SPECIAL BITS
ADMIN/INSPECT-ITEMS.PUG	Back-office queue where admins approve or reject newly uploaded inventory before it appears on the site.	Shows item thumbnails + metadata, colour-codes pass/fail buttons, hits an /admin/inspect route via fetch() to store the decision without page refresh.
ADMIN/MONITOR-LISTINGS.PUG	Dashboard listing every active outfit so staff can disable, feature, or edit a record.	Live search bar built with vanilla JS, lazy-loads rows to avoid huge table rendering.
ADMIN/RESOLVE-DISPUTES.PUG	Ticket board for refund / damage claims.	Inline chat-style thread per dispute; calls a small "mark-resolved" AJAX endpoint.
ADMIN/VERIFY-NEW-USERS.PUG	KYC-style queue for manual user verification.	Displays uploaded ID images via , and writes the verification date back to the User table.
CHATBOT/CHATBOT.PUG	The in-browser chat interface for our OpenAI+NLP bot.	Scrollable history pane, avatar bubbles, and dynamic "card" insert when the bot returns outfit IDs; uses /chat POST endpoint.
ACCOUNT.PUG	Logged-in user's profile (name, address, saved cards).	Allows image-upload preview with <b>multer</b> ; toggles edit mode via client JS.
ADMIN.PUG	Landing page that links to each admin tool above.	Tiles are rendered from an array so adding new modules is one-liner.
AWAITING-ENROLLMENT.PUG	Temporary holding page shown after sign-up until email is verified.	Auto-refreshes every 30 s;
CART.PUG	Mini-basket listing selected outfits and quantities.	"Remove" buttons fire DELETE /cart/:id; totals recalc client-side so no reload.
CHECKOUT.PUG	Multi-step wizard (address → payment → review).	
DEFAULT_WEB_LOGGED-IN_LAYOUT.PUG /	Master layouts with different nav bars.	Share a base mixin for meta tags so SEO code isn't duplicated.

<b>DEFAULT_WEB_LOGGED-OUT_LAYOUT.PUG</b>		
<b>FAVOURITES.PUG</b>	Shows the user's saved outfits.	Grid cards pull verification badge from Inspection table.
<b>HOME-LOGGED-IN.PUG / HOME.PUG</b>	Landing page (logged-in vs guest).	Houses the filter form that triggers our $2^n$ combination search logic.
<b>LOGIN.PUG</b>	Sign-in screen.	
<b>NEW-LISTING.PUG</b>	Wizard for lenders to post an outfit.	Drag-and-drop image uploader (<10 MB) via <b>multer</b> ; auto-fills colours/sizes from predefined lists.
<b>ORDER-HISTORY.PUG</b>	Table of past rentals and penalties.	
<b>OUTFIT-ADVICE.PUG</b>	Static page of fashion tips plus chatbot embed.	Collapsible FAQ accordions; pulls latest Fashion_Advice rows.
<b>OUTFIT-LISTING-LOGGED-OUT.PUG / OUTFIT-LISTING.PUG</b>	Detailed product page (guest vs member view).	Shows trust badges (inspection pass, lender rating), lazy-loads image carousel.
<b>OUTFIT.PUG</b>	Legacy alias for single-product view (kept for backward links).	Redirects to /outfit-listing/:id if accessed directly.
<b>REDIRECT-PAGE.PUG</b>	Simple "Taking you to ..." intermediary used after login or payment.	3-second meta-refresh and spinner animation.
<b>REGISTER.PUG</b>	Sign-up form.	Password-strength meter in plain JS; consent checkbox links to Terms.
<b>TERMSOFUSE.PUG</b>	Full T&C rendered from Markdown.	Adds anchor links for each clause so the chatbot can deep-link.
<b>UPDATE-LISTING.PUG</b>	Edit form for existing inventory.	Pre-selects current categories and uses PUT /listing/:id via AJAX.

## References

- [1] M. Klein, "Ethical Issues Related to Project Management," Project-Management.com, Aug. 27, 2024. [Online]. Available: <https://www.project-management.com/5-ethical-issues-in-project-management-how-to-handle-them>. [Accessed: Jan. 31, 2025].
- [2] R. L. Kliem, *Ethics and Project Management*, Taylor & Francis Group, 2012. doi: 10.1201/b11213.
- [3] FasterCapital, "Conflict of interest: Navigating Ethical Dilemmas: Understanding Conflict of Interest," [Online]. Available: <https://www.fastercapital.com/articles/conflict-of-interest-navigating-ethical-dilemmas-understanding-conflict-of-interest.html>. [Accessed: Feb. 2, 2025].
- [4] G. Parveen, "Ethical Challenges in Project Management (and Strategies to Address Them)," ResearchGate, Aug. 2024. [Online]. Available: [https://www.researchgate.net/publication/334123456\\_Ethical\\_Challenges\\_in\\_Project\\_Management\\_and\\_Strategies\\_to\\_Address\\_Them](https://www.researchgate.net/publication/334123456_Ethical_Challenges_in_Project_Management_and_Strategies_to_Address_Them). doi: 10.13140/RG.2.2.25325.81127. [Accessed: Jan. 27, 2025].
- [5] G. Nizzoli, "Is Renting Clothes Sustainable? Pros, Cons & Tips," ProjectCECE, Nov. 15, 2023. [Online]. Available: <https://www.projectcece.co.uk/blog/613/is-renting-clothes-sustainable/>. [Accessed: Jan. 30, 2025].
- [6] M. Reid, M. McDonald, M. Dakha, J. Lee, and S. Arbor, "Intellectual Property Rights in Fashion," DLA Piper, Mar. 28, 2023. [Online]. Available: <https://www.dlapiper.com/en/insights/publications/2023/03/intellectual-property-rights-in-fashion/>. [Accessed: Feb. 4, 2025].
- [7] J. Mann, "How Does Intellectual Property Affect the Fashion Industry?" Lawdit Solicitors, Dec. 12, 2023. [Online]. Available: <https://lawdit.co.uk/readingroom/how-does-intellectual-property-affect-the-fashion-industry/>. [Accessed: Jan. 29, 2025].