1. List of User

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name** | **Requirement** | **Authorization** |
| 1 | Inactive User | Id, password | Search shopping mall, search product, purchase, transfer, cancel transaction |
| 2 | General User | Id, password, nickname, name, age group, email, and phone number, profile picture | Search shopping mall, search product, purchase, cancel transaction |
| 3 | Business User | Id, password, nickname, name, age group, email, and phone number, profile picture**, acceptance of being business user** | - Search shopping mall, search product, purchase, cancel transaction  - Open, close, operate the shopping mall |
| 4 | Administrator | Id, password | - Check, approve, disapprove business user conversion  - Check, approve, disapprove the list of shopping malls  - Accept the request for closure |
| 5 | Guest |  | - Sign up, sign in |

1. List of Use case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Status** | **Name** | **Description** | **Including user** |
| U01 | ok | Sign up | Submit ID and password **ok** | Guest |
| U02 |  | Sign in | - Input ID and password : **ok**  - Authenticate: **ok**  - Authorization**: ok**  - Receive JWT: **ok**  . | Inactive user, General user, Business user, Administrator |
| U03 |  | Convert to general user | Update nickname, name, age group, email, and phone number: **ok** | Inactive user |
| U04 |  | Apply to business user conversion | Apply to convert from general user to business user: **ok** | General user |
| U05 |  | Manage the business user conversion | Check: **ok**  Accept: **ok**  Reject the applications for business user conversion **ok** | Administrator |
| U06 |  | Manage the general shopping malls | - Determine the types of classifications: **ok**  - Check **ok**  , approve **ok**  , disapprove the list of shopping malls **ok**  **- Show the disapproving reasons, if any: not yet**  - Check **ok**  and accept the request for closure of the shopping mall **ok** | Administrator |
| U07 |  | Manage the opening/closure of personal shopping mall | - Submit and modify information about name, introduction, and classification of store: **ok**  - **Apply to open the shopping mall ok**  **- Confirm the disapproving reasons, if any: not yet**  - Request the closure of the shopping mall by writing the reason:**ok** | Business user |
| U08 |  | Manage the products of personal shopping mall | Manage products information including registering, modifying and deleting product name, product image, product description,  product price, and product inventory : **ok** | Business user |
| U09 |  | Search the shopping malls | Search by name and classification  of the shopping mall **ok** | Inactive user, General user, Business user |
| U10 |  | Search the products | Search for products based on name: **ok**  and price range: **ok** | Inactive user, General user, Business user |
| U11 |  | Purchase the products | **Make a purchase request based on the product and purchase quantity**  **- add item to cart:** ok  /purchase/add-product-to-cart  (Can add many items to one cart)  - **view current cart**: ok  /purchase/viewCart  **- bill purchase request:** ok  /request-to-payment | General user, Business user |
| U12 |  | Transfer | Transfer the amount required for the purchase after the purchase request: **ok** | General user |
| U13 |  | Cancel the purchase | Cancel the purchase request before the purchase request is accepted: **ok** | General user |
| U14 |  | Manage the purchase request | - Confirm the transferred amount  - Accept the purchase request  - Manage the update of product inventory | Business user |

1. Data test:

**Token of Business user**

Loctest01, id 17

eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJsb2N0ZXN0MDEiLCJpYXQiOjE3MjY1OTgzODgsImV4cCI6MTcyNzIwMzE4OH0.H9-WP3iBAXT6VKTJ8jWYPXgW8ujRjJAzrZOBmKl9uWd9udu945Wn1bQjUHCfq73w

**Token of admin1**

eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJhZG1pbjEiLCJpYXQiOjE3MjY1OTg1ODcsImV4cCI6MTcyNzIwMzM4N30.MeM9ZJn4nwKHZfPmeFEy4W5DMVef5Mnj91eToBMF8gVoj28LCUV0I6vehVXthY5Y

**Token of GeneralUser**

"id": 13,

        "username": "user104",

        "password": "wsx123"

eyJhbGciOiJIUzM4NCJ9.eyJzdWIiOiJ1c2VyMTA0IiwiaWF0IjoxNzI2NTk4NjU0LCJleHAiOjE3MjcyMDM0NTR9.GV88fAS60CbjSzDHTSkHK\_sLBl9O-BMbuDX5QKT3ELUsRpX-SEdQHEikJ9XHP2Cq