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| ID | Priority | Status | User stories | Tasks | Story point | Risk | Scenarios |
| 1 | #3 | ongoing | 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 |
| 2 | #13 | - | 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) |
| 3 | #7 | - | 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 |
| 4 | #10 | - | 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 |
| 5 | #11 | - | 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 |
| 6 | #12 | - | 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 |
| 7 | #8 | ongoing | 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) |
| 8 | #1 | ongoing | 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) |
| 9 | #9 | - | 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 |
| 10 | #2 | ongoing | 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 |
| 11 | #6 | - | 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 | 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 |
| 12 | #5 | ongoing | 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 |
| 13 | #4 | ongoing | 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) |

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| ID | User stories | Risk | Consequence | Countermeasure |
| 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. |
| 2 | 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. | - |
| 3 | Search engine | Search engine is not linked to the database. | Unable to process any searching | Test the search bar |
| 4 | 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 |
| 5 | Initiate return process | There is no significant risk of implementing this feature. | This feature does not affect the project. | - |
| 6 | Dashboard | There is no high risk in implementing this feature | This feature does not affect the project. | - |
| 7 | Contact Us page | There is no significant risk of implementing this feature. | This feature does not affect the project. | - |
| 8 | Public landing page | There is no significant risk of implementing this feature. | This feature does not affect the project. | - |
| 9 | Google API | Unable to establish a connection between Google API and the system. |  |  |
| 10 | Database for products | - Data are not encrypted.  - Data structure not appropriate for this feature | Data leakage | Encrypt data |
| 11 | Shopping cart | JavaScript is malfunctioning. | Unable to process item value, which causes error in the price display | Function testing |
| 12 | 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. |
| 13 | 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. |