A picture containing graphical user interface

Description automatically generatedA picture containing text

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**GAMES SHOP**

**Software Design Specification**

– Hanoi, April 2022 –

**Record of changeS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **A\* M, D** | **In charge** | **Change Description** |
| 14/4/2022 | A | Trần Sơn | Database ERD diagram |
| 18/4/2022 | M | Trần Sơn | Update ERD diagram |
|  |  | Nguyễn Định | Database ERD diagram |
|  |  |  | Update ERD diagram |
|  |  |  |  |
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\*A - Added M - Modified D - Deleted

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# I. Overview

## 1. Code Packages

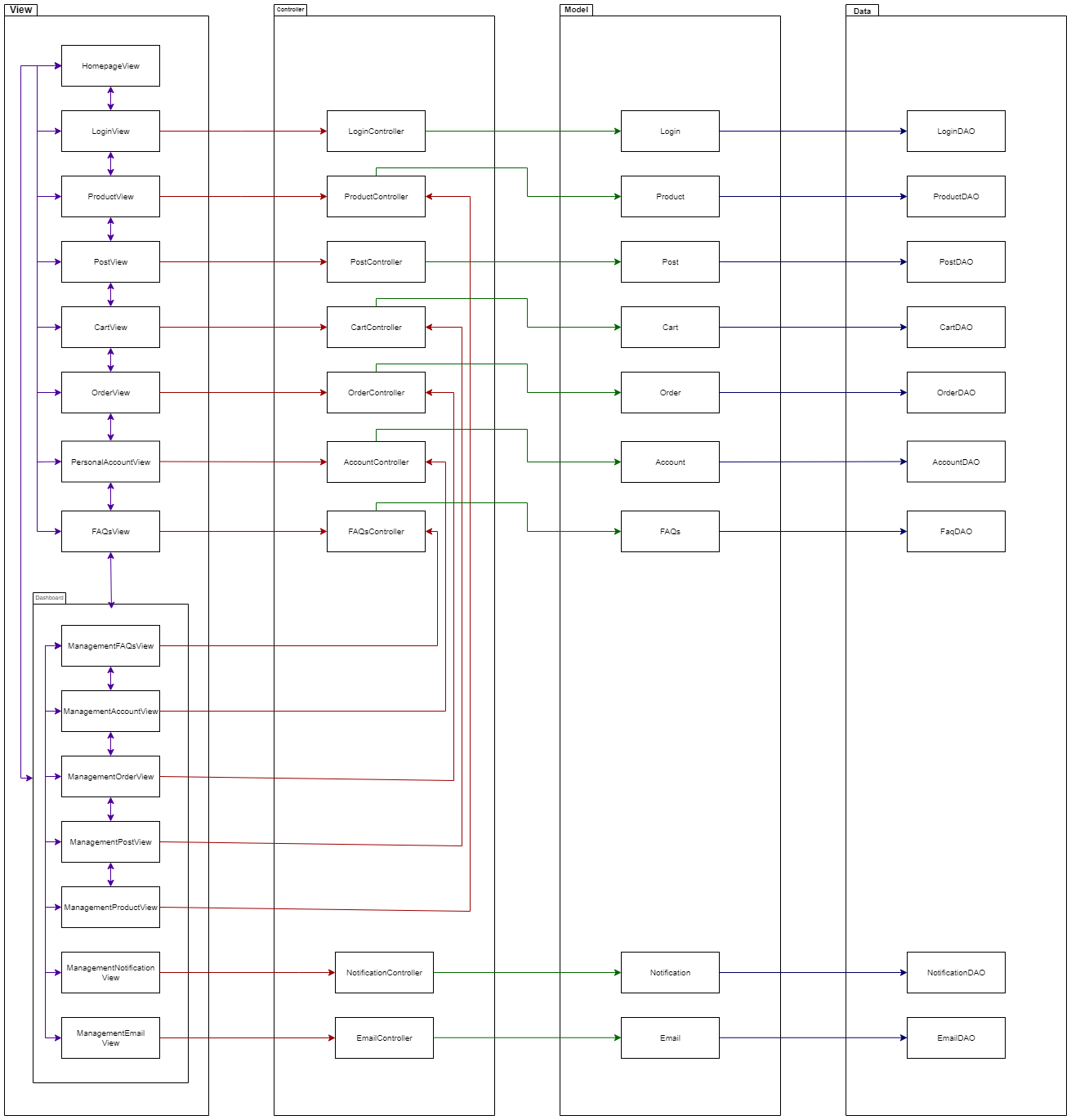


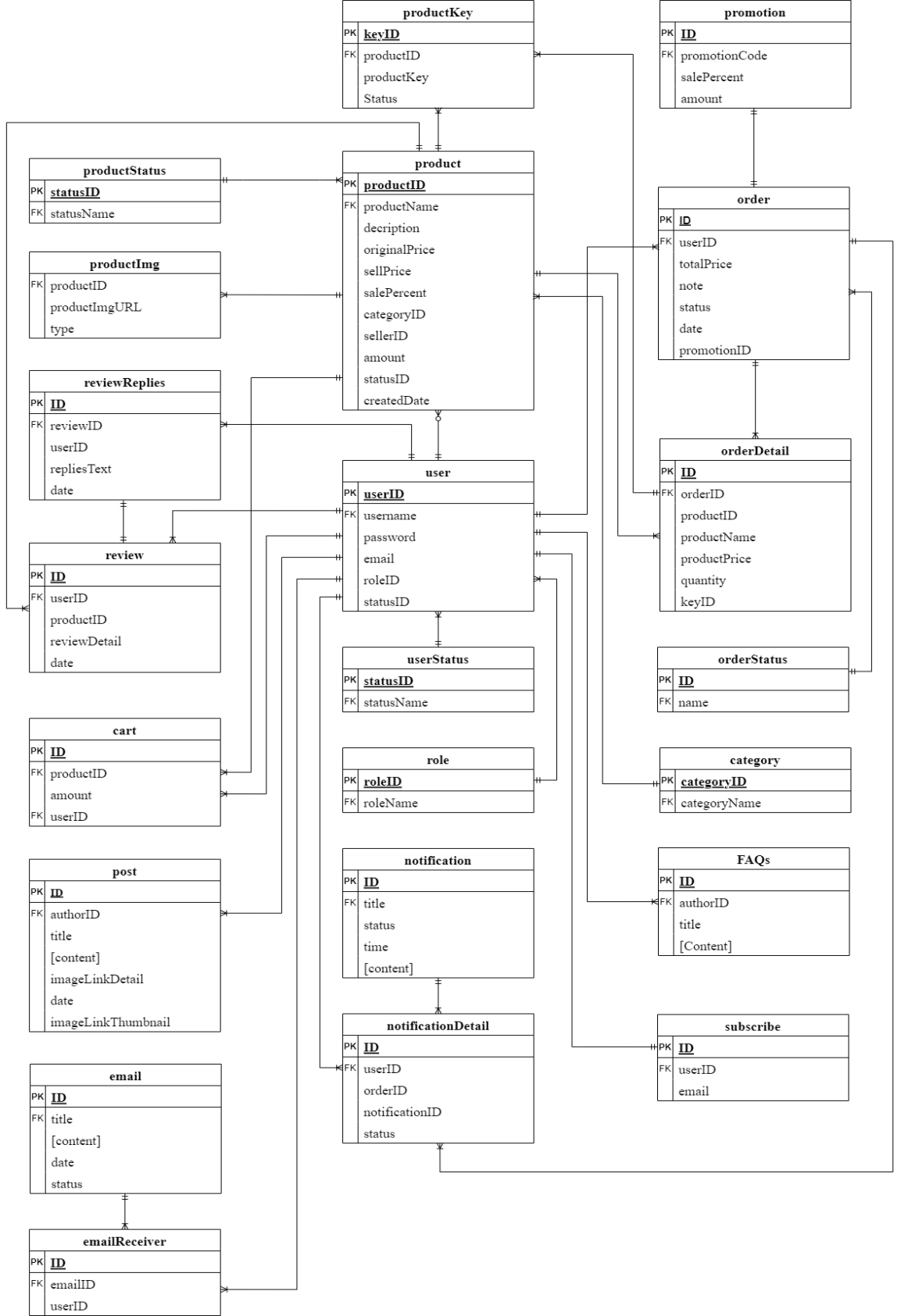
Figure 1.1.1: Code package

***Package descriptions & package class naming conventions***

|  |  |  |
| --- | --- | --- |
| **No** | **Package** | **Description** |
| 01 | view | This package used to contain html/css/js file, besides is assets with image, logo,…  \*.jsp, \*.css, \*.js, … |
| 02 | controller | This package used to contain controller file.  <Object>Controller.java |
| 03 | model | This package used to contain model file.  <Object>.java |
| 04 | data | This package used to contain DAO file, connect between database with model.  <Object>DAO.java |

## 2. Database Design

### a. Database Schema



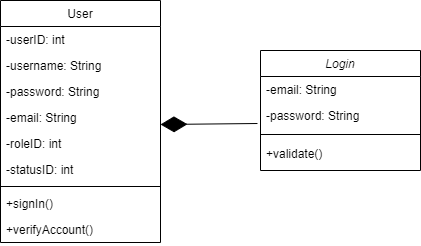
### b. Table Description

|  |  |  |
| --- | --- | --- |
| **No** | **Table** | **Description** |
| 01 | FQAs | Store all common question and answer |
| 02 | products | Store product information |
| 03 | productStatus | Store product’s status information |
| 04 | productImg | Store product image link |
| 05 | reviewReplies | Store staff reply to customer |
| 06 | review | Store user review and information |
| 07 | orders | Store orders information |
| 08 | orderDetail | Store order detailed information |
| 09 | orderStatus | Store order current status |
| 10 | category | Store category information |
| 11 | users | Store user information |
| 12 | userStatus | Store user account status |
| 13 | role | Store roles in system |
| 14 | notifications | Store user notifications |
| 15 | Cart | Store user cart |
| 16 | Blog | Store written blog |
| 17 | notificationsDetail | Detail of notification |
| 18 | productKey | Store key of product |
| 19 | promotionCode | Store promotion code for discount |
| 20 | subscriber | Store information of customer subscribe want receive exclusive update from mail |
| 21 | email | Store email send to users |
| 22 | emailReceiver | List user receive email (auto) |

# II. Code Designs

## 1. User Sign In

### a. Class Diagram



### b. Class Specifications

***SigninClass***

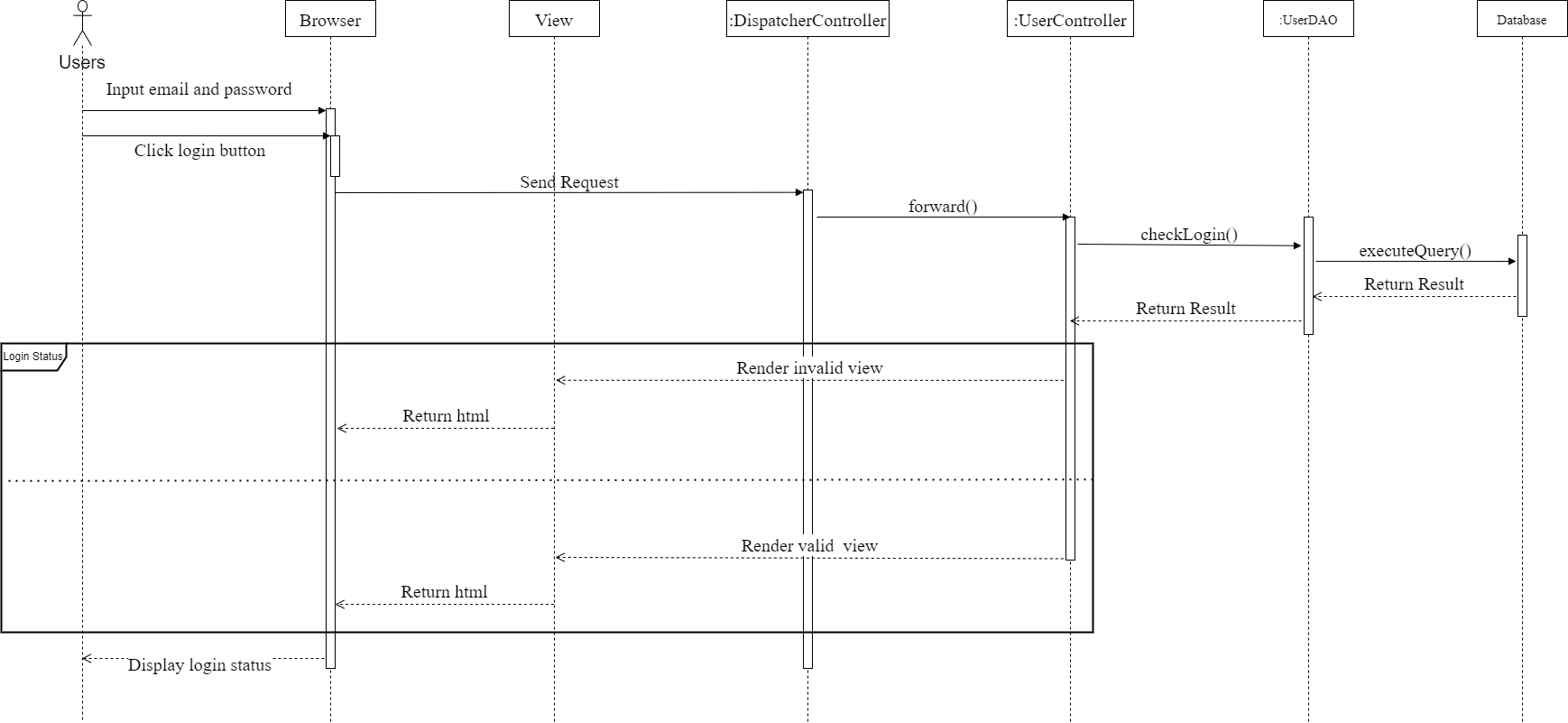
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Validate* | *Check user input correct email syntax* |

***UserClass***

***Class Methods***

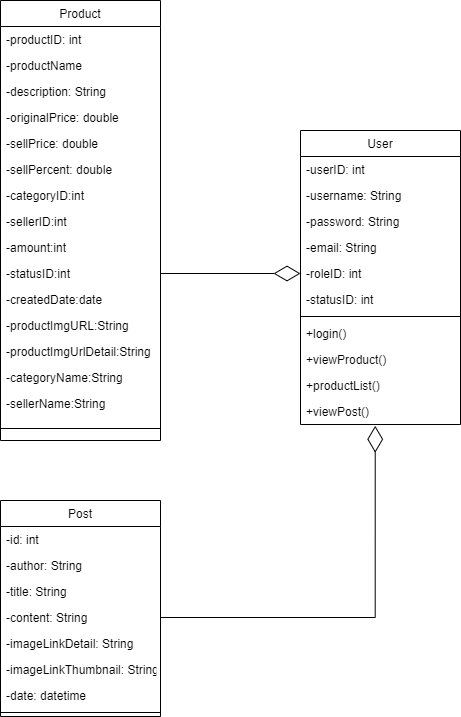
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |
| *02* | *VerifyLogin* | *After register user must verify account by check email* |

### c. Sequence Diagram(s)

.

## 2. Homepage

### a. Class Diagram



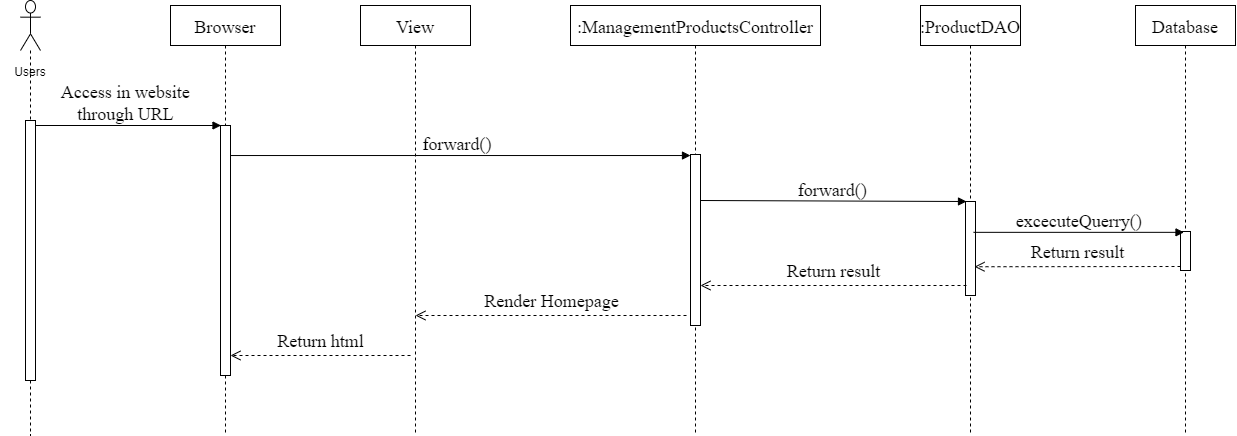
### b. Class Specifications

***UsersClass***

***Class Methods***

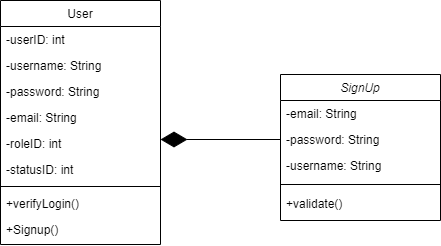
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |
| *02* | *productList()* | *View list product in homepage* |
| *03* | *viewProduct()* | *View product detail from homepage* |
| *03* | *viewPost ()* | *View recent post in homepage* |

### c. Sequence Diagram(s)



## 3. User Signup

### a. Class Diagram



### b. Class Specifications

***UsersClass***

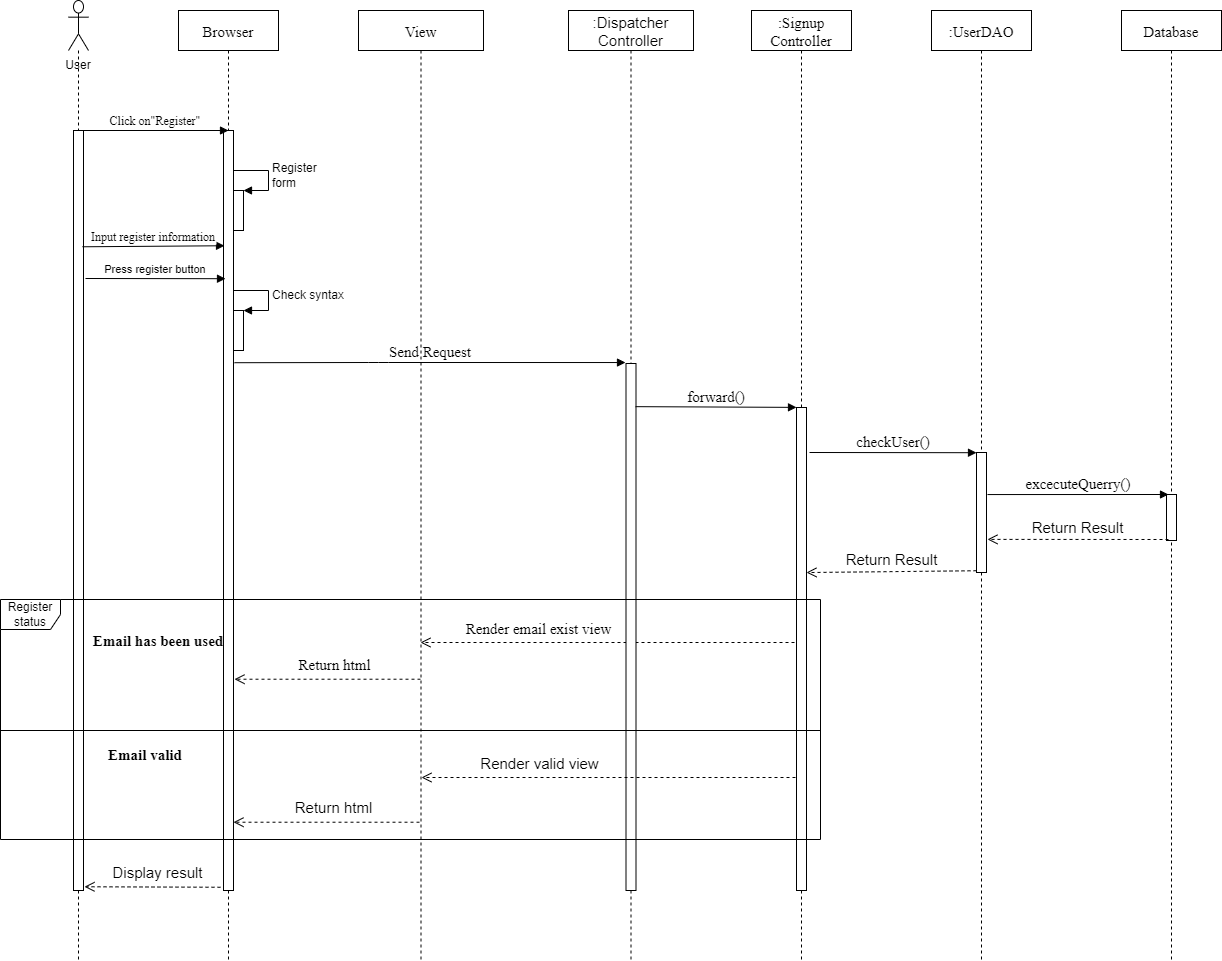
***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *signup* | *First time use website* |
| *02* | *Login* | *Input correct username and password to login in to web* |
| *03* | *Verifylogin* | *After register user must verify account by check email* |

***SignupClass***

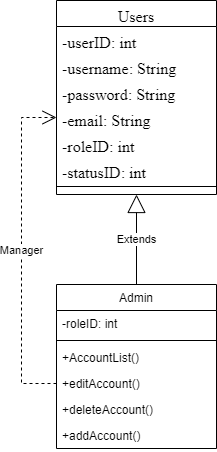
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Validate* | *Check user input correct email syntax* |

### c. Sequence Diagram(s)



## 4. Account Management

### a. Class Diagram



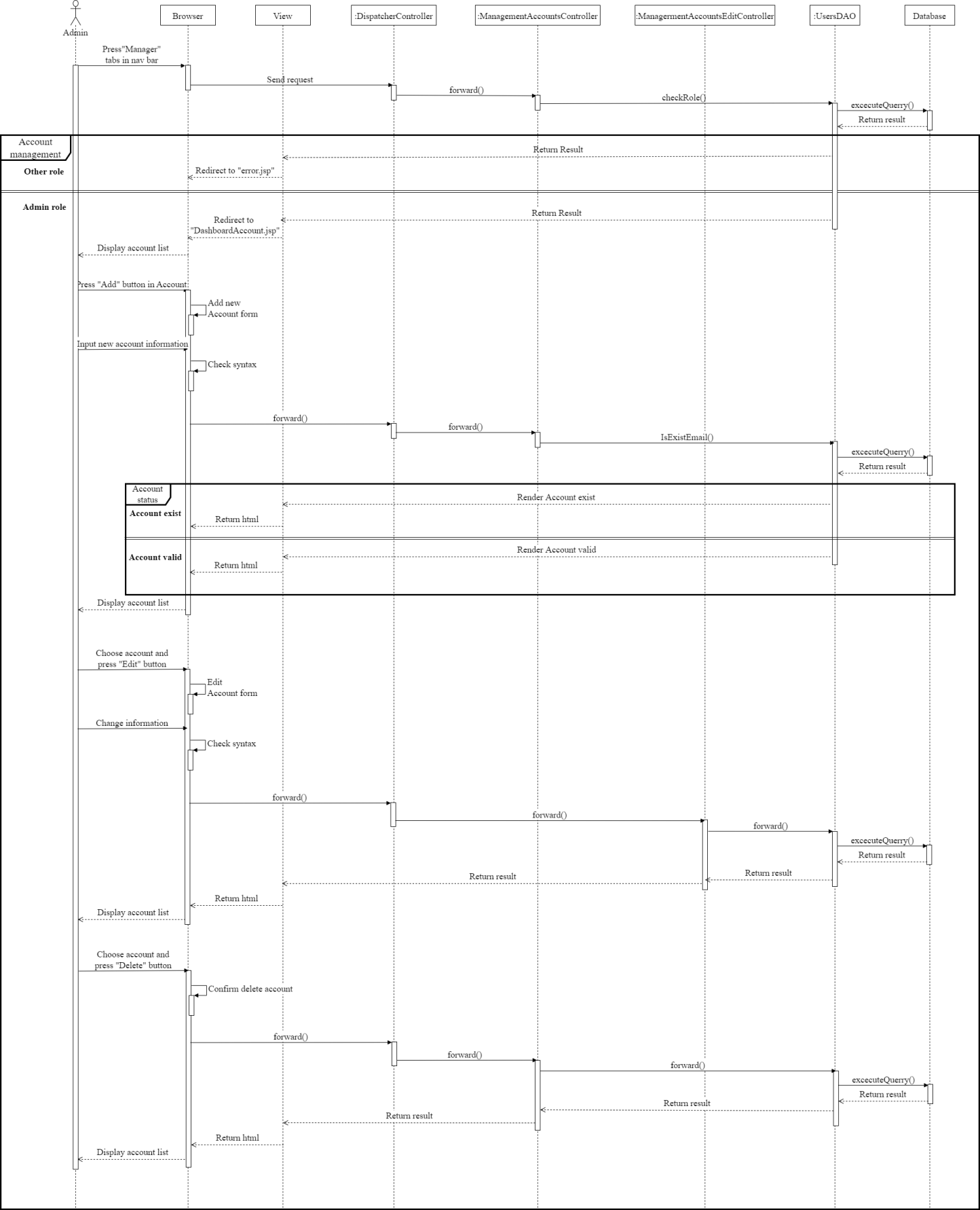
### b. Class Specifications

***AdminClass***

***Class Methods***

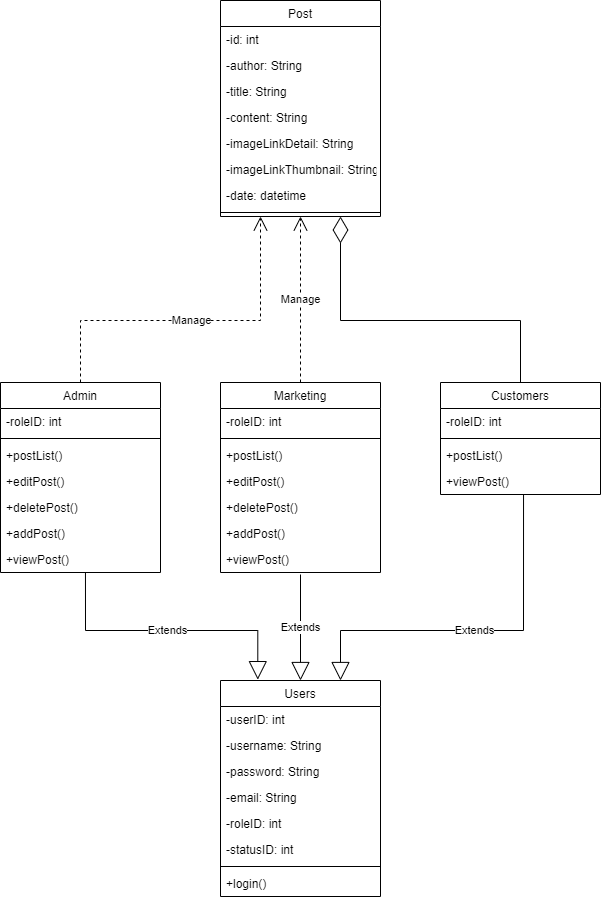
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Edit Account* | *Edit detail account information (role, status)* |
| *02* | *Delete Account* | *Delete account permanent* |
| *03* | *Add Account* | *Add new account for anyrole* |
| *04* | *Account list* | *View list all account* |

### c. Sequence Diagram(s)



## 5. Post Management

### a. Class Diagram



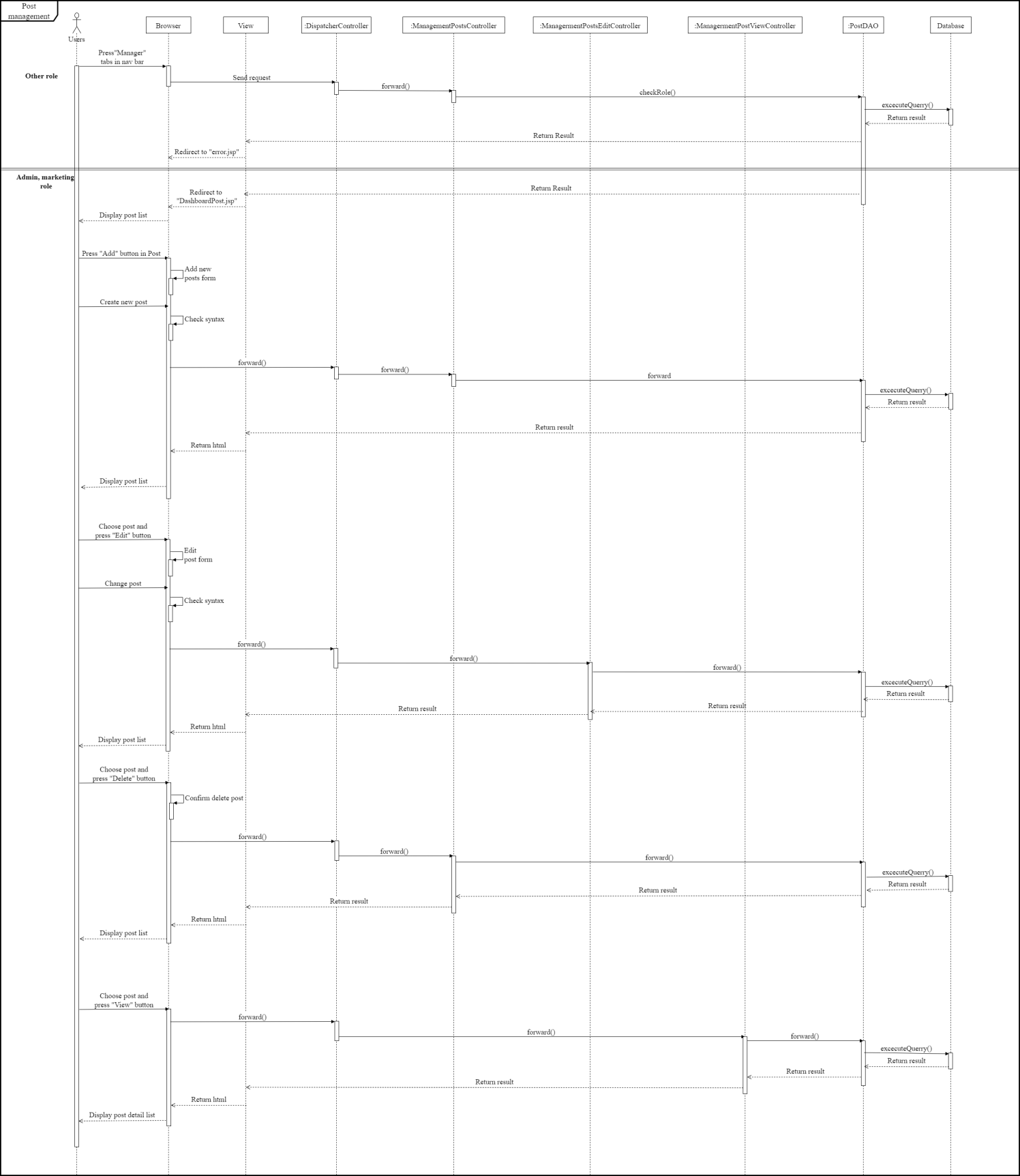
### b. Class Specifications

***Admin class/ marketing class***

***Class Methods***

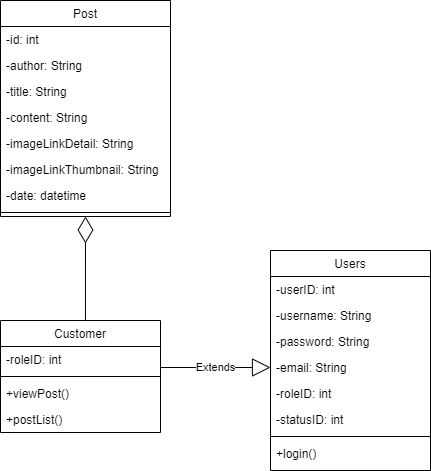
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Post* | *View detail of one specific post* |
| *02* | *Edit Post* | *Edit detail post* |
| *03* | *Delete Post* | *Delete post* |
| *04* | *Add Post* | *Add new post detail* |
| *05* | *Postlist* | *View list all post* |

### c. Sequence Diagram(s)



## 6. Post list and detail

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

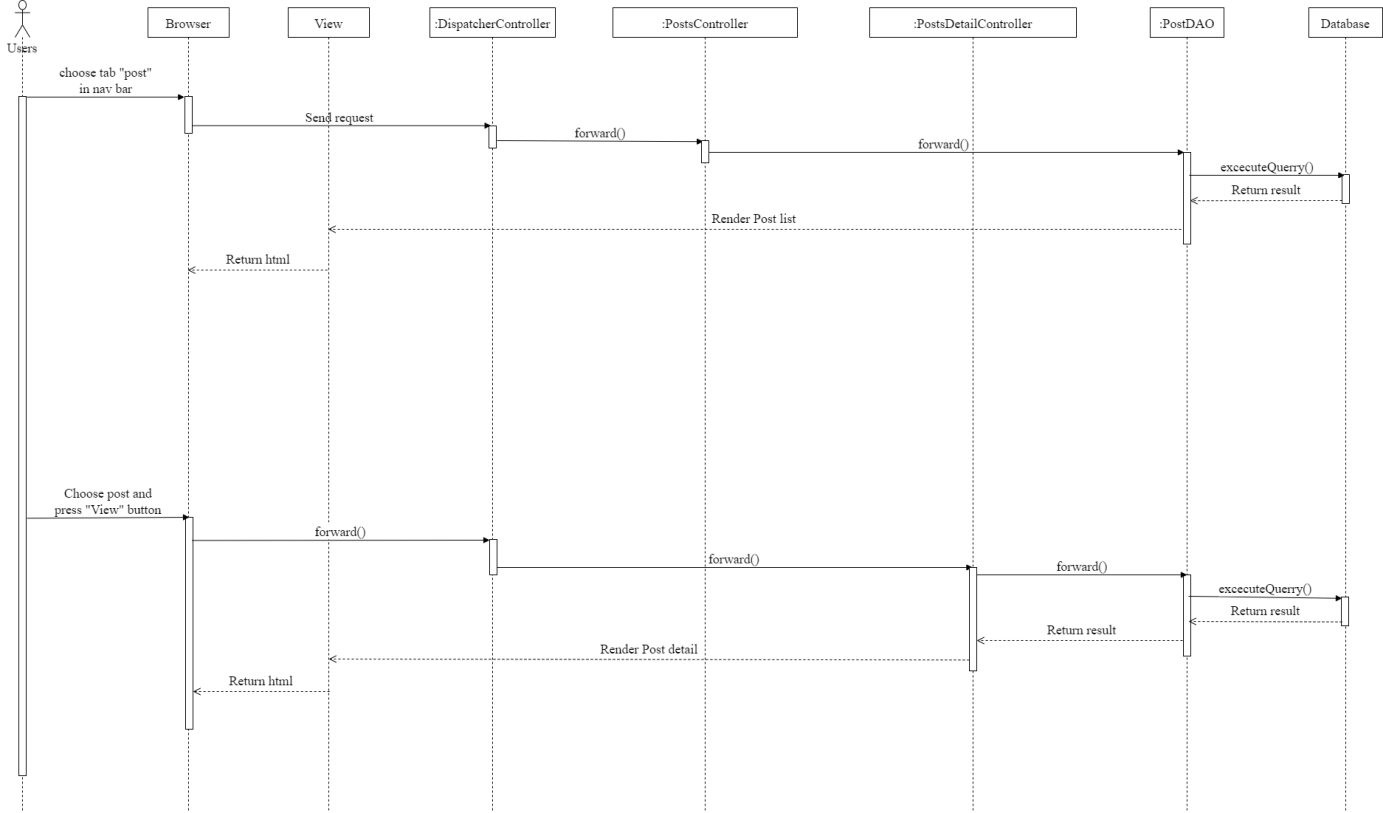
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Post* | *View detail of one specific post* |
| *02* | *Postlist* | *View list all post* |

### c. Sequence Diagram(s)



## 7. Logout

### a. Class Diagram

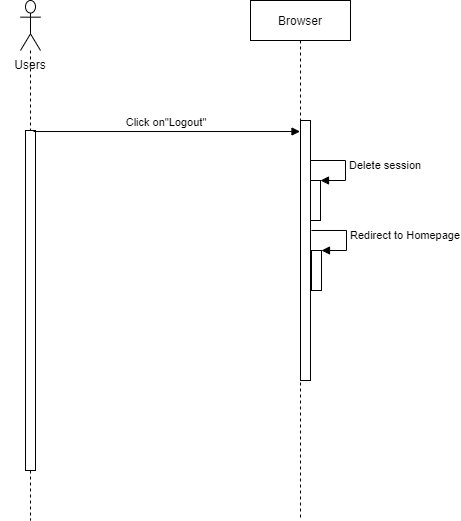
### b. Class Specifications

***LogoutClass***

***Class Methods***

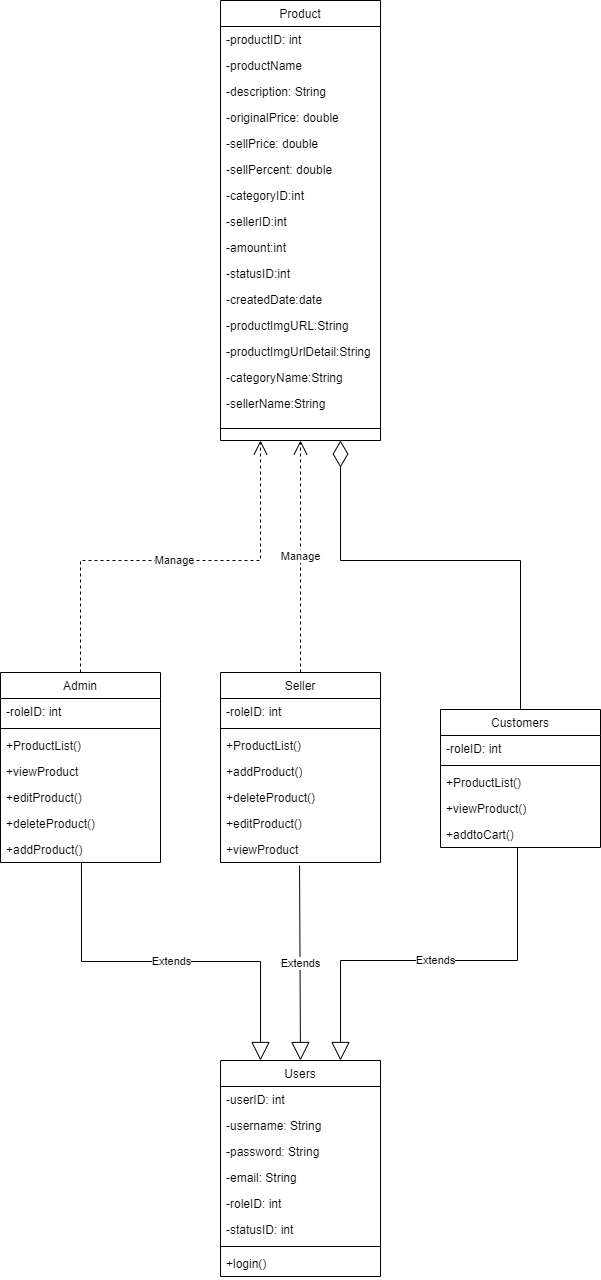
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Logout* | *Delete user from browser than redirect to homepage* |

### c. Sequence Diagram(s)



## 8. Product Management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

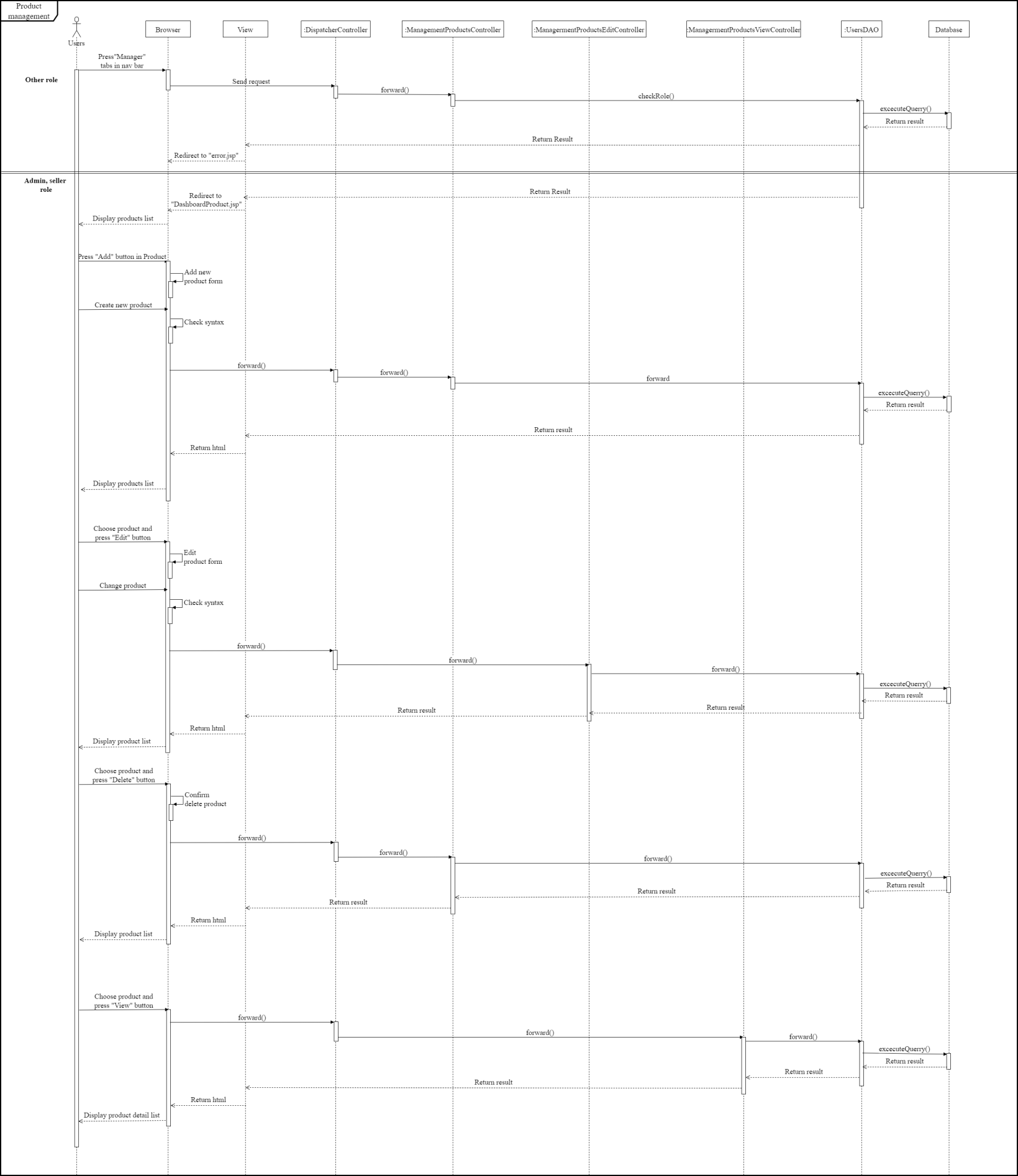
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Product* | *View detail of one specific product* |
| *02* | *Productlist* | *View list all product* |

***Admin/seller class***

***Class Methods***

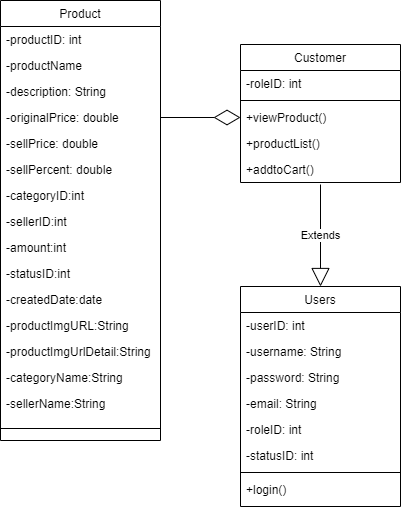
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Product* | *View detail of one specific product* |
| *02* | *Edit Product* | *Edit detail Product* |
| *03* | *Delete Product* | *Delete product* |
| *04* | *Add Product* | *Add new post product* |
| *05* | *Productlist* | *View list all product* |

### c. Sequence Diagram(s)



## 9. Product list and detail

### a. Class Diagram



### b. Class Specifications

***CustomersClass***

***Class Methods***

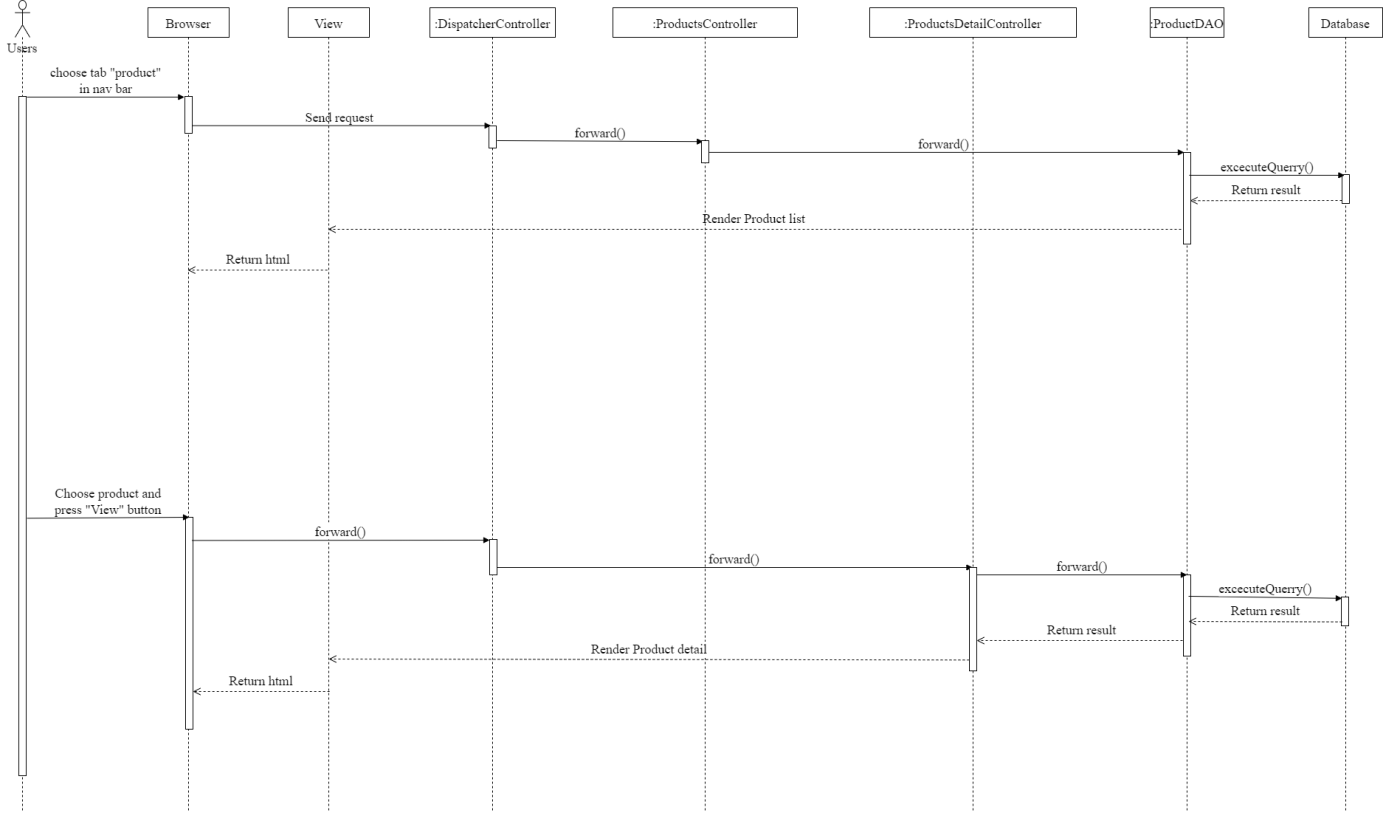
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

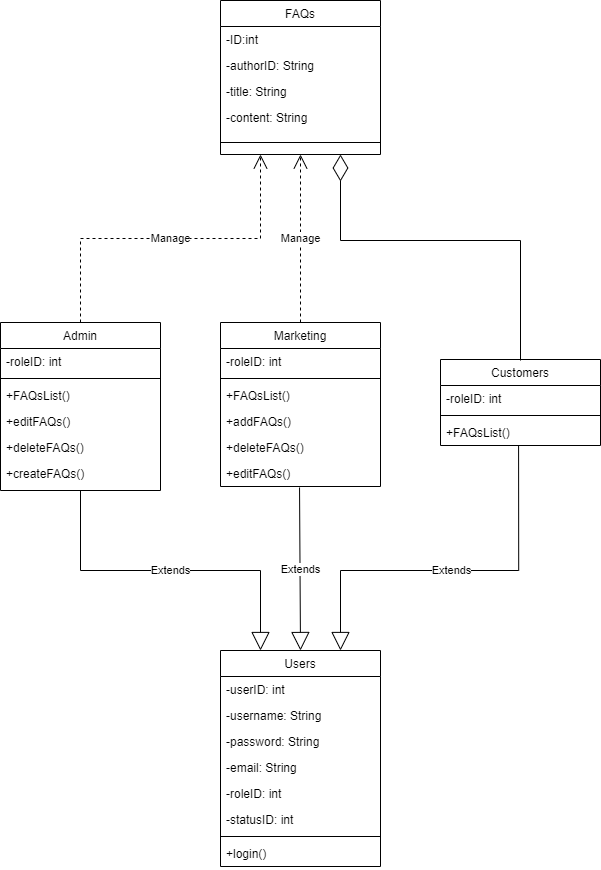
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Product* | *View detail of one specific post* |
| *02* | *Productlist* | *View list all post* |
| *02* | *addtoCart* | *Add product to cart* |

### c. Sequence Diagram(s)



## 10. FAQs Management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

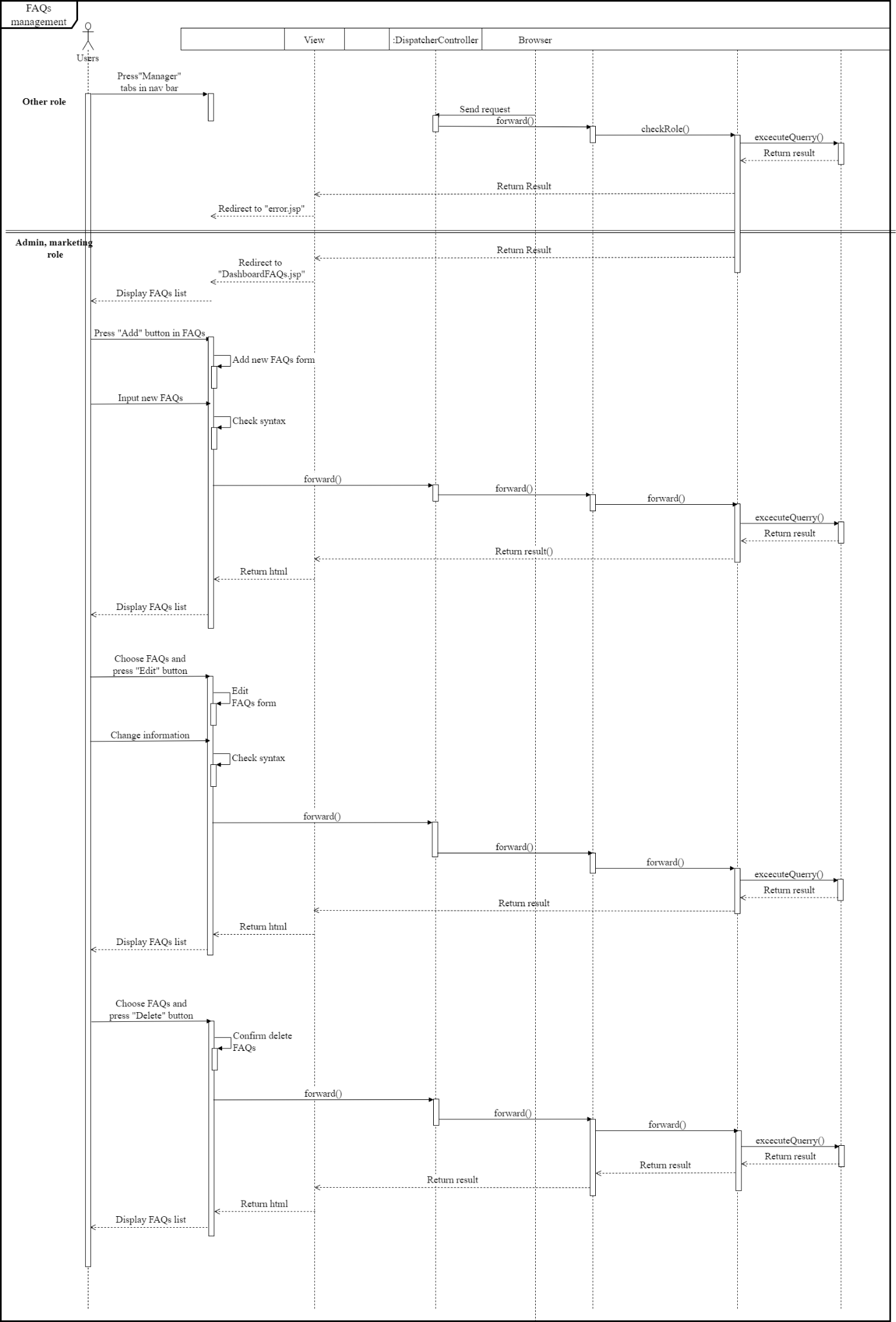
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *FAQs list* | *View list FAQs* |

***Admin/marketing class***

***Class Methods***

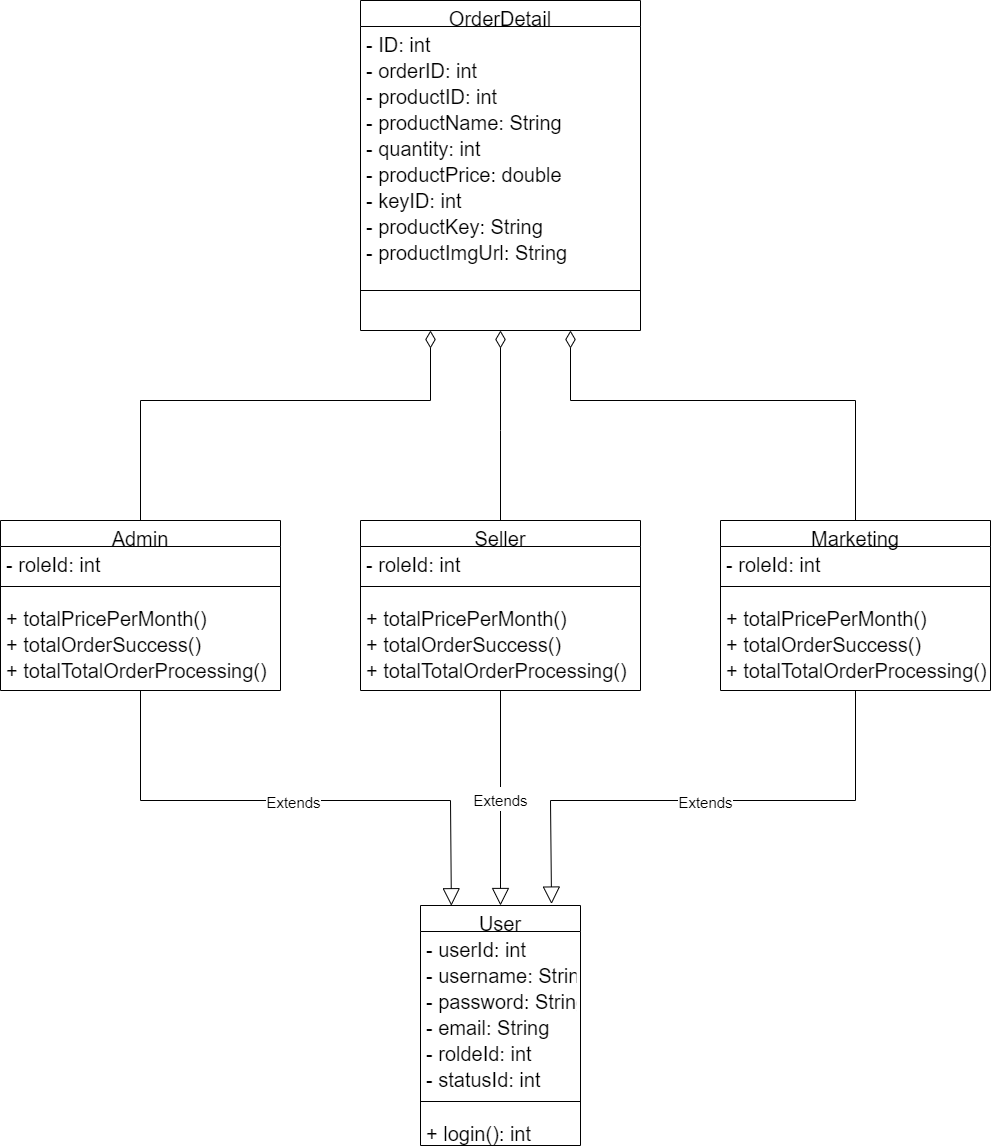
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Edit FAQs* | *Edit detail Product* |
| *02* | *Delete FAQs* | *Delete product* |
| *03* | *Add FAQs* | *Add new post product* |
| *04* | *FAQs list* | *View list all product* |

### c. Sequence Diagram(s)



## 11. CMS dashboard

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

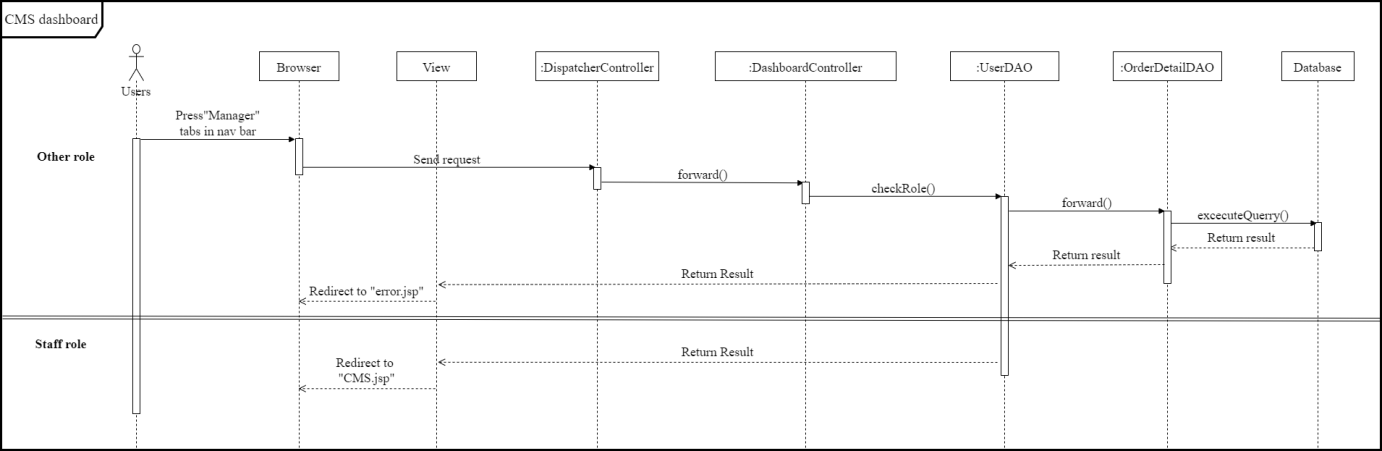
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input the correct username and password to login into web* |

***Admin/Seller/Marketing class***

***Class Methods***

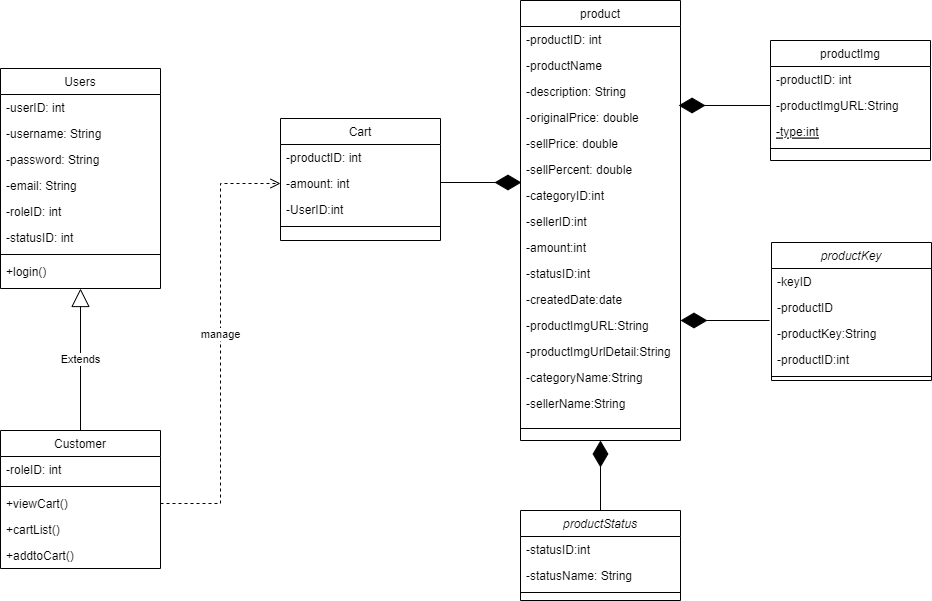
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *totalPricePerMonth()* | *Show the entry list for 12 months* |
| *02* | *totalOrderSuccess()* | *A Total number of successful orders* |
| *03* | *totalTotalOrderProcessing()* | *A Total number of pending orders* |

### c. Sequence Diagram(s)



## 12. Cart

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

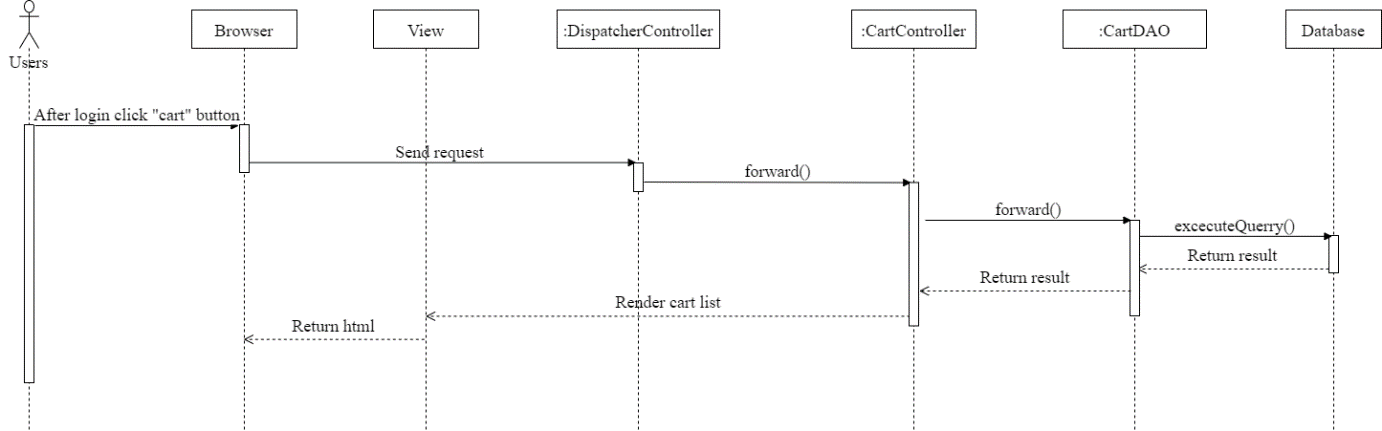
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

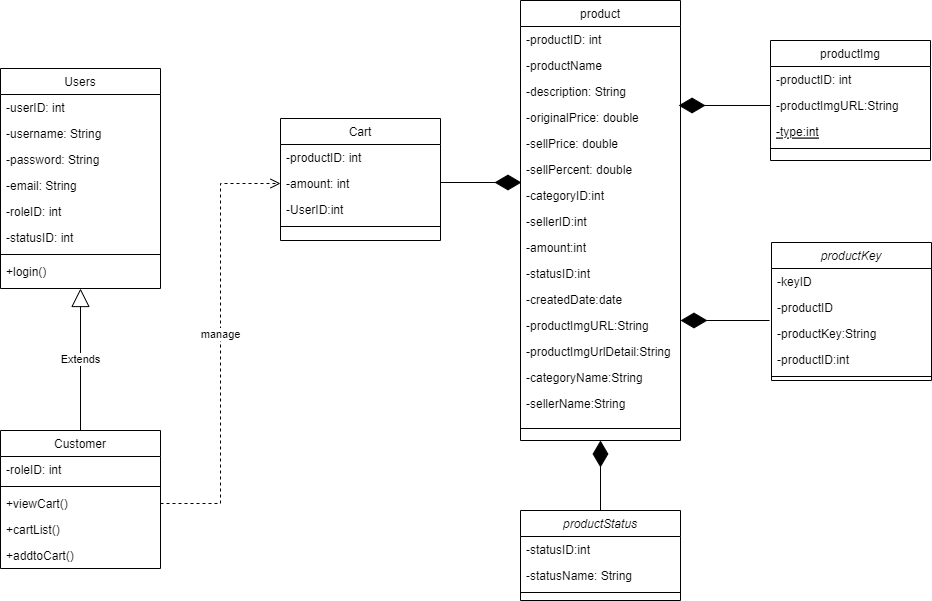
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Cart* | *View detail of one specific product in cart* |
| *02* | *Cartlist* | *View list all cart customer has choose* |
| *02* | *addtoCart* | *Add product to cart* |

### c. Sequence Diagram(s)



## 13. Add to cart

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

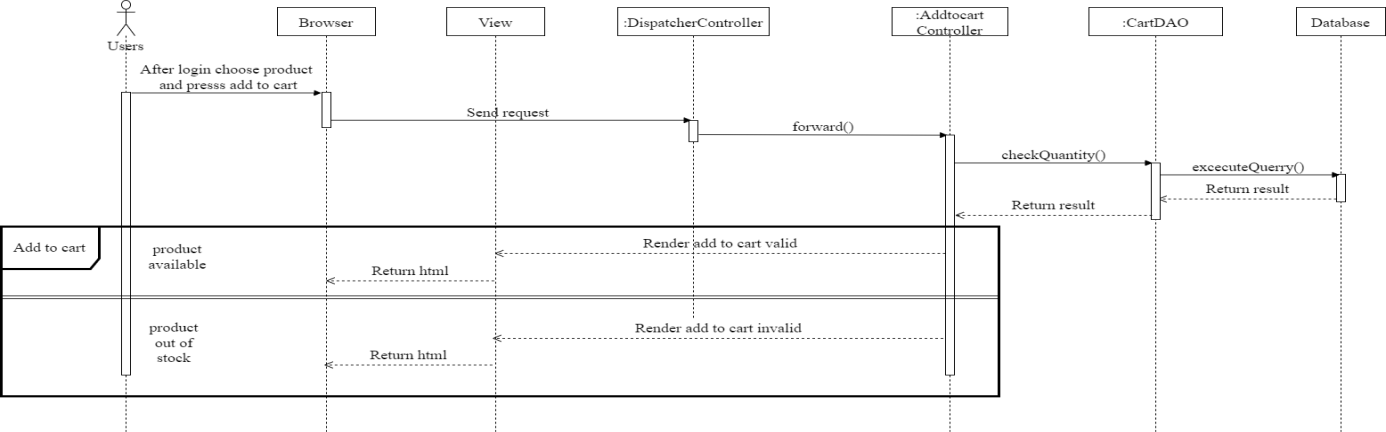
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***CustomersClass***

***Class Methods***

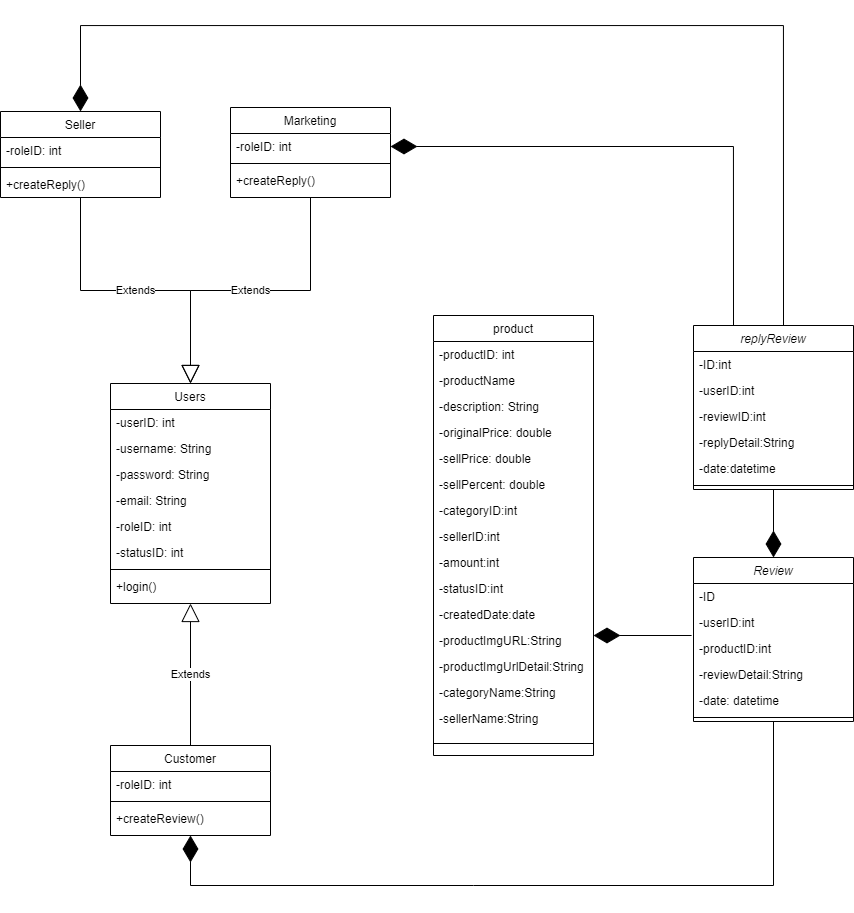
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Cart* | *View detail of one specific product in cart* |
| *02* | *Cartlist* | *View list all cart customer has choose* |
| *02* | *addtoCart* | *Add product to cart* |

### c. Sequence Diagram(s)



## 14. Review product

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

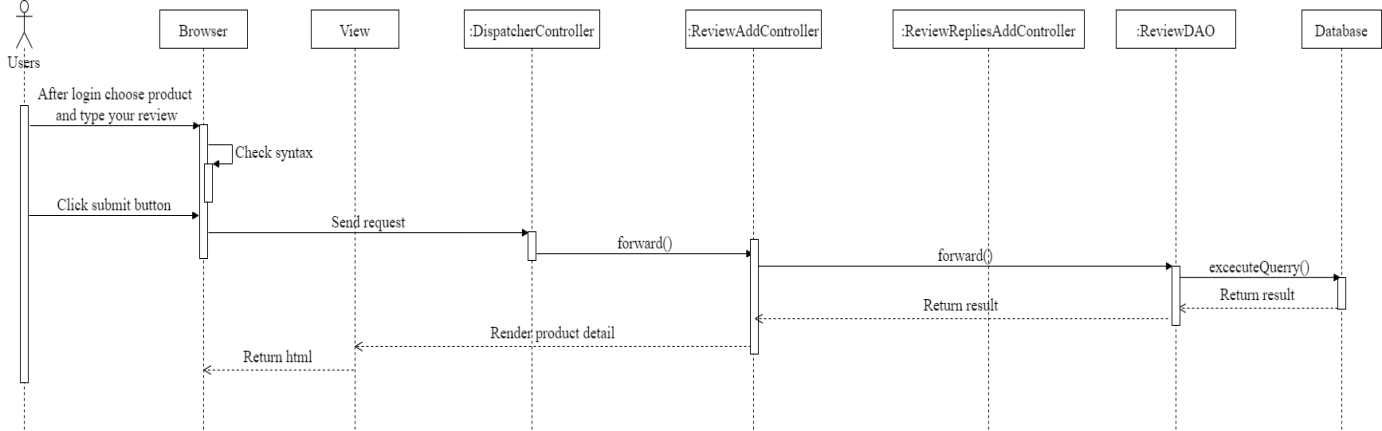
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Seller/marketing class***

***Class Methods***

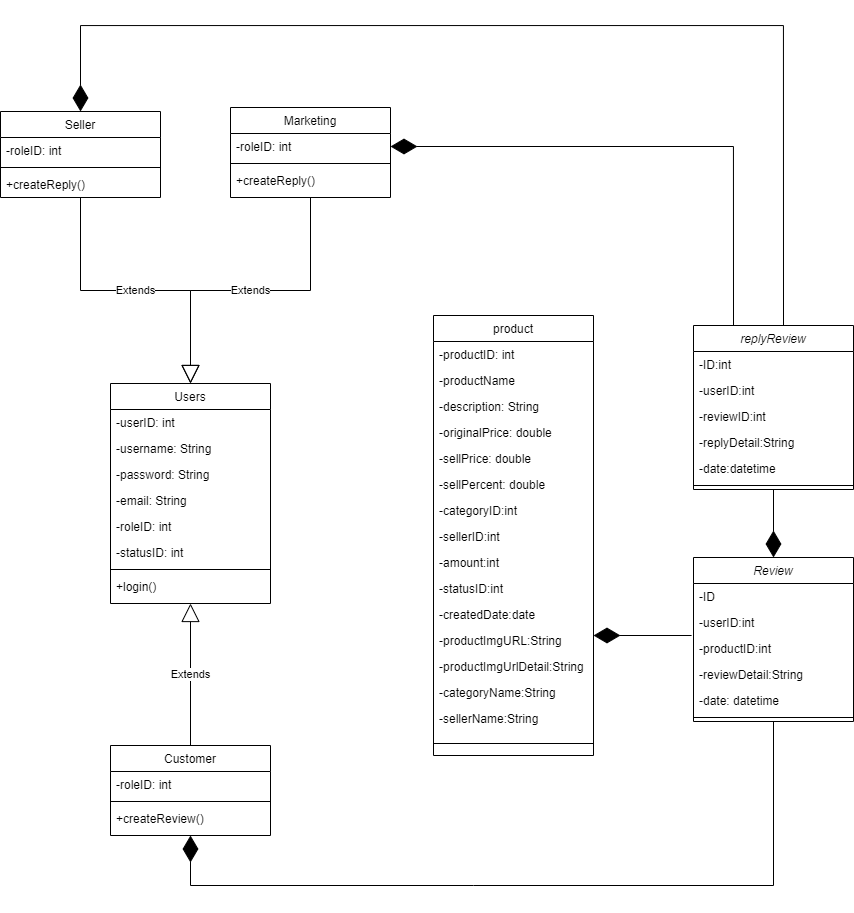
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *createReview* | *Add new review for product* |

### c. Sequence Diagram(s)



## 15. Reply review product

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

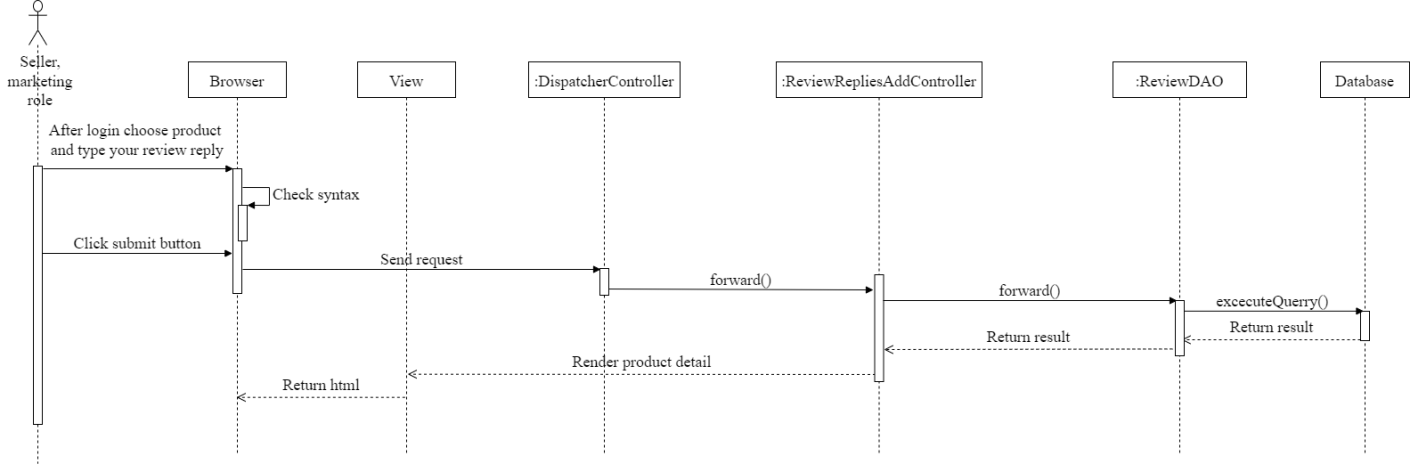
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Seller/marketing class***

***Class Methods***

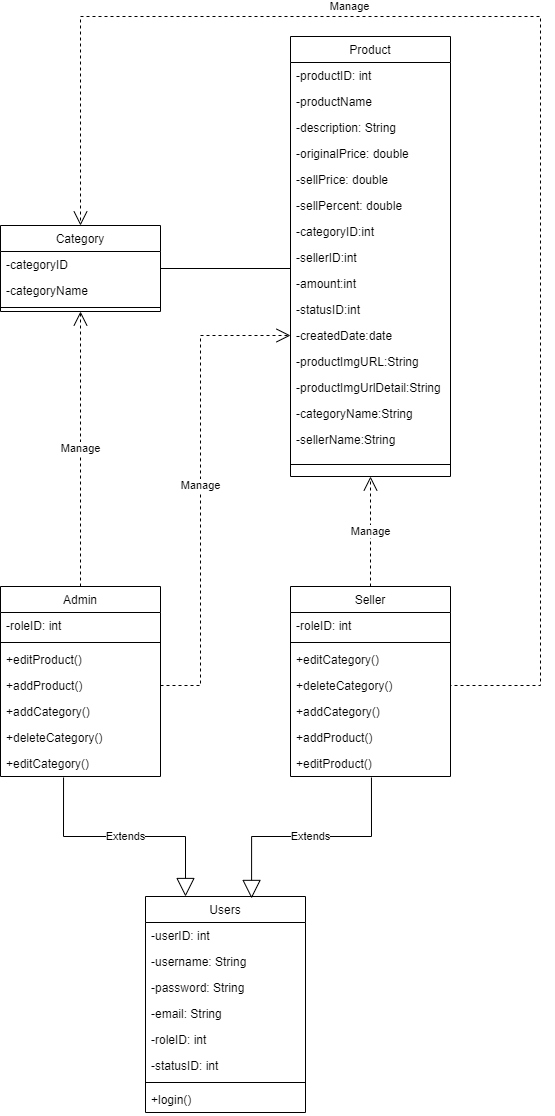
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *createReview* | *Add new review for product* |

### c. Sequence Diagram(s)



## 16. Category management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

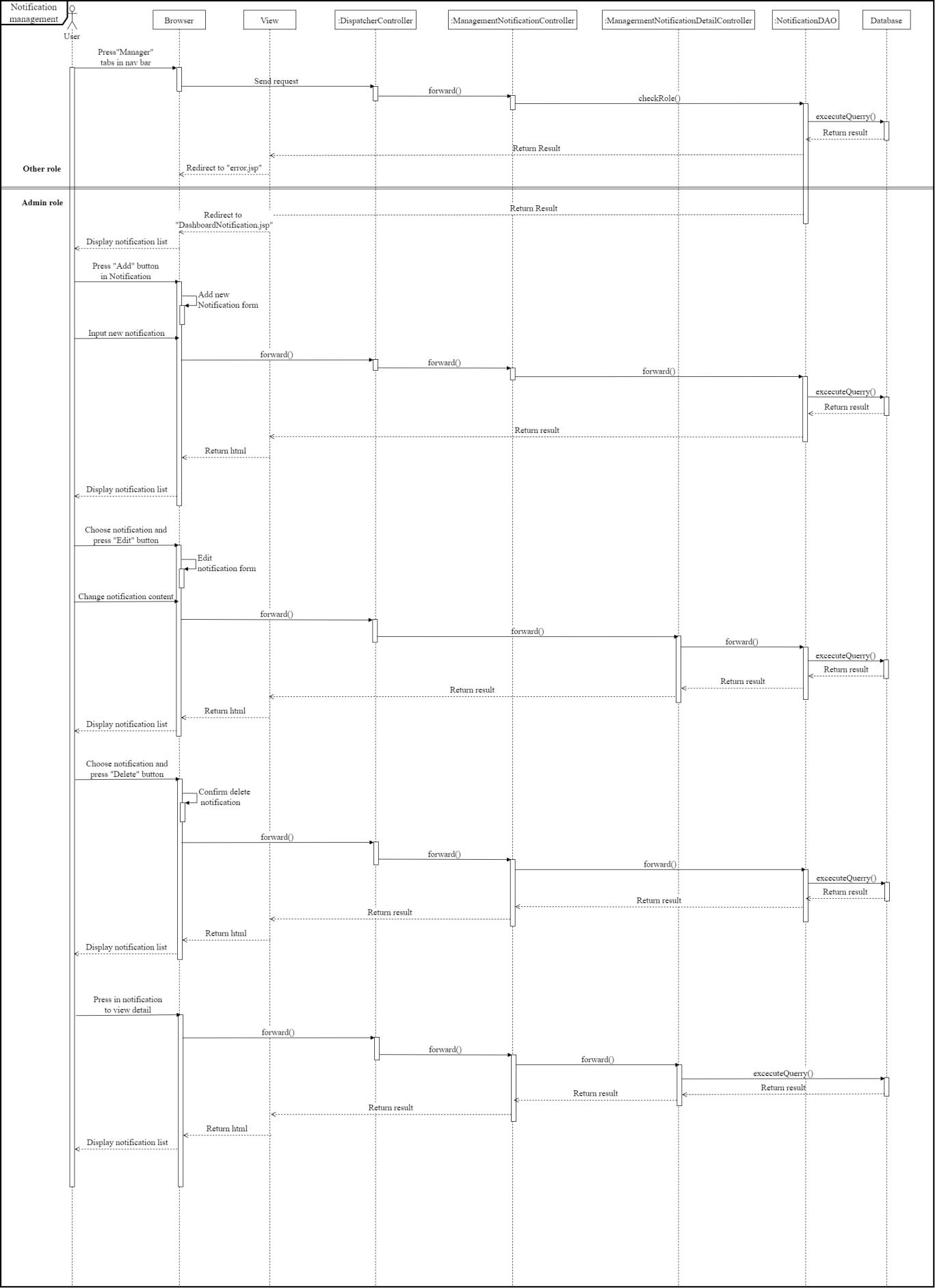
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Seller/admin class***

***Class Methods***

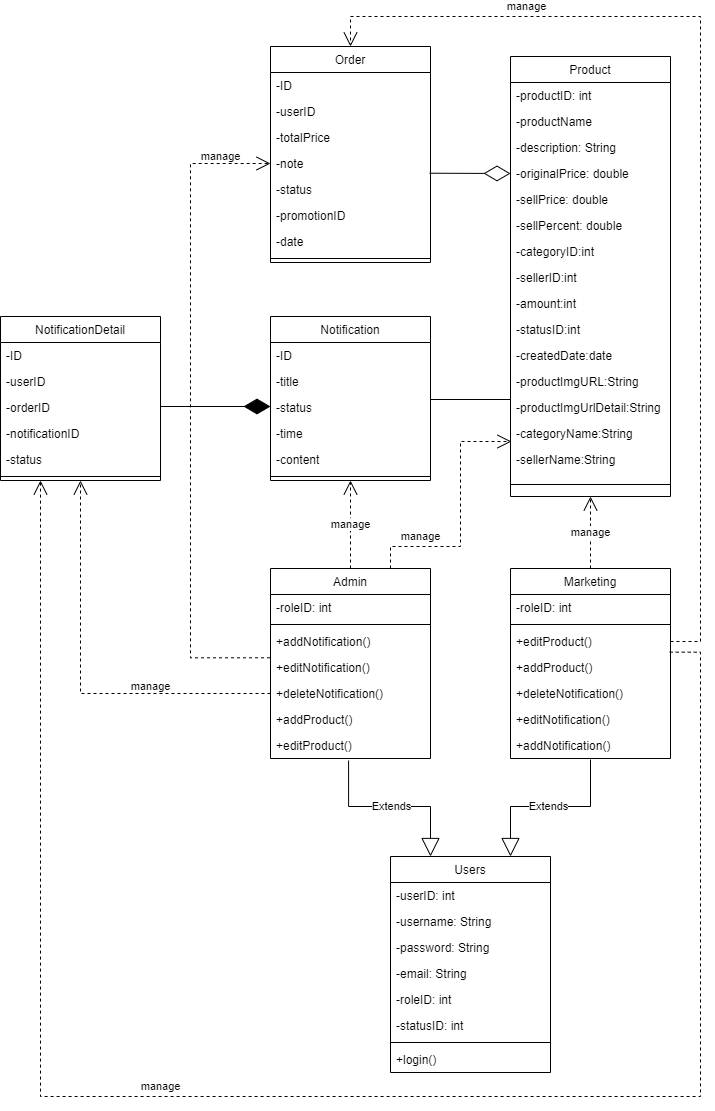
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *editProduct* | *Edit product information* |
| *02* | *addProduct* | *Add new product* |
| *03* | *addCategory* | *Add new category for product* |
| *04* | *editCategory* | *Edit information of category for product* |
| *05* | *deleteCategory* | *Delete category* |

### c. Sequence Diagram(s)



## 17. Notification management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

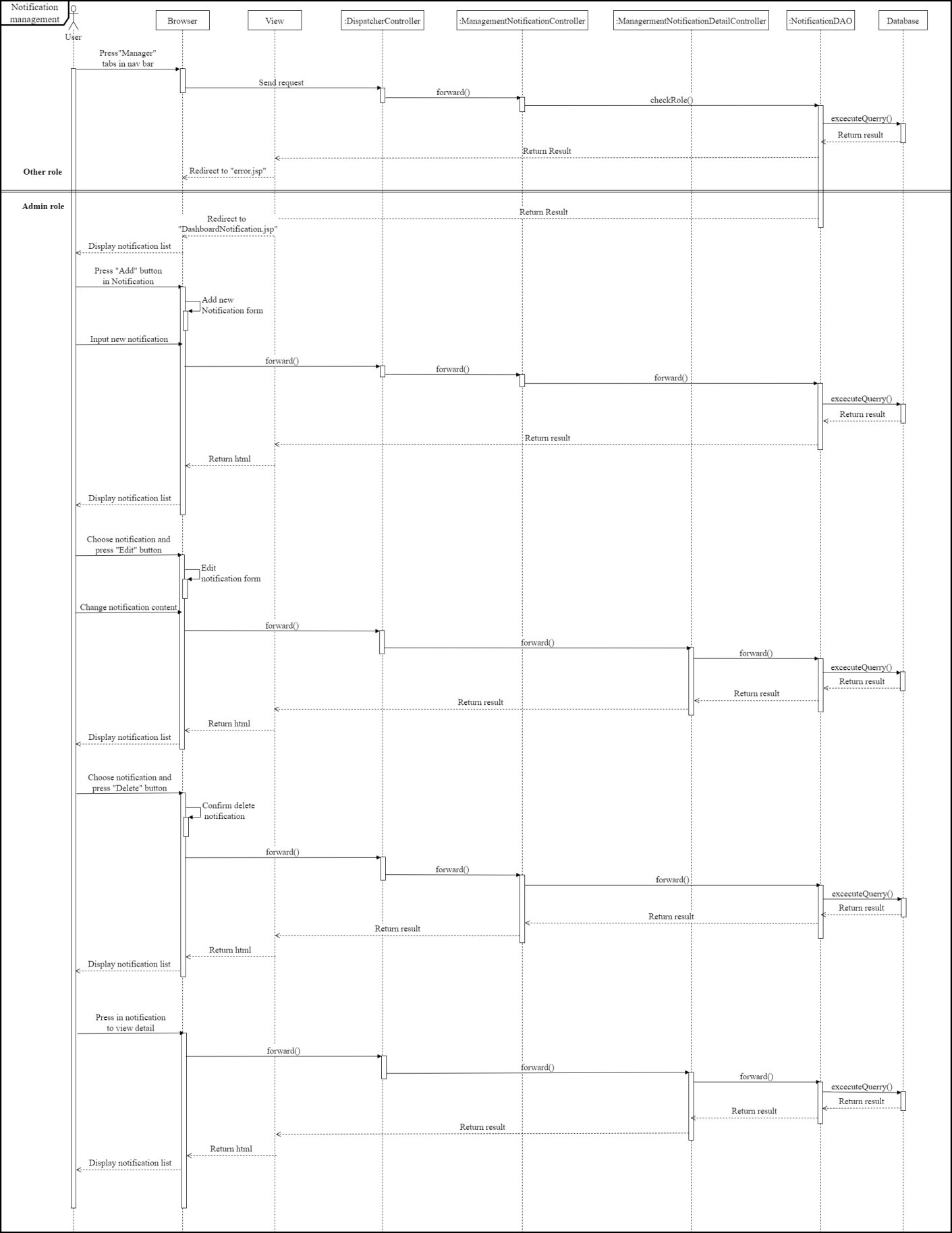
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Marketing/admin class***

***Class Methods***

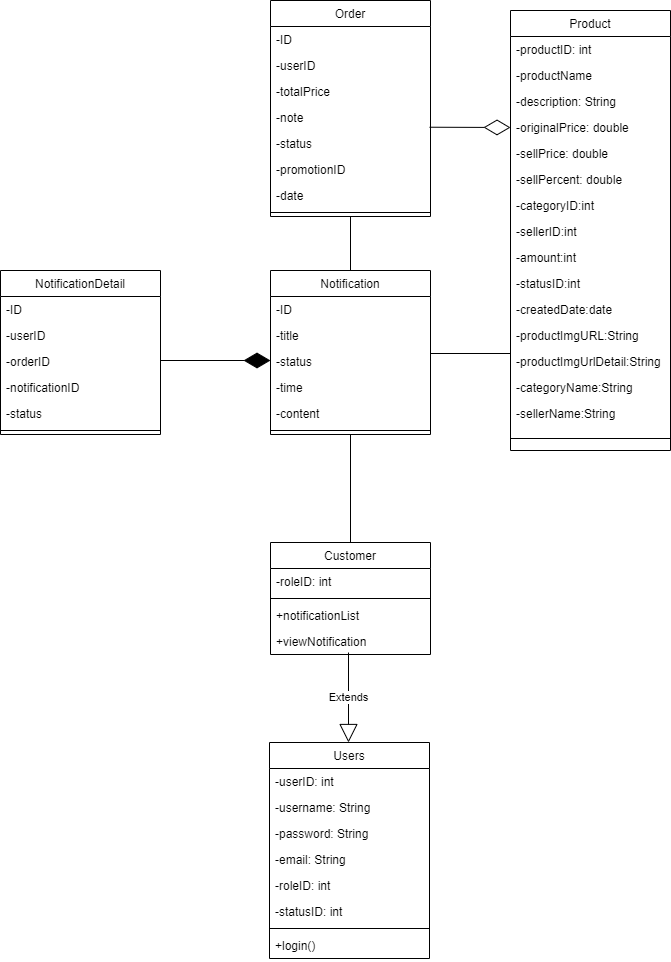
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View Notification lists* | *View Notification Management* |
| *02* | *Create Notification* | *Add new Notification for user* |
| *03* | *Detail Notification* | *Detail information of Notification* |
| *04* | *Delete Notification* | *Delete Notification* |

### c. Sequence Diagram(s)



## 18. Notification list and detail

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

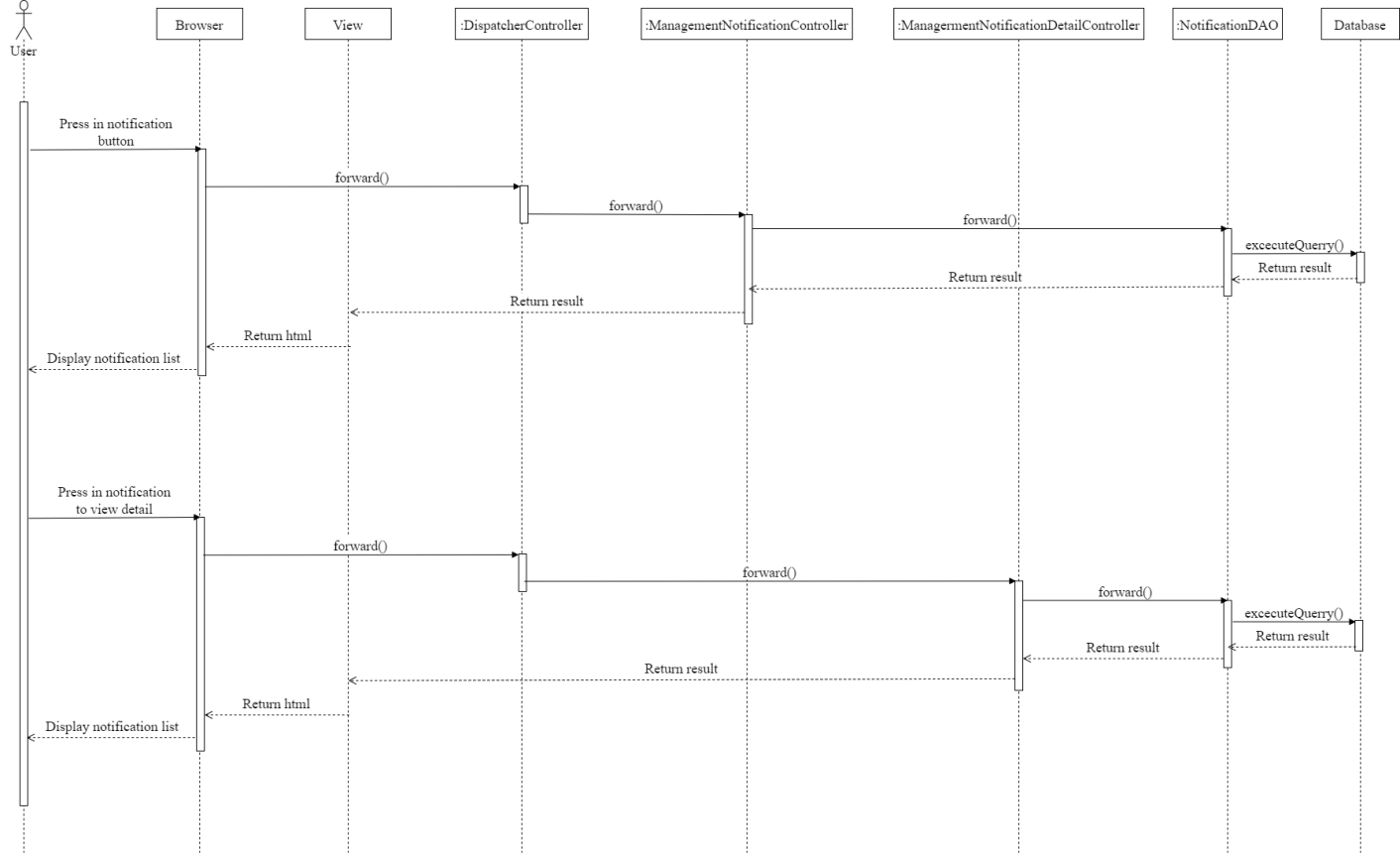
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Marketing/admin class***

***Class Methods***

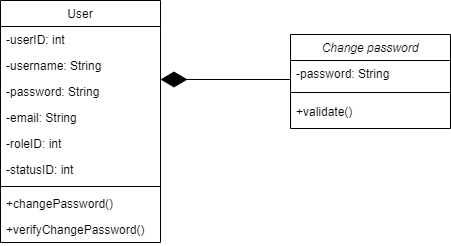
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *getNotificationByUserId* | *Get Notification of User* |
| *02* | *getNotificationActiveByUserId* | *Get Notification of User is not Read* |
| *03* | *getNotificationById* | *Get Notification Detail Information* |
| *04* | *updateNotificationDetailStatus* | *Change status of Notification to Read* |

### c. Sequence Diagram(s)



## 19. Change Password

### a. Class Diagram



### b. Class Specifications

***UsersClass***

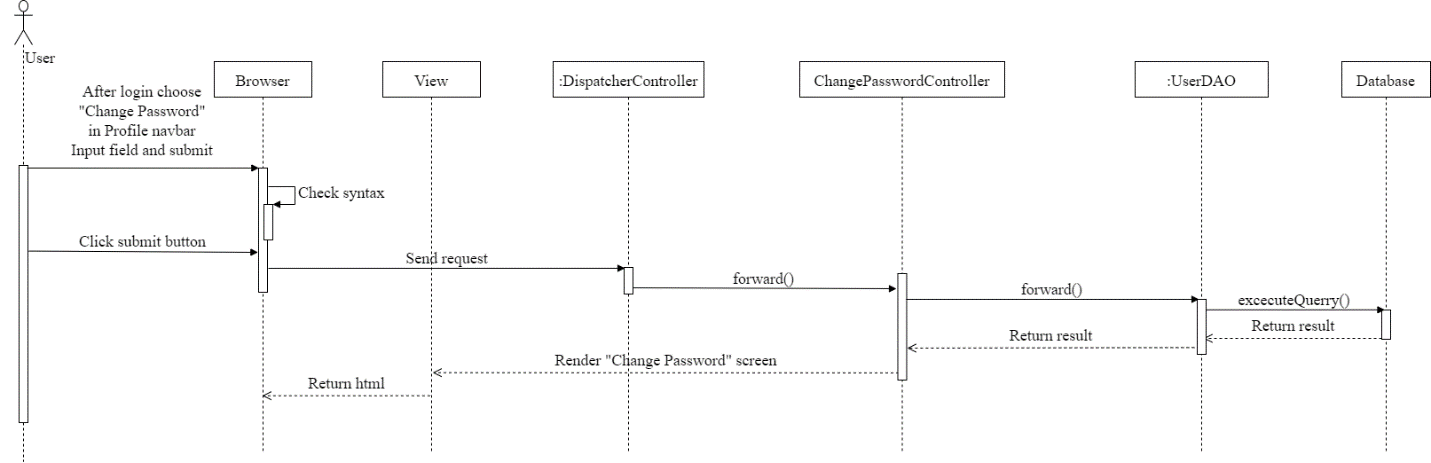
***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *changePassword* | *Input old password and, new password twice and submit* |
| *02* | *verifyChangePassword* | *Check condition of old password and new password* |

***ChangePasswordClass***

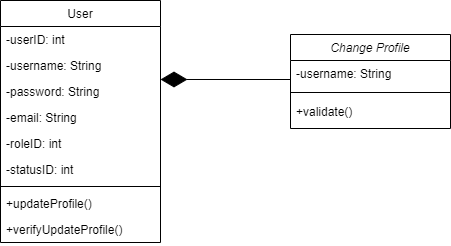
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Validate* | *Check user input old,new password correct syntax* |

### c. Sequence Diagram(s)



## 20. Edit Profile

### a. Class Diagram



### b. Class Specifications

***UsersClass***

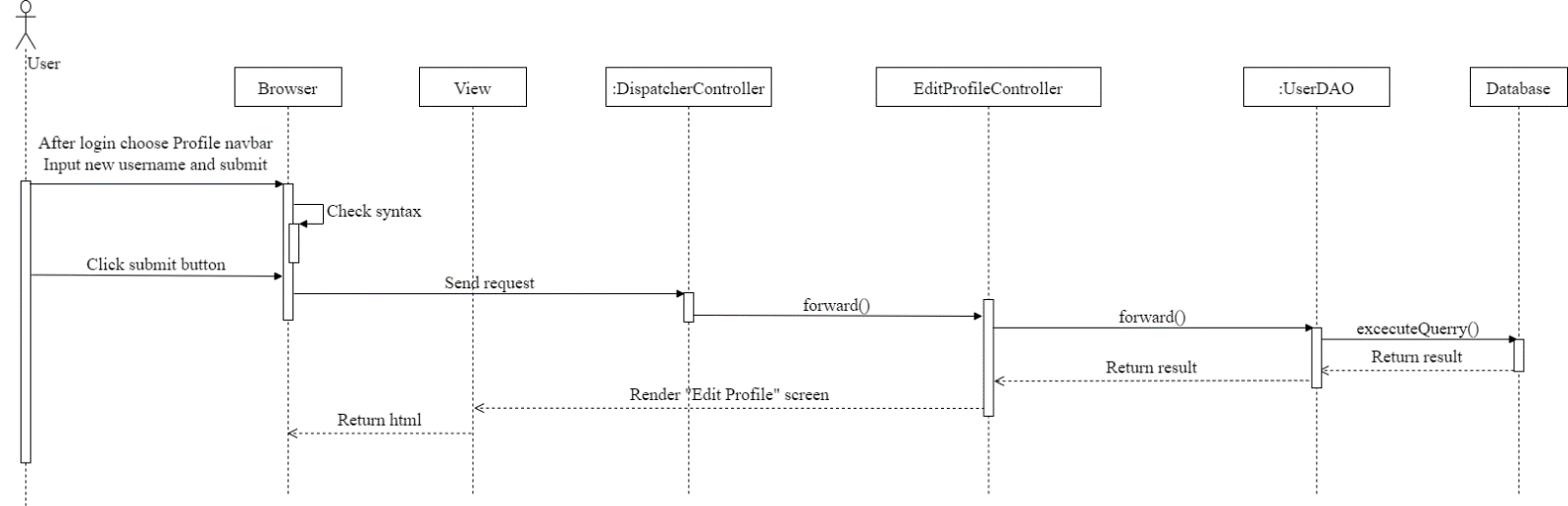
***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *updateProfile* | *Input new username and submit* |
| *02* | *verifyUpdateProfile* | *Check condition of new username* |

***EditProfileClass***

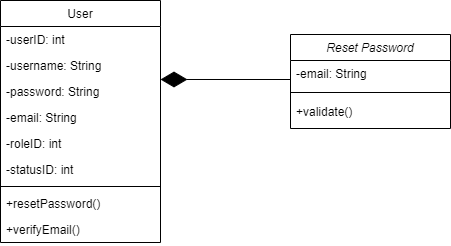
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Validate* | *Check user input new username correct syntax* |

### c. Sequence Diagram(s)



## 21. Reset Password

### a. Class Diagram





### b. Class Specifications

***UsersClass***

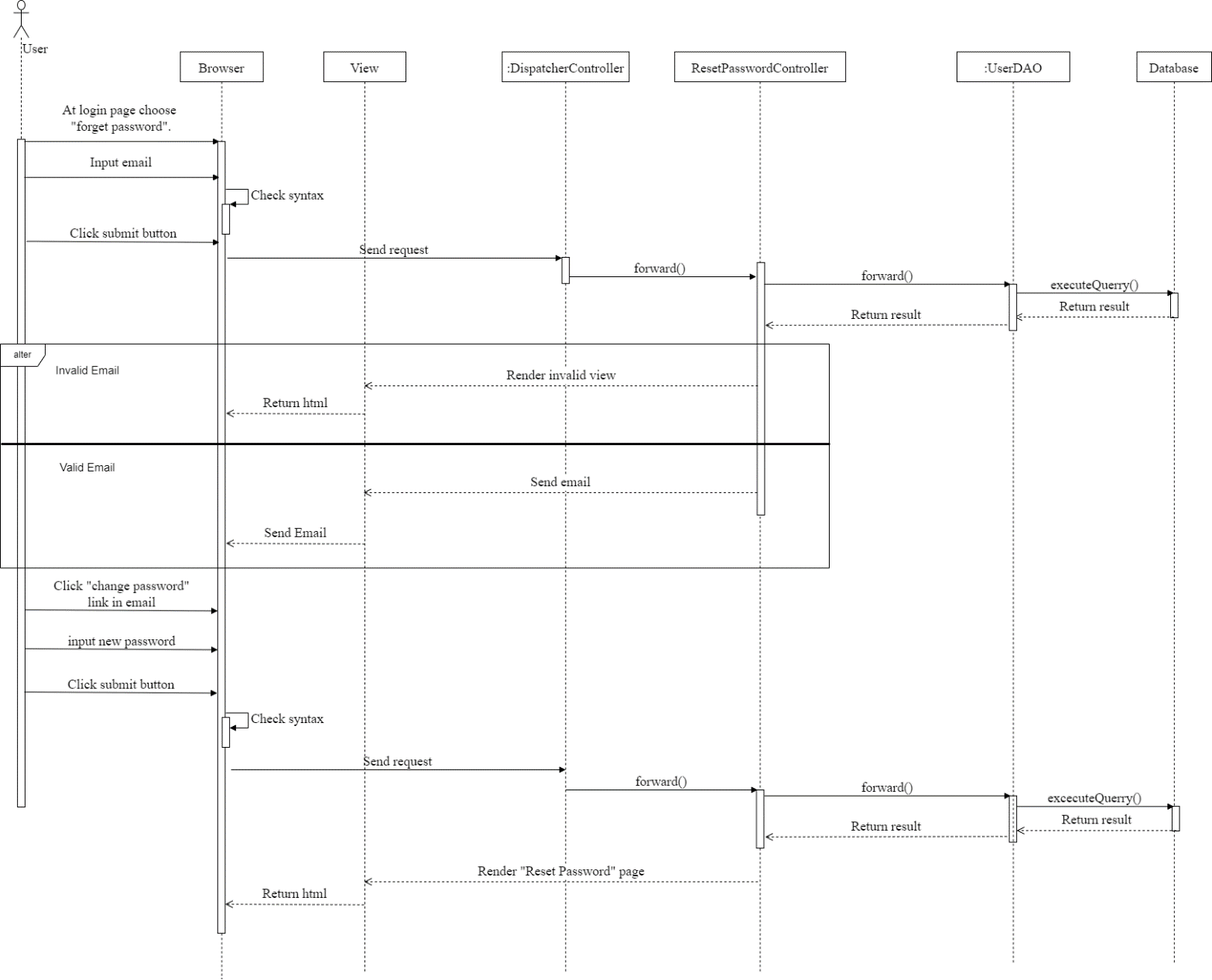
***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *resetPassword* | *Input email and submit to get reset password link* |
| *02* | *verifyEmail* | *Check condition of email* |

***ResetPasswordClass***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Validate* | *Check user input email correct syntax* |

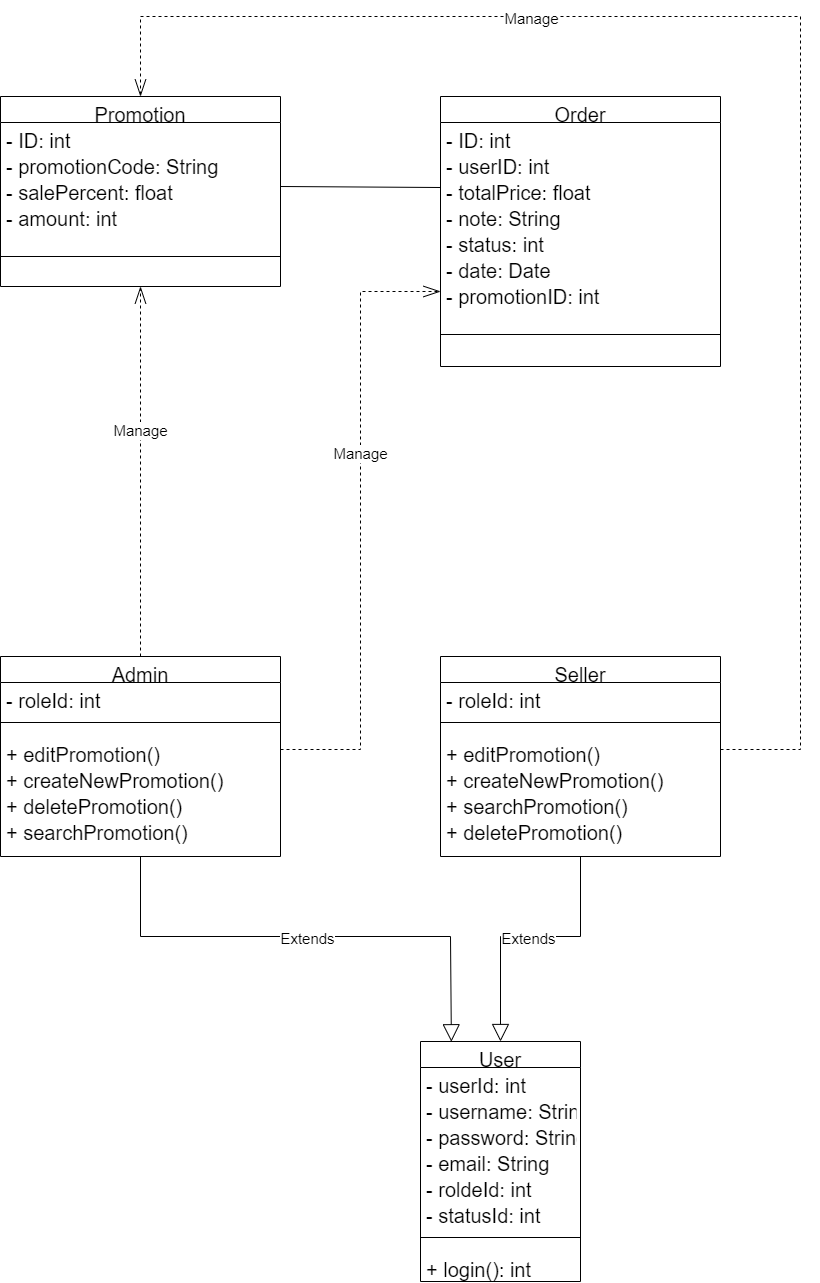
### c. Sequence Diagram(s)





## 22. Promotion code management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

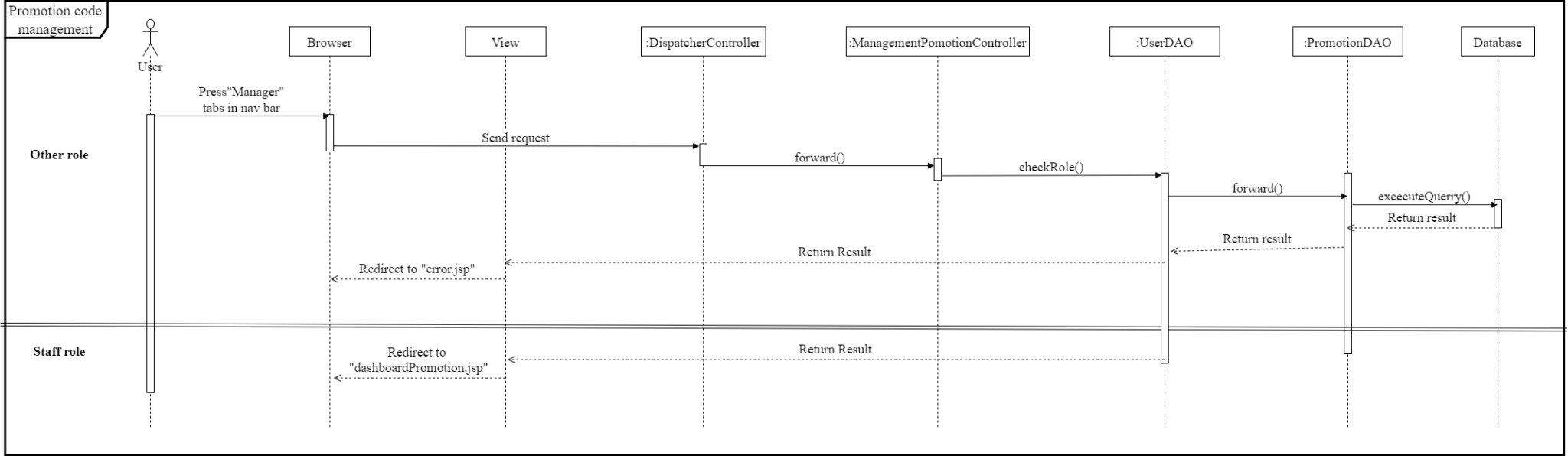
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Seller/admin class***

***Class Methods***

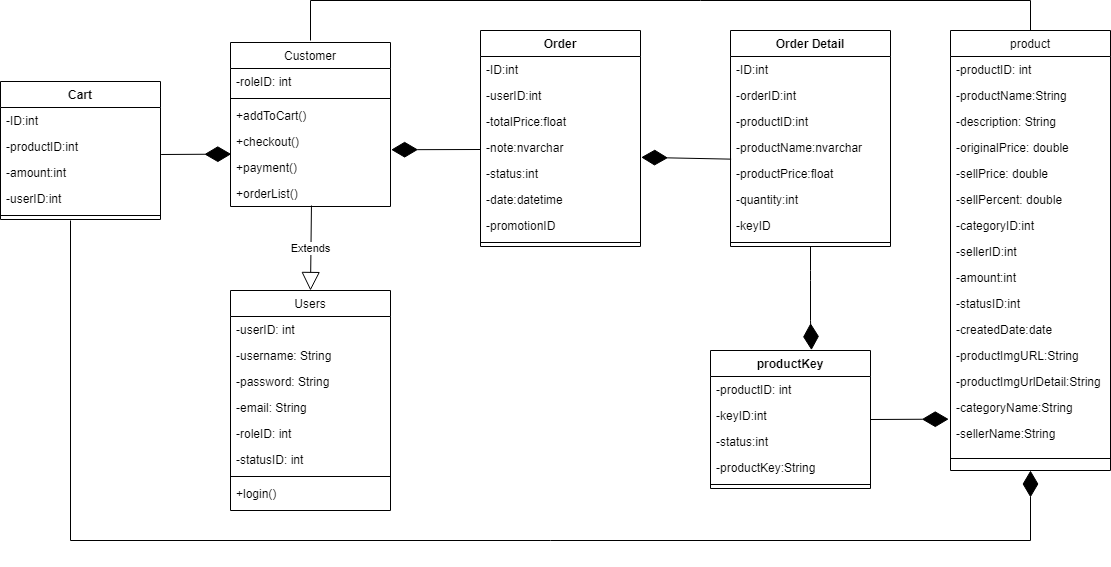
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *editPromotion* | *Edit promotion information* |
| *02* | *createNewProduct* | *Add new promotion* |
| *03* | *searchPromotion* | *Search promotion by promotion code, id* |
| *04* | *deletePromotion* | *Delete promotion* |

### c. Sequence Diagram(s)



## 23. Cart Completion(Checkout)

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

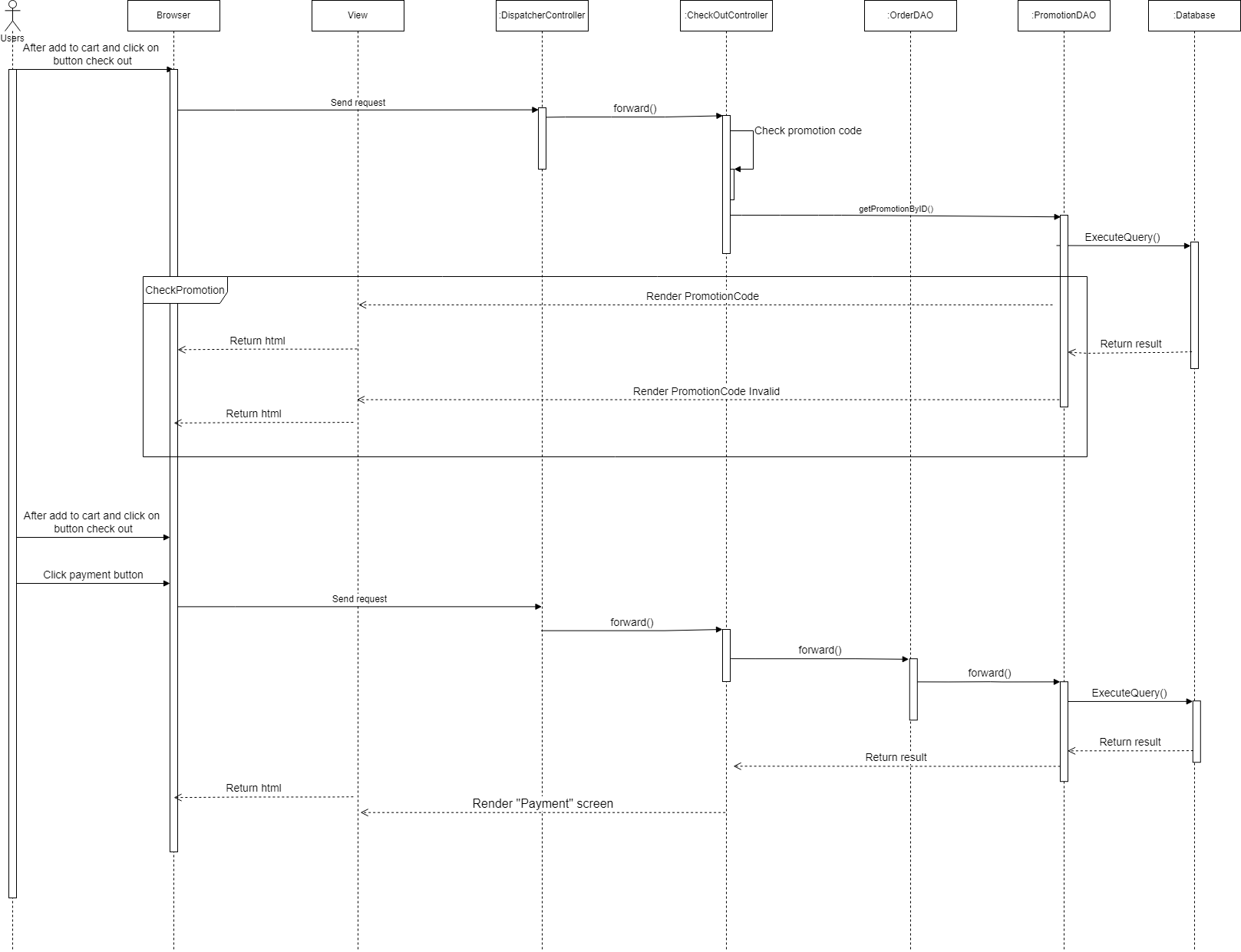
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Customer class***

***Class Methods***

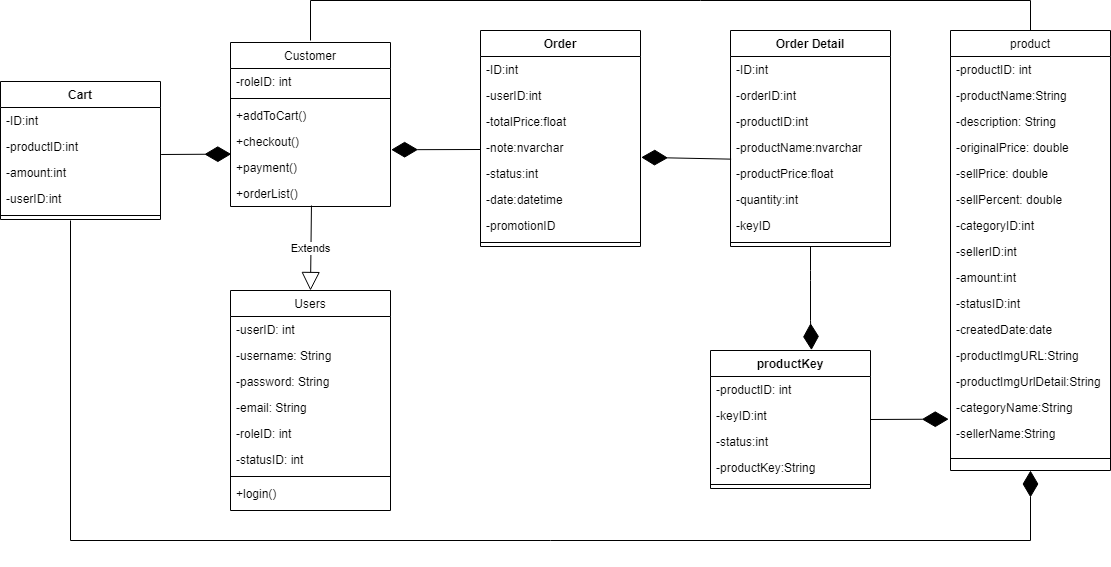
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *addToCart* | *Add products to cart* |
| *02* | *checkOut* | *Check out cart* |
| *03* | *payMent* | *User pay for our order* |
| *04* | *orderList* | *Show list after order* |

### c. Sequence Diagram(s)



## 24. Payment

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

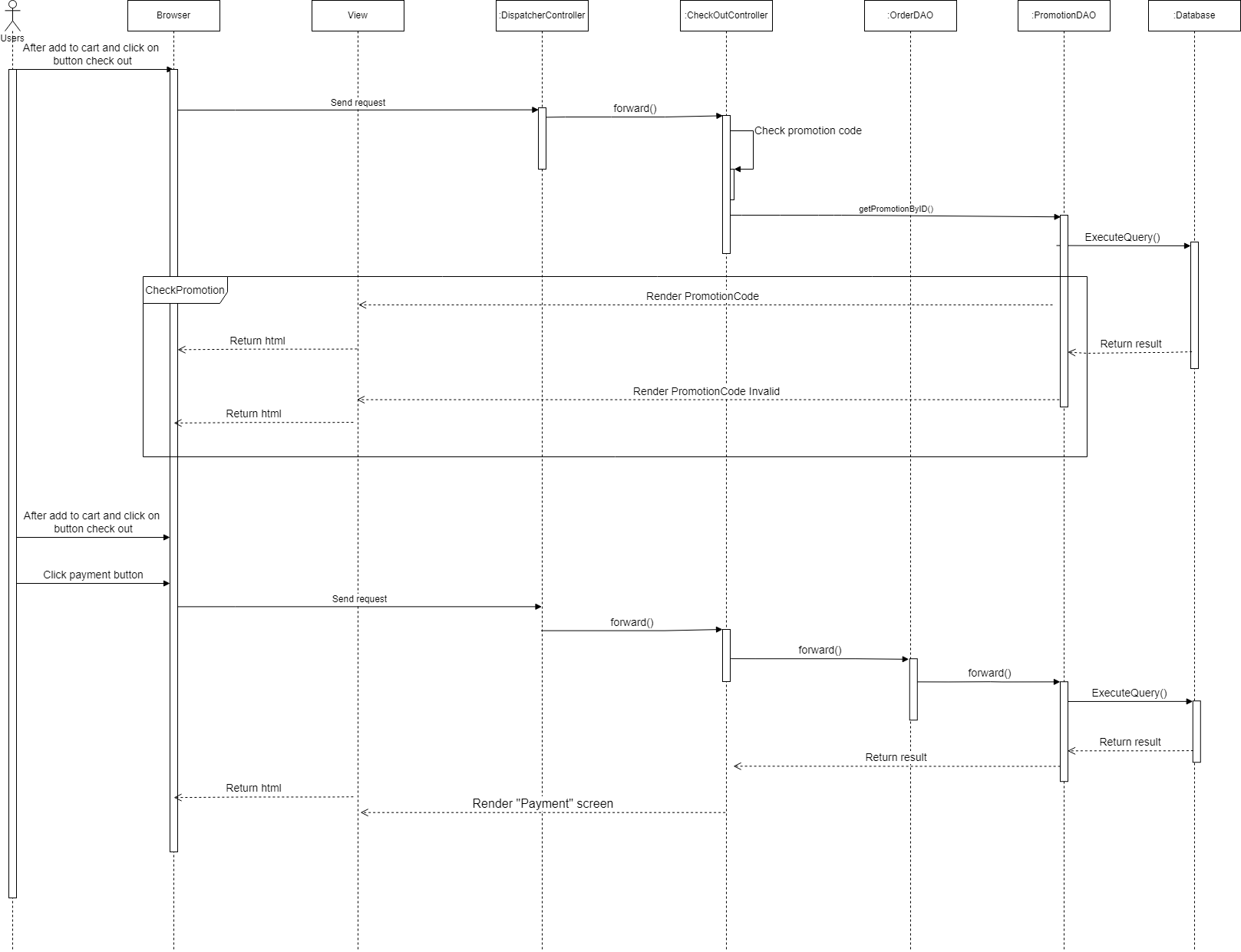
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Customer class***

***Class Methods***

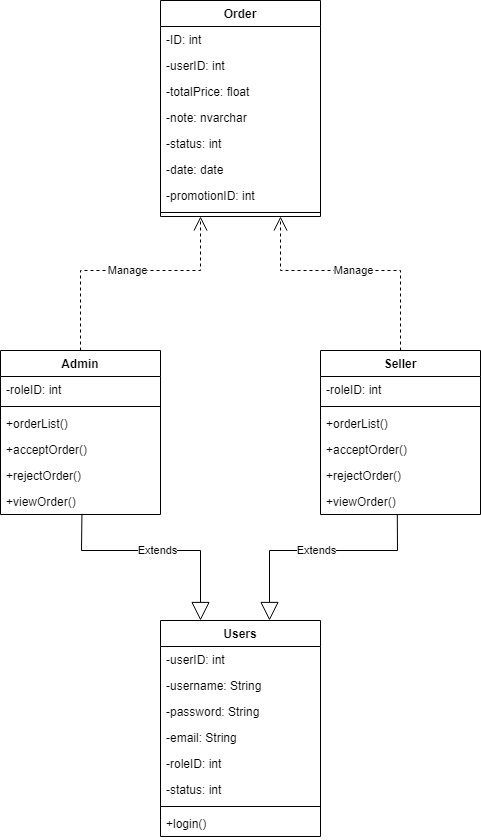
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *addToCart* | *Add products to cart* |
| *02* | *checkOut* | *Check out cart* |
| *03* | *payMent* | *User pay for our order* |
| *04* | *orderList* | *Show list after order* |

### c. Sequence Diagram(s)



## 25. Order Management

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

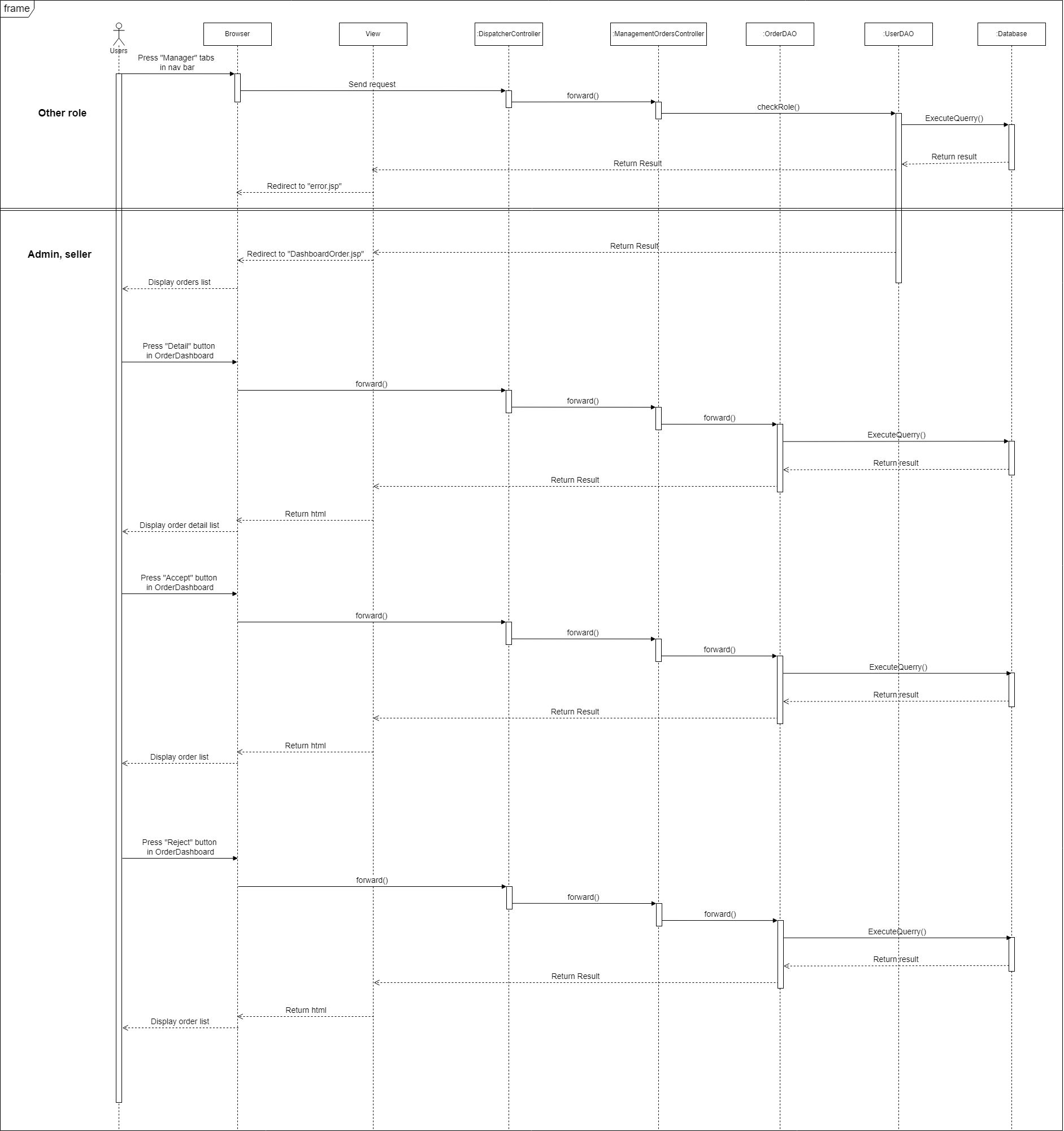
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Admin, Seller class***

***Class Methods***

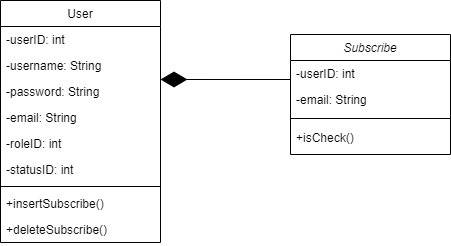
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *acceptOrder()* | *Accepted user order* |
| *02* | *rejectOrder()* | *Reject user order* |
| *03* | *viewOrder* | *Author view order detail of user* |
| *04* | *orderList* | *Show orders of users* |

### c. Sequence Diagram(s)



## 26. User subscribe

### a. Class Diagram



### b. Class Specifications

***User***

**Class Methods**

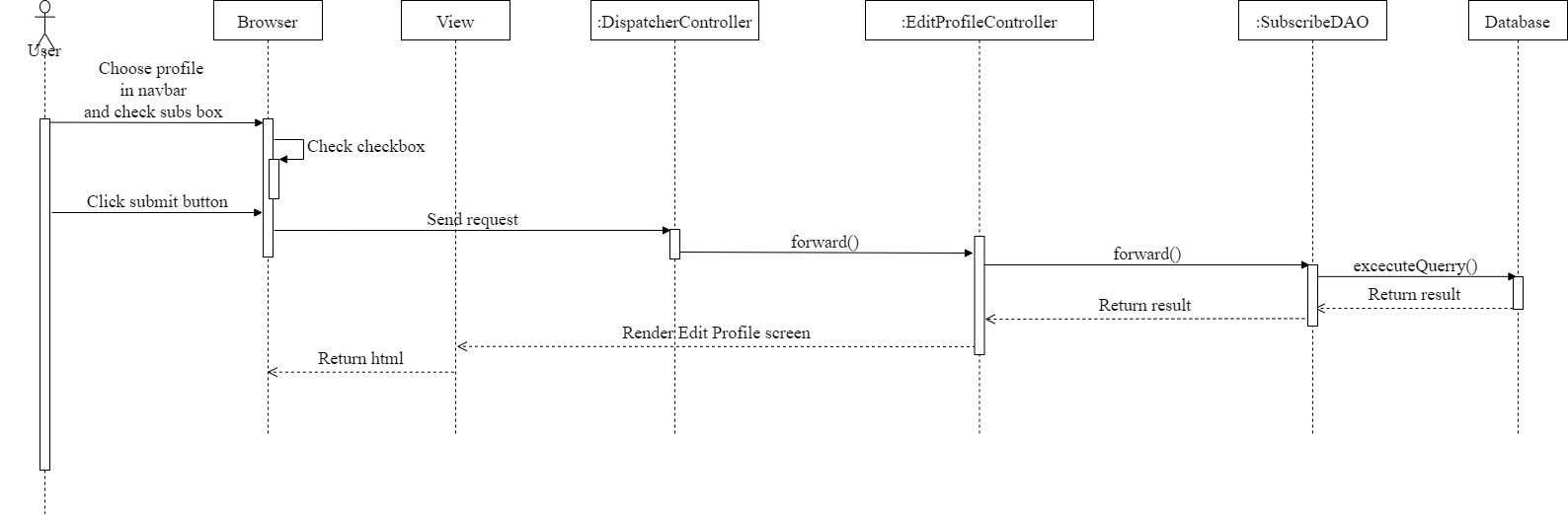
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *deleteSubscribe()* | *Delete user subscribe email from subscribe database* |
| *02* | *insertSubscibe()* | *Insert new user subscribe email to subscribe database* |

***SubscribeClass***

**Class Methods**

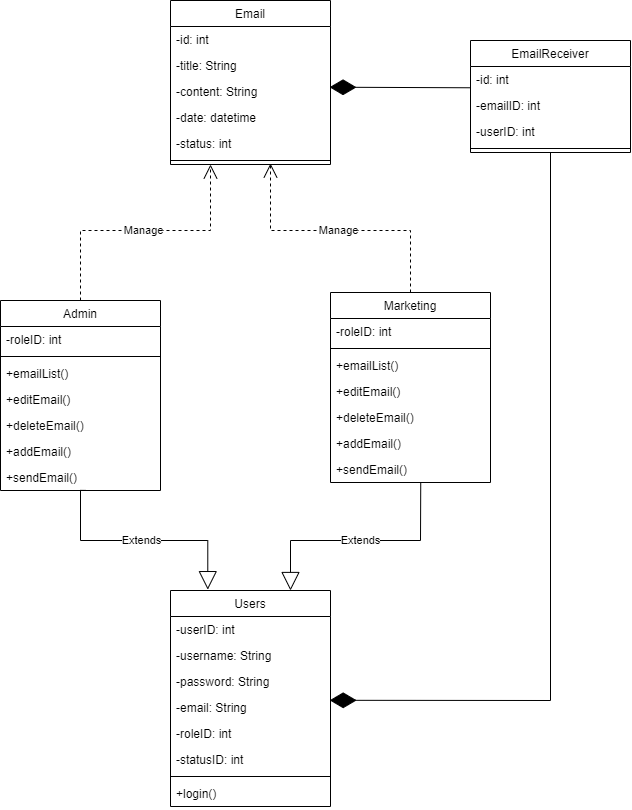
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *isCheck()* | *Check user tick on Subscribe checkbox* |

### c. Sequence Diagram(s)



## 27. Email Management

### a. Class Diagram



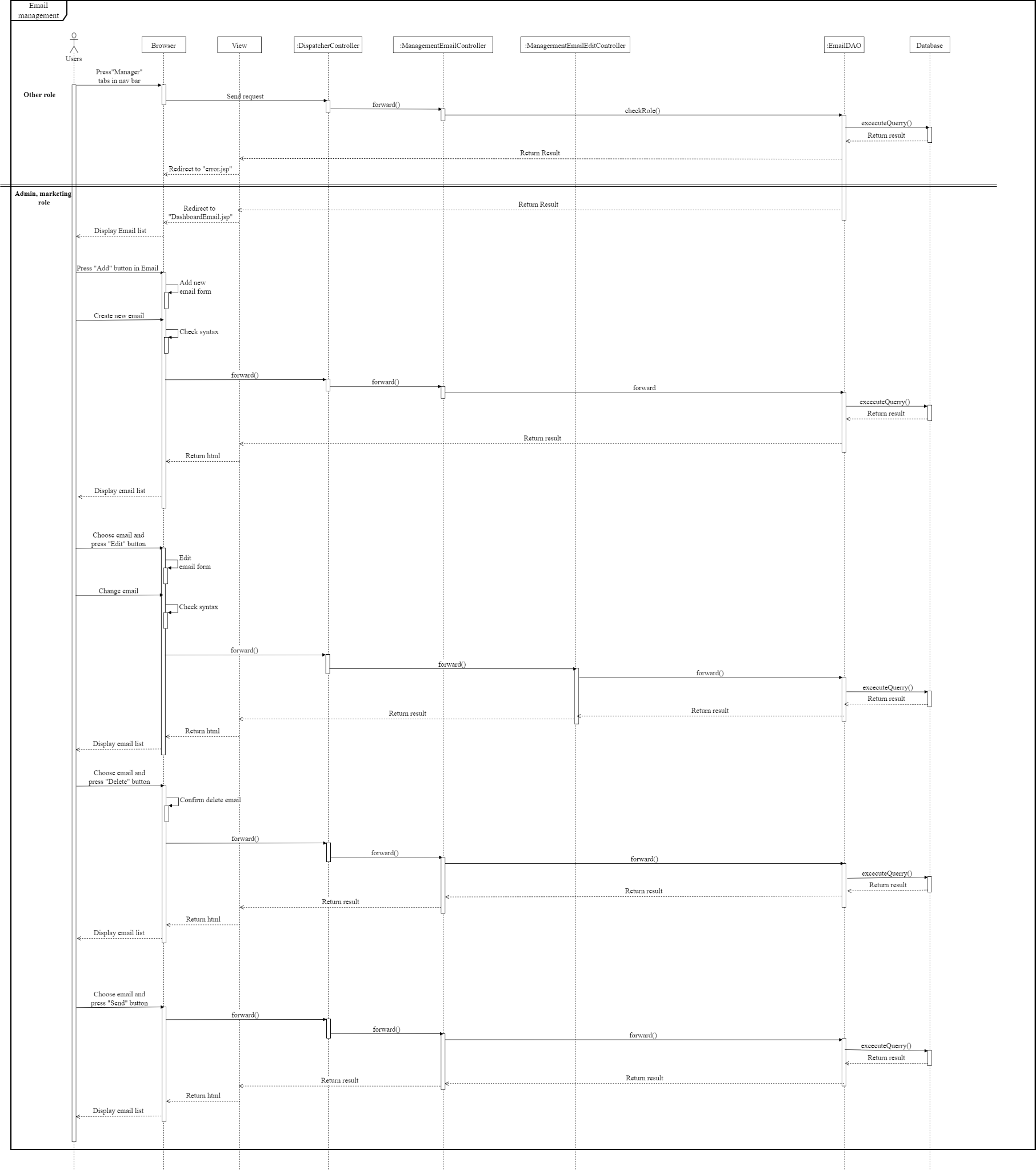
### b. Class Specifications

***Admin class/ marketing class***

***Class Methods***

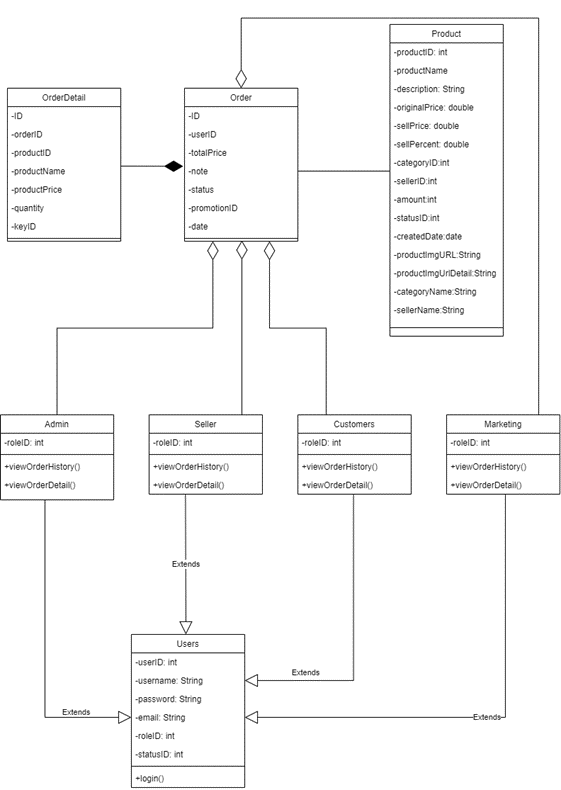
|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Send Email* | *Send Email to list of type user with emailID and UserID in emailReceiver* |
| *02* | *Edit Email* | *Edit detail Email, title,content* |
| *03* | *Delete Email* | *Delete email* |
| *04* | *Add Email* | *Add new email* |
| *05* | *EmailList* | *View list all email* |

### c. Sequence Diagram(s)



## 28. Order history and order detail

### a. Class Diagram



### b. Class Specifications

***UsersClass***

***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *Login* | *Input correct username and password to login in to web* |

***Admin Seller Customers Marketing class***

***Class Methods***

|  |  |  |
| --- | --- | --- |
| **No** | **Method** | **Description** |
| *01* | *View order history* | *View all order history* |
| *02* | *View order detail* | *View detail of order* |

### c. Sequence Diagram(s)

