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Course Name: Web Technologies

Cohort B

Sprint 1 Deliverables Report

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Sprint 1 Deliverables Report

1. Description of the Functionality

The **SwapIt** project is a web-based platform that allows users to exchange goods directly with others. It provides an easy way for people to list items they wish to swap, explore what others are offering, and make exchange requests.

In this first sprint, our goal was to set up the main structure of the system and ensure that users can:

- Register for an account and log in securely.
- Add items they wish to swap.
- Browse through available listings.
- View and edit their user profiles.

We used different programming languages in implementing our website, including PHP, MySQL, HTML, CSS, JavaScript(Node.js), React, and MongoDB, which linked the frontend and backend to provide a smooth data flow and navigation.

2. User Guide

How to Use SwapIt

1. **Login or Register** – Open login.html and either create a new account or sign in.
2. **Dashboard** – After login, the dashboard.html page shows your listings and swap activities.
3. **Add Listing** – Go to add-listing.html and fill in the details of the item you want to swap.

4. **Browse Items** – Use browse.html or index.html to see available listings from others.
5. **Manage Cart** – Use cart.html to track items you are interested in swapping.
6. **Edit Profile** – Visit profile.html to update your information and preferences

3. Summary by Team Members

Team Member	Contributions
Athanase Abayo	Designed and implemented the frontend interfaces (HTML/CSS) for index.html, browse.html, and dashboard.html.
Victoria Ama Nyonator	Developed the authentication module (auth.php) and handled database integration through db.php.
Mabinty Mambu	Created the database schema (schema.sql, cart.sql) and configured connections for item and user data.
Olivier Kwizera	Conducted testing and debugging for form submissions, navigation, and user login features.

4. GitHub Repository Link

All files and commits are stored in the team's GitHub repository:

<https://github.com/athanase02/ashesi-webtech-2025-group5-repository>

5. Testing Strategy

Testing for this sprint was mainly **manual**:

- All pages were tested to confirm that data could be sent to the database.
- The login and registration system was verified for proper credential validation.
- Running our index.html through a browser to ensure the proper display of our website.

Future Plan:

We plan to implement automated testing using PHP test scripts in the upcoming sprints.

6. Retrospective

What Went Well:

- Website structure was completed successfully.
- Links and connections between pages, usage of images, and flexibility, responsiveness for a user-friendly experience
- The interface is simple and clear.

What Did Not Go Well:

- Image uploads were unstable for the profile picture when someone creates an account
- Some swap confirmation functions were not linked yet.
- Some functions were overriding others.
- Linking with the super base, MySQL did not work, so we tried to use MongoDB for our database(to be continued in the next sprint)
- Cart implementation and functionality are still missing

Next Sprint Focus:

- Improve image uploads and user messaging.

- Link our website with MongoDB for storing information, and later host our website

7. Architecture Page

a. Major Pages Planned

1. index.html – Homepage with featured swap items.
2. login.html – For user login and signup.
3. add-listing.html – Add new swap listings.
4. browse.html – Browse all available swap items.
5. dashboard.html – Manage personal listings and requests.
6. cart.html – Track swap interests.
7. profile.html – Manage personal account details.

B. Major Tables and PHP Functions

Main Database Tables:

- **Users:** Stores user data, including username, password, and email.
- **Items:** Keeps details of listed items (title, category, owner).
- **Cart:** Tracks users' swap interests.

Main PHP Functions:

- registerUser() – Registers new users.
- loginUser() – Authenticates login details.
- connectDB() – Connects the system to the MySQL database, which did not work at this moment
- addItem() – Adds new items to the database.

c. Implemented vs Planned

Implemented:

index.html, login.html, add-listing.html, browse.html, dashboard.html, and database setup.

Planned for Next Sprint:

User messaging and swap confirmation workflow.

d. Frontend Libraries

The team used **HTML, CSS, JavaScript**, React, and PHP for the first sprint.

No external frameworks have been added yet, but **jQuery** may be used in later stages to enhance interactivity and add AJAX features.

e. Demo Overview

The demo showcases the main site, including login, listing addition, and item browsing.

It demonstrates how SwapIt can make item exchanges easier, faster, and community-driven. Please find more about the demo in the attached video on our GitHub

8. Conclusion

We finally launched the first and foremost Sprint 1, successfully establishing the foundation of SwapIt. The core features, user registration, item listing, and browsing, are fully working. The next sprint will focus on improving interactivity, adding messaging, and testing system reliability.