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| **ID** | **Priority** | **Status** | **User stories** | **Tasks** | **Story point** | **Risk** | **Scenarios** |
| DT-1 | 1 | Complete | As a User, I want to be able to create an account so that I can safely secure my information. | User -> Create account  Define Signup/login Page form style (Username, address, payment method)  Develop PHP/JavaScript page  Keep track of user's session. | 13 | LOW-MEDIUM | **Successful sign up**:  - Personal information provided have no conflict with the ones in database (no repeated username/email)  - Direct user to a successful sign-up page  - Encrypt data and register user in database  **Unsuccessful:**  - Identical information (duplicate account risk) => Display alert  - Unable to register new users => Display error (user+admin)  - Invalid entries (email/email confirmation and pwd/pwd confirmation not matching) => Display alert message  - Invalid payment method (invalid information: card number/expiry date/security code) => Display error |
| UI-1 | 5 | On hold | As a Seller, I want to be able to advertise my products so that my products get more exposure. | Seller -> Advertisement  Define page style (layout)  Develop PHP page  Link image and product detail (if use carousel to display advertisement) | 5 | LOW | - Clicking on the image => Direct user to the corresponding product detail page  - Carousel contains products that are listed in the database  - Good interval time between each slide (carousel) |
| UI-2 | 2 | Complete | As a User, I would like to search through the list of products with ease. | User -> Search  Define a search bar on the menu  Develop a search engine  Link search engine to database | 40 | MEDIUM-HIGH | - Search bar -> able to search  - Searching for items => Display all the results  -No item found => Display "no result"  - Enable autofill => ease searching  - Display suggestions of similar items |
| DT-2 | 1 | On hold | As a user, I want my credit card credentials to be safe so that I can have a secure transaction. | User -> Payment method  Define form style (in sign up page/check out page)  Define PHP/JavaScript page | 3 | MEDIUM | - Encrypt information when registered  **Successful authorization:** Display "payment confirmation"  **Unsuccessful payment:**  - Display "payment failed"  - Insufficient balance => Display error |
| UI-3 | 4 | On hold | As a user, I want to initiate the "return process" if I’m unhappy with my purchase. | User -> Returns/Refund  Define page form style (asking for item ID, reason for return)  Develop PHP/JavaScript page  Develop a Return Center page for more details (explanation about the process) | 13 | MEDIUM | - Able to find corresponding item for return => list of purchases  - Option return or exchange  - List of reason for return => damaged/item not as described/do not want it anymore  **Successful submission:** seller and company receive the request  **Unsuccessful submission =”** Display error message and direct to contact us page |
| UI-4 | 3 | On hold | As a developer, I want a dashboard which recommends items to the user so that they don't have to browse the website manually. | Developer -> Dashboard  Define page style (layout)  Develop a search engine/carousel to display recommendation (most viewed/popular/purchased items) | 13 | LOW | Once clicked on item => direct user to product detail page |
| UI-5 | 4 | Complete | As a developer, I want to add a page which says "contact Us" so that a customer can email the customer service team about an issue with a product they had. | Developer -> Contact Us(seller)  Define page form style  Identify seller and product ID  Develop JavaScript to send e-mail | 3 | LOW-MEDIUM | - Validation of product ID  - Validate seller information  - Ensure email/request is sent (seller/company) |
| UI-6 | 1 | Complete | As a Developer, I want to create a public landing page which shows up when a new user visits the website for the first time. | Developer -> landing page  Define page style (PHP)  Keep track of user’s session  Link to other pages | 8 | LOW | - Welcome message  - Have a banner/logo with store name  - Carousel promoting products (optional)  - Tabs => direct user to the corresponding page (Categories/sales/login/sign up/cart) |
| UI-7 | 5 | On hold | Add Google login using google API so that users don’t have to create a new account and can directly sign in. | User/Developer -> Google Login  Develop a system that links Google sign in and store (using Google API) | 13 | MEDIUM | - Button for Google sign in in sign-up/login page  - Implement Google API in system |
| DT-3 | 1 | Complete | As a developer, I want to design a database to store user information and products for sale on the marketplace. | Developer -> Database  Develop a system to store all data (users/products)  Encrypt data for security (user's information) | 40 | MEDIUM | - Able to add/remove data (from the store or directly in database)  **On successful action** => Display confirmation message  **On unsuccessful action** => Display error message  - Data not found -> Display error/alert |
| UI-8 | 2 | Complete | As a user, I would like to add items to a "shopping cart" so that I can checkout all my items at once. | User -> Shopping Cart  Define cart tab on menu bar  Develop PHP/JavaScript page  JavaScript for removing/adding items to cart  Develop JavaScript to calculate total price  Shopping cart -> checkout page | 20 | MEDIUM | - Click on add => corresponding item is added to cart  - Clicked on delete/remove => item is removed from cart  - Price display the right amount => adjust itself to changes  - Clicking on item in cart => direct user to product detail page  **Successful action:**  Display successful addition/deletion  **Unsuccess action:**  Display alert/error message |
| UI-9 | 3 | Complete | As a user, I would like to change my shipping address and billing address in case I move away. | User -> Shipping address  Develop a system to update database as clients edit in their profile  Develop a form for update | 1 | LOW | When user edits their information => Database gets updated  **Successful submission** -> Display successful message of modification  **Unsuccessful submission** -> Display error/alert message |
| UI-10 | 1 | Complete | As a user, I want to be able to login to an account I've already created so I can store my personal info such as name, address, credit card, etc. | User -> Login  Develop PHP/JavaScript page (email/username and pwd)  Login button that open a session  Welcome message to clients  Forgot password button (if needed) | 8 | LOW | - Matching username and password => Successful Login  - Invalid match => Display alert/error message (invalid email or pwd)  **On successful login** => direct user to index (home page)  **Unsuccessful login** => direct user to user not found page (ask user to sign-up/try again) |
| UI-11 | 1 | Complete | As a User, I want to view all available products by clicking on a “products” button. | User->Products page  Develop the products page using PHP.  Insert individual products using CSV (temporary) to display on products page.  In sprint 3, We will use SQL to insert/update products. | 13 | LOW | - Upon click of “Products” button -> Brings user to products page  - **On successful click** -> brings user to products page  - **On unsuccessful click** -> no products are shown on the products page OR unable to take user to products page on click of the “Products” button. |
| DT-4 | 1 | Complete | As a User, I want to be able to post an item for sale on the market | User -> Sell page  User -> Enter information  User -> Post item which will be listed on the market. | 8 | LOW-MEDIUM | -Upon successful click of “Sell” page -> brings user to sell page  User enters information and list product to sell. If product does not list, then unsuccessful.  If product is successfully listed then other users will be able to see it on the market. |
| UI-12 | 1 | Complete | As a User, I would like to have my own set of features specific to a “Seller” type of user so that I can edit and remove products for sale. | Seller -> Welcome page  Seller -> Edit products page (requires edit button)  Seller -> able to edit/remove products from the selling page. | 13 | LOW-MEDIUM | Upon successful click of “Products” page -> brings user to products page  Seller clicks “edit” button -> seller can now edit the product and apply changes. Successful if the changes to the product are applied.  Seller clicks “remove” button -> seller can now remove the product. Successful if the product is removed from the market. |
| UI-13 | 1 | Complete | As a User, I would like to have my own set of features specific to a “Admin” type of user so that I can manage the other users. | Admin->Welcome Page  Admin->List all Users  Admin->List All products  Admin->List all orders | 5 | LOW-MEDIUM | Upon successfully logging in to the website -> Directs admin to Admin Dashboard  -Admin clicks “List Users” -> Redirects Admin to a list of all Users in a table.  Admin clicks “List products” -> Redirects Admin to a list of all products in a table.  Admin clicks “list order” ->Redirects Admin to a page that lists all the Orders in a table. |
| UI-14 | 1 | Complete | As a user, I would like to view my orders sot that all my past orders can be displayed in a table. | Buyer -> My orders  -Create “My orders” button  - Display view of the past orders from this user from the database in which they’re stored in. | 5 | LOW | Upon succesfully logging in as a buyer -> Directs user to home page.  User -> “My orders” button  Redirects user to a page that list all previous orders n  In a table. |

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| ID | User stories | Risk | Consequence | Countermeasure | Story point explanation |
| DT-1 | Create an account | - Unable to register an account in database  - Data are not safely stored | - Database will not be up to date as new data are not registered in the system.  - If not safely stored, data are easily accessible to the public | Database can be updated frequently and encrypted. | This user story is 13 points because most of the students would be able to implement this feature easily from knowledge in a previous SOEN course. However, it is still a lengthy task so it requires moderate effort. |
| UI-1 | Advertisement of products | There is no significant risk of implementing this feature. | In some scenarios, this feature might affect the user’s experience of the product. However, it does not affect the project. | - | A very small user story that will only be implemented once the core of the website is working. This a fairly simple and small story so which can be easily implemented by our front end developers |
| UI-2 | Search engine | Search engine is not linked to the database. | Unable to process any searching | Test the search bar | This user story also has 40 story points because it requires the implementation of a searchable browser that will be linked to all the products from DT – 3 which will take a lot of our backend developers' effort. |
| DT-2 | Safely storing credit credentials | - Data are not encrypted, which can be easily accessed | Data are accessible, which means the project is not secure. | Encrypt the data | This user story only has 3 pts because it is an extremely small and simple story which requires minimal effort to implement. |
| UI-3 | Initiate return process | There is no significant risk of implementing this feature. | This feature does not affect the project. | - | This story is 13 pts because it will require the creation of an additional page. It is easy to implement and low effort but not as low effort as some smaller user stories. |
| UI-4 | Dashboard | There is no high risk in implementing this feature | This feature does not affect the project. | - | This story is one of the core features of our project. It is simple to implement due to prior knowledge in SOEN courses and requires a small amount of effort. |
| UI-5 | Contact Us page | There is no significant risk of implementing this feature. | This feature does not affect the project. | - | This story has minimal story points because it requires the least amount of effort to implement as it is very simple to add an additional page for “Contact us” |
| UI-6 | Public landing page | There is no significant risk of implementing this feature. | This feature does not affect the project. | - | This story has 8 story points because it will be the main page that a user sees for the first time which will link to all the other pages. We figured it requires low to moderate effort to implement. |
| UI-7 | Google API | Unable to establish a connection between Google API and the system. | This feature does not affect the project. | - | This story is 13 story points because none of the development team have worked with google API before and implement the google login will require a learning curve and thus require moderate effort to implement. |
| DT-3 | Database for products | - Data are not encrypted.  - Data structure not appropriate for this feature | Data leakage | Encrypt data | We allocated 40 story points to because implementing a database is not something many of us had knowledge in so this story requires a lot of learning and effort. |
| UI-8 | Shopping cart | JavaScript is malfunctioning. | Unable to process item value, which causes error in the price display | Function testing | This user story requires 20 story points to implement because it will make use of many of the core functionalities of our project. Therefor it will require a moderate to high amount of effort to implement. |
| UI-9 | Edit profile | Changes are not reflected in database | Database not up to date, which can lead to problem in other features (login) | Make sure it is linked to the database and that changes are processed in less than 24 hours. | We allocated 1 story point to this because once the profile page is set up it will be simple to implement the feature to edit the profile. |
| UI-10 | Login | Unable to retrieve information to log in | Feature will not be working properly as no user are able to start a session. | Ensure that in every page, user is able to start a session. As this feature is processed, information should be retrieved from the corresponding database. | This user story is another core feature of the project in which we allocated 13 story points. Because of previous experience in SOEN courses this feature is straightforward to implement and requires moderate effort if errors occur. |
| UI-11 | Products page | Unable to display the products listed. | User will not be able to see any of the products which are listed in the database linked to the products page. | Ensure that the products page and the database are linked correctly so the user can see an up-to-date version of the products listed in the database on the products page. | This user story was allocated 13 story points because the backend and front-end developers will need to work together to link the products page to the database. This will require a moderate amount of effort if the base features are working properly. |
| DT-3 | Post item for sale | The item you’re attempting to list is not listed for sale | The item that you’ve tried to post will not be listed for sale and other users won't be able to see the item | Ensure that when the seller wants to sell an item the product gets added to the database successfully and is posted for sale on the products page. | We’ve allocated 8 story points here because this is a functionality that requires adding an item to the database which we’ve already implemented in other functionalities in our project. |
| UI-12 | Modify items for sale | The edit button is not visible | The seller will not be able to modify any item that they’ve posted because the edit button is not appearing. | Be sure that each time the seller accesses the sellers page that there is an edit button for each individual product. | We’ve allocated 13 story points to this feature because this is a novel story meaning it’s the first time we are implementing this feature, and it may take more effort than usual. |
| UI-13 | Admin | No buttons visible for list all users, list all products and list all orders | The seller will not be able to see a complete a table for all the products, users and orders. | The admin user should “List all” buttons should appear each time they’ve accessed the admin page. | We’ve allocated 5 story points to this story because all we must do a list the databases in a table holding the users, products and orders. |
| UI-14 | Buyer | No button visible to named “My orders” | The buyer will not be redirected to the page which list the previous orders of the b buyer, | Ensure button is visible to the user. | We’ve allocated 5 story points to this feature because again all we must do is display a list of the past orders in the database to the website so that the user can view it. |

**Sprint 4 Velocity: 71**

**Criteria:**

**User story ID**: Labelled with an acronym defining which subsection of the project it belongs to (I.e., UI –1, DT-2, etc.)

**Priority**: Will be labelled on a scale of 1 – 5 (1 = Must implement, 2 = Should implement, 3 = Could implement, 4 = Implement only if we have time, 5 = Wont implement)

**Story points**: Used as a relative measure to estimate the difficulty and the effort required to implement a specific user story (40 is the biggest story and 1 is the smallest)