## Definition

* Guest - unregistered user.
* User - registered user of the system who able to buy products in the system.
* Admin - administrator who can manage the system.
* Product - item that the system want to sell
* Omise - payment gateway for Southeast Asia, based in Thailand, providing a secure and white label solution to merchants and enterprise businesses.
* Paypal - payment gateway
* Kerry Express - logistic parcel delivery service
* Tracking code - tracking code of logistic parcel delivery service that provide us after we posted a parcel.
* Activate token - a random code that send to user’s email for activating their account.

## User Requirement Specification

### Guest

* **Urs-01**: Guest can register to the system
* **Urs-02**: Guest can view product in the system

### Admin

* **Urs-03**: Admin can login to the system by using their email and password.
* **Urs-04**: Admin can log out from the system.
* **Urs-05**: Admin can add new product to the system
* **Urs-06**: Admin can edit product in the system
* **Urs-07**: Admin can remove product in the system
* **Urs-08**: Admin can view statistics record of sale
* **Urs-09**: Admin can view trend of products (forecast) in quarter
* **Urs-10**:Admin can view products in the system
* **Urs-11**: Admin can view user’s account
* **Urs-12**: Admin can delete user’s account
* **Urs-13**: Admin can search user’s account
* **Urs-14**:Admin can view pending shipping product.
* **Urs-15**: Admin can send the tracking code of order
* **Urs-16**: Admin can select system language

### Users

* + **Urs-17**: Users can login to the system by using their email and password.
  + **Urs-18**: Users can logout from the system.
  + **Urs-19**: Users can activate their account by using activate token
  + **Urs-20**: Users can edit their profile
  + **Urs-21**: Users can reset their password
  + **Urs-22**: Users can view product
  + **Urs-23**: Users can put product into shopping cart.
  + **Urs-24**: Users can view their shopping cart.
  + **Urs-25**: Users can edit amount of product in shopping cart
  + **Urs-26**: Users can view total cost of products and delivery charge
  + **Urs-27**: Users can select delivery address before click purchase
  + **Urs-28**: Users can select payment gateway before click purchase
  + **Urs-29**: Users can search product in the system
  + **Urs-30**: Users can select system language

## System Requirement Specification

* + **Srs-01**: The system shall provide registration UI to register to be a member
  + **Srs-02**: The system shall check all input required.
  + **Srs-03**: The system shall stores the Guest data as new User
  + **Srs-04**: The system shall send the activate token to user’s email.
  + **Srs-05**: The system shall provide UI to log in.
  + **Srs-06**: The system shall authenticate user/admin
  + **Srs-07**: The system shall authorize user/admin
  + **Srs-08**: The system shall provide UI to logout.
  + **Srs-09**: The system shall unauthenticated user/admin
  + **Srs-10**: The system shall provide add product UI to add new product.
  + **Srs-11**: The system shall create a sub directory for product.
  + **Srs-12**: The system shall upload image to directory.
  + **Srs-13**: The system shall get file path.
  + **Srs-14**: The system shall check all input required.
  + **Srs-15**: The system shall record new product into database
  + **Srs-16**: The system shall provide edit promotion user interface to edit product.
  + **Srs-17**: The system shall provide UI to remove product
  + **Srs-18**: The system shall remove image in directory
  + **Srs-19**: The system shall check there is no image in directory
  + **Srs-20**: The system shall remove directory
  + **Srs-21**: The system shall remove image path in database
  + **Srs-22**: The system shall update UI
  + **Srs-23**: The system shall provide the UI of statistics records of sales
  + **Srs-24**: The system shall receive selected range of records by day, week, month or year from user
  + **Srs-25**: The system shall query records of sales from the system storage
  + **Srs-26**: The system shall filter queried records
  + **Srs-27**: The system shall show result of queried items from system storage
  + **Srs-28**: The system shall provide the UI that consists of trend of products (forecast) in quarter
  + **Srs-29**: The system shall computes the trend of product in quarter
  + **Srs-30**: The system shall display the trend of product
  + **Srs-31**: The system shall get data from database
  + **Srs-32**: The system shall provide UI to show product list
  + **Srs-33**: The system shall provide UI to show user account
  + **Srs-34**: The system shall provide user interface to delete user
  + **Srs-35**: The system shall remove user’s account from the database.
  + **Srs-36**: The system shall check there is no user’s account in the database
  + **Srs-37**: The system shall find account in database
  + **Srs-38**: The system shall return account list
  + **Srs-39**: The system shall provide user interface to show account list
  + **Srs-40**: The system shall provide UI to show pending shopping product list
  + **Srs-41**: The system shall provide add tracking code UI to add new code of tracking order
  + **Srs-42**: The system shall send the tracking code to user’s email
  + **Srs-43**: The system shall provide UI to select the system language
  + **Srs-44**: The system shall update the system language
  + **Srs-45**: The system shall send activate token to user’s email
  + **Srs-46**: The system shall receive activate token
  + **Srs-47**: The system shall validate activate token
  + **Srs-48**: The system shall activate user account
  + **Srs-49**: The system shall provide edit profile UI to edit the profile
  + **Srs-50**: The system shall update new input information to the database
    - **Srs-51**: The system shall provide reset password UI to reset their password
    - **Srs-52**: The system shall send the reset password link to user’s email
    - **Srs-53**: The system shall verify new password and confirm password
    - **Srs-54**: The system shall update new input password to the database
    - **Srs-55**: The system shall provide UI to put product into shopping cart
    - **Srs-56**: The system shall store product in shopping cart
    - **Srs-57**: The system shall get data from shopping cart
    - **Srs-58**: The system shall provide UI to show product in shopping cart
    - **Srs-59**: The system shall provide UI to edit amount of product
    - **Srs-60**: The system shall record amount of product into the database
    - **Srs-61**: The system shall calculate total cost
    - **Srs-62**: The system shall display total cost
    - **Srs-63**: The system shall provide UI for user to select address
    - **Srs-64**: The system shall record delivery address into the database
    - **Srs-65**: The system shall provide UI for user to select payment gateway
    - **Srs-66**: The system shall record payment gateway into the database
    - **Srs-67**: The system shall find product in database
    - **Srs-68**: The system shall return product list
    - **Srs-69**: The system shall provide UI to show product list

## User Requirement Specification with System Requirement Specification

* **Urs-01**: Guest can register to the system
  + **Srs-01**: The system shall provide registration UI to register to be a member
  + **Srs-02**: The system shall check all input required.
  + **Srs-03**: The system shall stores the Guest data as new User
  + **Srs-04**: The system shall send the activate token to user’s email.
* **Urs-02**: Guest can view product
  + **Srs-31**: The system shall get data from database
  + **Srs-32**: The system shall provide UI to show product list
* **Urs-03**: Admin can login to the system by using their email and password.
* **Srs-05**: The system shall provide UI to log in.
* **Srs-06**: The system shall authenticate user/admin
* **Srs-07**: The system shall authorize user/admin
* **Urs-04**: Admin can log out from the system
  + **Srs-08**: The system shall provide UI to logout.
  + **Srs-09**: The system shall unauthenticated user/admin
* **Urs-05**: Admin can add new product to the system
  + **Srs-10**: The system shall provide add product UI to add new product.
  + **Srs-11**: The system shall create a sub directory for product.
  + **Srs-12**: The system shall upload image to directory.
  + **Srs-13**: The system shall get file path.
  + **Srs-14**: The system shall check all input required.
  + **Srs-15**: The system shall record new product into database
* **Urs-06**: Admin can edit product in the system
  + **Srs-16**: The system shall provide edit promotion user interface to edit product.
  + **Srs-11**: The system shall create a sub directory for product.
  + **Srs-12**: The system shall upload image to directory.
  + **Srs-13**: The system shall get file path.
  + **Srs-14**: The system shall check all input required.
  + **Srs-15**: The system shall update new input information to the database
* **Urs-07**: Admin can remove product in the system
  + **Srs-17**: The system shall provide UI to remove product
  + **Srs-18**: The system shall remove image in directory
  + **Srs-19**: The system shall check there is no image in directory
  + **Srs-20**: The system shall remove directory
  + **Srs-21**: The system shall remove image path in database
  + **Srs-22**: The system shall update UI
* **Urs-08**: Admin can view statistics record of sale
  + **Srs-23**: The system shall provide the UI of statistics records of sales
  + **Srs-24**: The system shall receive selected range of records by day, week, month or year from user
  + **Srs-25**: The system shall query records of sales from the system storage
  + **Srs-26**: The system shall filter queried records
  + **Srs-27**: The system shall show result of queried items from system storage
* **Urs-09**: Admin can view trend of products (forecast) in quarter
  + **Srs-28**: The system shall provide the UI that consists of trend of products (forecast) in quarter
  + **Srs-29**: The system shall computes the trend of product in quarter
  + **Srs-30**: The system shall display the trend of product
* **Urs-10**:Admin can view products in the inventory
  + **Srs-31**: The system shall get data from database
  + **Srs-32**: The system shall provide UI to show product list
* **Urs-11**: Admin can view user’s account
  + **Srs-31**: The system shall get data from database
  + **Srs-33**: The system shall provide UI to show user account
* **Urs-12**: Admin can delete user’s account
  + **Srs-34**: The system shall provide user interface to delete user
  + **Srs-35**: The system shall remove user’s account from the database.
  + **Srs-36**: The system shall check there is no user’s account in the database
* **Urs-13**: Admin can search user’s account
  + **Srs-37**: The system shall find account in database
  + **Srs-38**: The system shall return account list
  + **Srs-39**: The system shall provide user interface to show account list
* **Urs-14**:Admin can view pending shipping product.
  + **Srs-31**: The system shall get data from database
  + **Srs-40**: The system shall provide UI to show pending shopping product list
* **Urs-15**: Admin can send the tracking code of order
  + **Srs-41**: The system shall provide add tracking code UI to add new code of tracking order
  + **Srs-42**: The system shall send the tracking code to user’s email
* **Urs-16**: Admin can select system language
  + **Srs-43**: The system shall provide UI to select the system language
  + **Srs-44**: The system shall update the system language
  + **Urs-17**: Users can login to the system by using their email and password.
    - **Srs-05**: The system shall provide UI to log in.
    - **Srs-06**: The system shall authenticate user/admin
    - **Srs-07**: The system shall authorize user/admin
  + **Urs-18**: Users can logout from the system.
    - **Srs-08**: The system shall provide UI to logout.
    - **Srs-09**: The system shall unauthenticated user/admin
  + **Urs-19**: Users can activate their account by using activate token
    - **Srs-45**: The system shall send activate token to user’s email
    - **Srs-46**: The system shall receive activate token
    - **Srs-47**: The system shall validate activate token
    - **Srs-48**: The system shall activate user account
  + **Urs-20**: Users can edit their profile
    - **Srs-49**: The system shall provide edit profile UI to edit the profile
    - **Srs-02**: The system shall check all input required.
    - **Srs-50**: The system shall update new input information to the database
  + **Urs-21**: Users can reset their password
    - **Srs-51**: The system shall provide reset password UI to reset their password
    - **Srs-52**: The system shall send the reset password link to user’s email
    - **Srs-53**: The system shall verify new password and confirm password
    - **Srs-54**: The system shall update new input password to the database
  + **Urs-22**: Users can view product
    - **Srs-31**: The system shall get data from database
    - **Srs-32**: The system shall provide UI to show product list
  + **Urs-23**: Users can put product into shopping cart.
    - **Srs-55**: The system shall provide UI to put product into shopping cart
    - **Srs-56**: The system shall store product in shopping cart
  + **Urs-24**: Users can view their shopping cart.
    - **Srs-57**: The system shall get data from shopping cart
    - **Srs-58**: The system shall provide UI to show product in shopping cart
  + **Urs-25**: Users can edit amount of product in shopping cart
    - **Srs-59**: The system shall provide UI to edit amount of product
    - **Srs-60**: The system shall record amount of product into the database
  + **Urs-26**: Users can view total cost of products and delivery charge
    - **Srs-61**: The system shall calculate total cost
    - **Srs-62**: The system shall display total cost
  + **Urs-27**: Users can select delivery address before click purchase
    - **Srs-63**: The system shall provide UI for user to select address
    - **Srs-64**: The system shall record delivery address into the database
  + **Urs-28**: Users can select payment gateway before click purchase
    - **Srs-65**: The system shall provide UI for user to select payment gateway
    - **Srs-66:** The system shall record payment gateway into the database
  + **Urs-29**: Users can search product in the system
    - **Srs-67**: The system shall find product in database
    - **Srs-68**: The system shall return product list
    - **Srs-69**: The system shall provide UI to show product list
  + **Urs-30**: Users can select system language
    - **Srs-43**: The system shall provide UI to select the system language
    - **Srs-44**: The system shall update the system language