

**YOGA CENTER**

**Software Requirement Specification**

– HCM, May 2023 –

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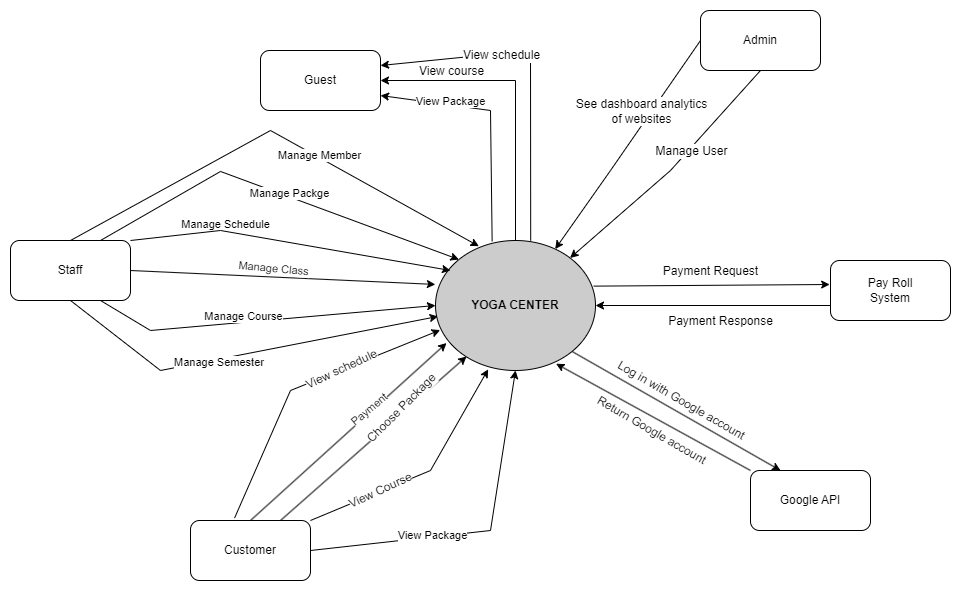
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# I. Overview

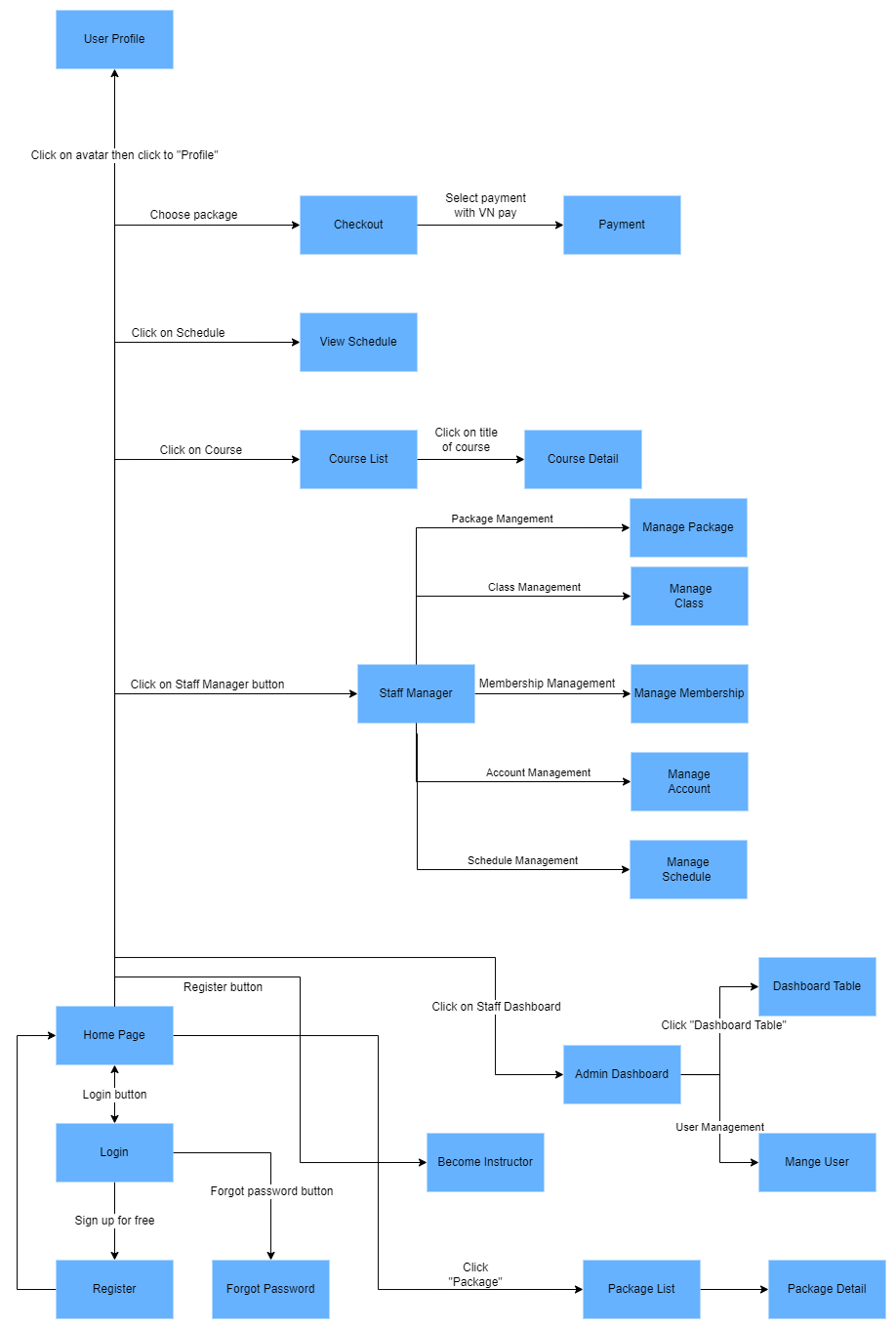
## 1. Introduction

Heartbeat is a helpful website that can help users to manage information & service, schedule, class, course, package, semester and membership.



## 2. System Functions

#### a. Screen Flow



#### b. Screen Details

| **#** | **Feature** | **Screen** | **Description** |
| --- | --- | --- | --- |
|  | Public | Home Page | The starting page of the system |
|  | Public | View courses list | Allow users to view a list of courses |
|  | Public | View course | Allow users to view details of the course. |
|  | Public | View Schedule | Allow users to view schedule |
|  | Public | View Package | Allow users to view packages |
|  | Common | Login | User can log in to the system with the system account |
|  | Common | Login with Google | Users can log in to the system with the Google account |
|  | Common | Register | This page is only for users who want to create an account to log in to the system. |
|  | Common | Recovery Password | This feature will send a new password to their email address if the email is verified. |
|  |  |  |  |
|  | Common | Get Account Profile | shows general information about the account like date of birth, country, region, phone number, email address, and username. |
|  | Common | Update Profile | Users can edit information about accounts like username, dob, and phone number, ... |
|  | Common | Change Password | Change password is a feature when users want to change a new password for their account. |
|  | Customer | Checkout | Allow user to checkout |
|  | Customer | Payment | Allow user to payment |
|  | Staff | Staff Manager | Show all the tasks which staff can manage |
|  | Staff | Package Management | Staff can manage packages. |
|  | Staff | Schedule Management | Staff can manage schedules. |
|  | Staff | Course Management | Staff can manage courses, |
|  | Staff | Semester Management | Staff can manage semesters |
|  | Staff | Class Management | Staff can manage classes. |
|  | Staff | Membership  management | Staff can manage semester |
|  | Admin | User Management | Admin can manage user. |
|  | Admin | Admin Dashboard | Allows the admin to see all the information of the web application. |

#### c. User Authorization

| **Screen** | **Guest** | **Customer** | **Staff** | **Admin** |
| --- | --- | --- | --- | --- |
| <<Screen Login>> | X | X | X | X |
| Login with system account | X | X | X | X |
| Login with Google account | X | X | X | X |
|  |  |  |  |  |
| <<Screen Register>> | X | X | X | X |
| Register account | X | X | X | X |
|  |  |  |  |  |
| <<Screen Checkout>> |  | X |  |  |
| Checkout |  | X |  |  |
|  |  |  |  |  |
| <<Screen Payment>> |  | X |  |  |
| Payment |  | X |  |  |
|  |  |  |  |  |
| <<Reset Password>> |  |  |  |  |
| Forgot Password | X | X | X | X |
|  |  |  |  |  |
| <<Screen Home>> | X | X | X | X |
| Home Page | X | X | X | X |
| Search Class | X | X | X | X |
| Course List | X | X | X | X |
| Favourite course | X | X | X | X |
|  |  |  |  |  |
| <<Screen Account Profile>> |  | X | X | X |
| Account Profile |  | X | X | X |
| Update Profile |  | X | X | X |
|  |  |  |  |  |
| <<Screen Course Detail>> | X | X | X | X |
| Course Details | X | X | X | X |
|  |  |  |  |  |
| <<Screen Staff>> |  |  | X |  |
| Semester management |  |  | X |  |
| Course management |  |  | X |  |
| Class management |  |  | X |  |
| Schedule management |  |  | X |  |
| Member management |  |  | X |  |
|  |  |  |  |  |
| <<Screen Admin>> |  |  |  | X |
| Admin dashboard |  |  |  | X |
| User management |  |  |  | X |

#### d. Non-Screen Functions

| **#** | **Feature** | **System Function** | **Description** |
| --- | --- | --- | --- |
| 1 | Common | userAuthorization | Check the user if they are allowed to enter the class or not. |
| 2 | Common | encodeSHA256 | Encode the password with SHA-256 to secure the password. |
| 3 | Common | sign-out | Users sign out of the system |
| 4 | Common | input validation | Valid user’s input. |

## 3. Common Requirements

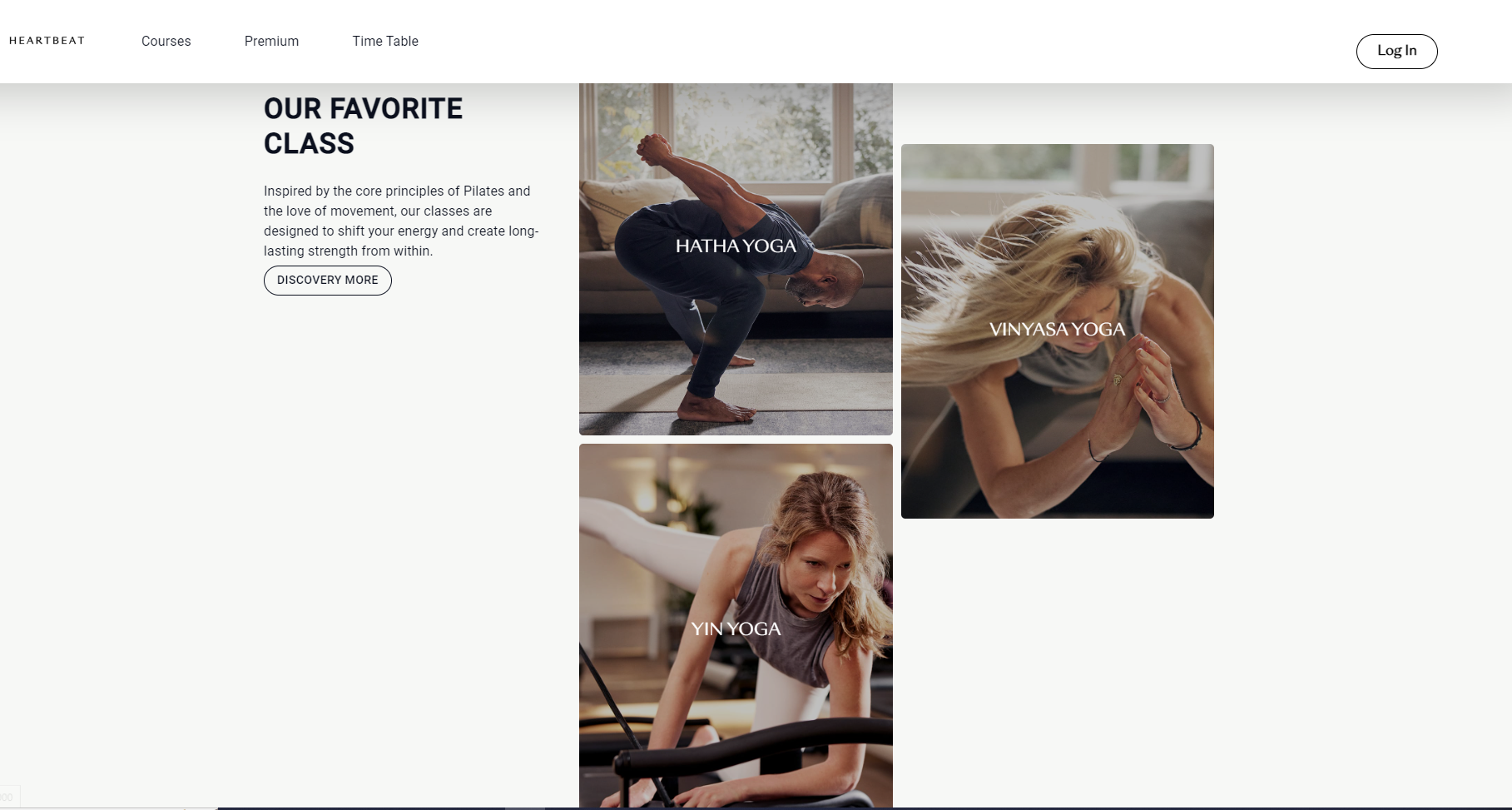
* The system must display courses, packages, and schedules for users.
* The system must be easy to use for all non-technical users, specifically for the Staff only needing 1 day to use all the main features without training.
* The user can check out and payment with VNpay or in the center.
* The Admin must be able to ban another user.
* The system must update the user to become a member right away after their payment at VNPay.
* The system must send an email notification to the user when they are on the deadline for the membership.

# II. Functional Requirements

## 1. Public Feature

### a. Home Page

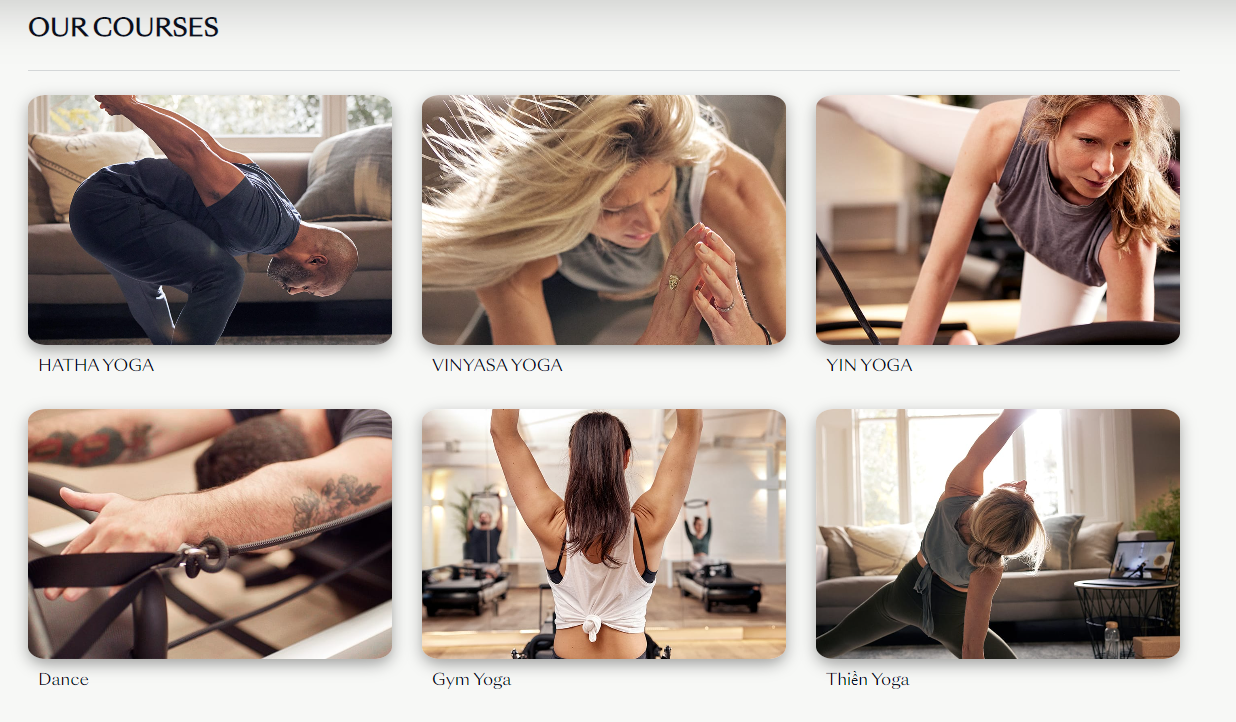
* Function trigger: This function is triggered when the user visits the website or the system homepage
* Function description: The User sees briefs about the introduction, course list, and video,
* Screen layout: simulated prototype of the screen, the sample below is for the home screen



* Function Details: When the user access the system, the homepage will appear and show information about the system

### b. Courses List

* Function trigger: This function is triggered when the user visits the website or the system course list
* Function description: The user sees the list of courses.
* Screen layout: simulated prototype of the screen, the sample below is for the courses list screen



* Function Details: When the user clicks on courses, the systems will display all the courses available.

### c. View course

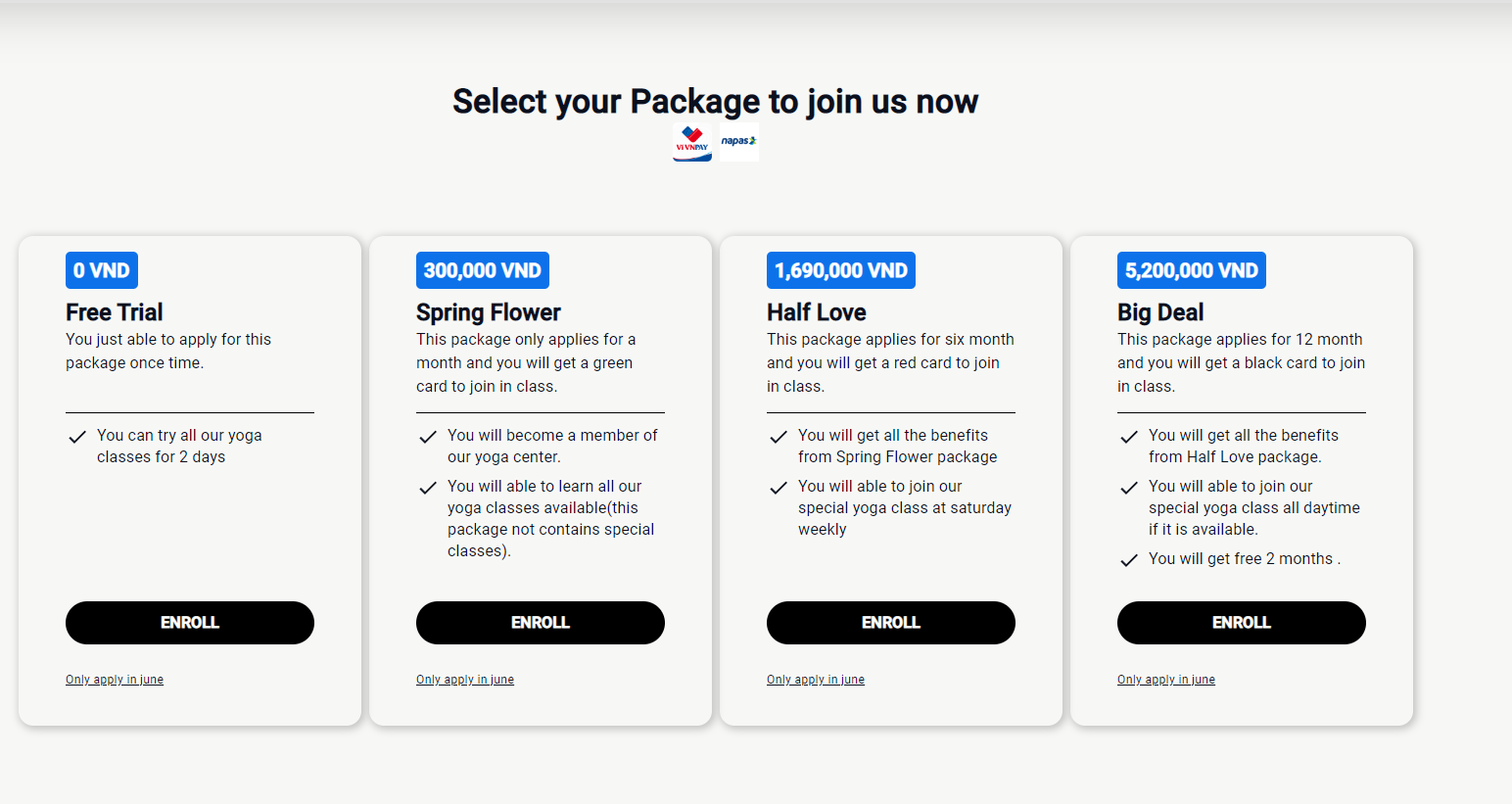
* Function trigger: This function is triggered when the user visits the website or the system to view the course.
* Function description: The user sees the course information.
* Screen layout: simulated prototype of the screen, the sample below is for the course screen



* Function Details: When the user clicks on one of the specific courses, this page will show all the information about the course selected.

### c. View package

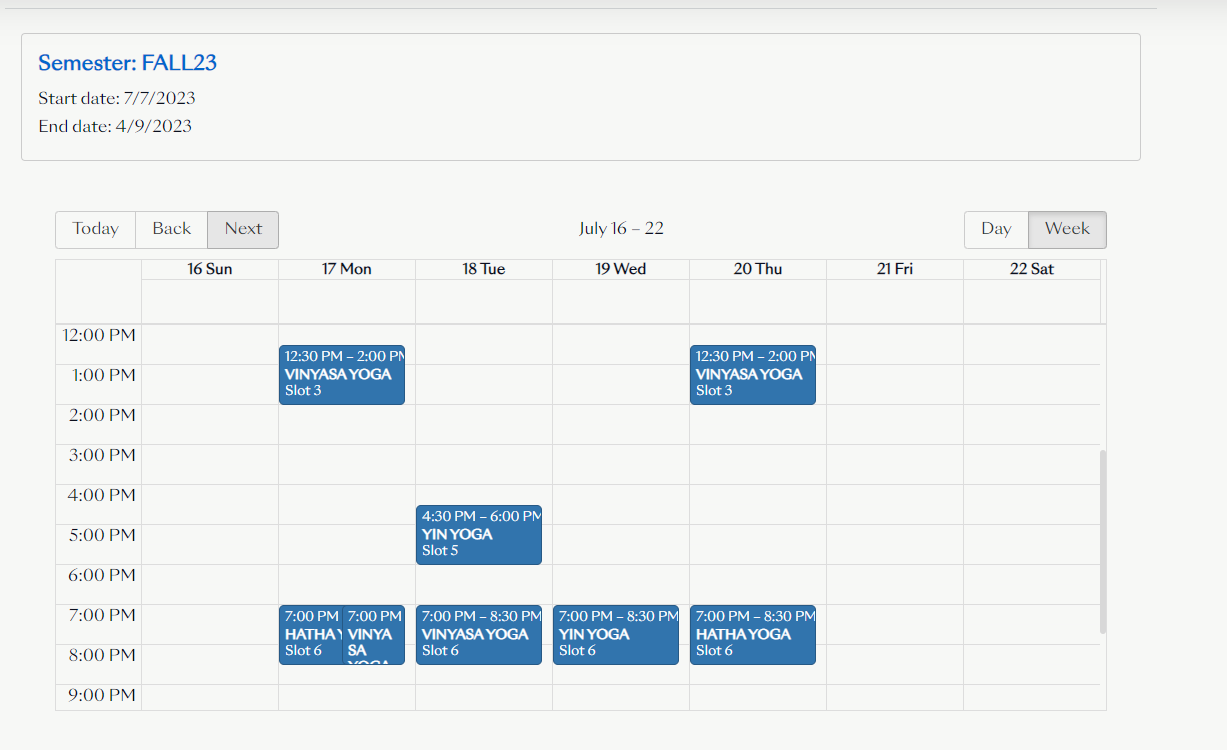
* Function trigger: This function is triggered when the user visits the website or the system to view the package.
* Function description: The user sees the package information.
* Screen layout: simulated prototype of the screen, the sample below is for the package screen



* Function Details: When the user clicks on the package button, this page will show all the information about the package.

### d. View schedule

* Function trigger: This function is triggered when the user visits the website or the system to view the package.
* Function description: The user sees the schedule information.
* Screen layout: simulated prototype of the screen, the sample below is for the package screen

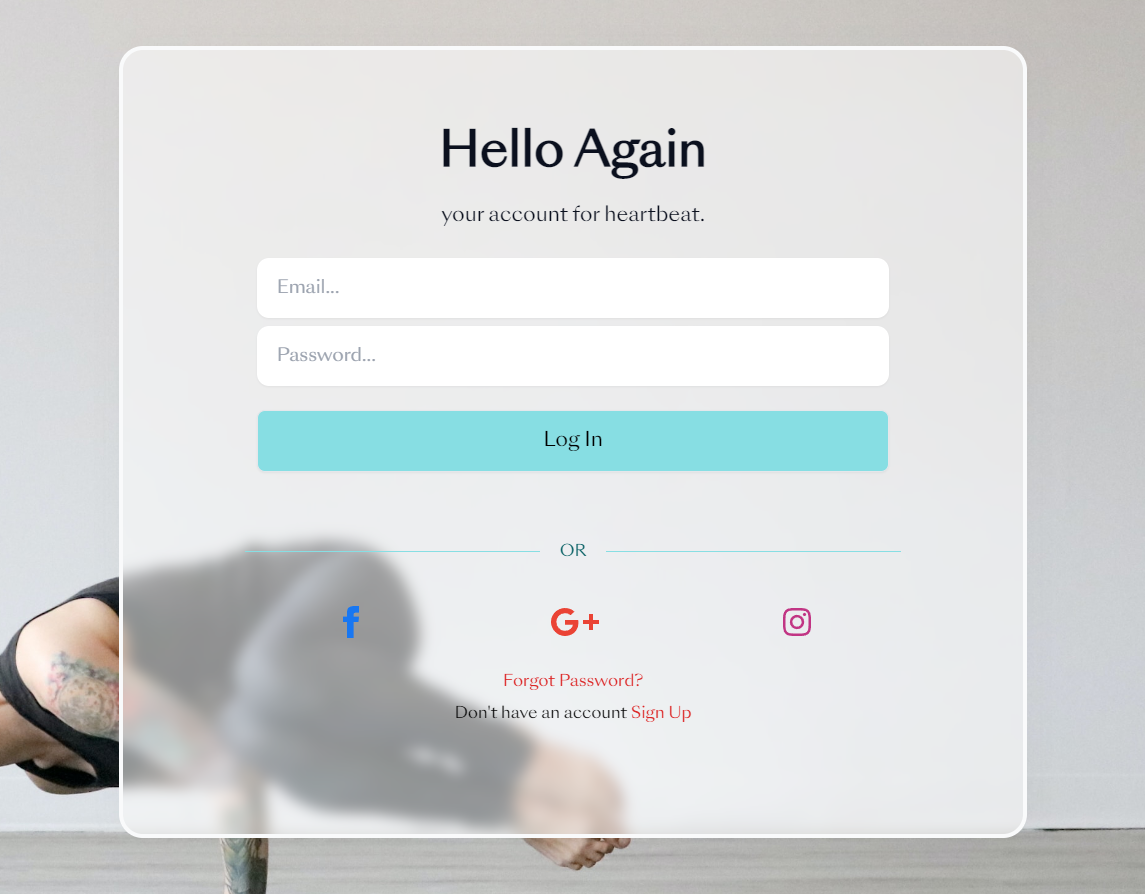


* Function Details: When the user clicks on the schedule button, this page will show all the information about the schedule.

## 2. Common Feature

### a. Login

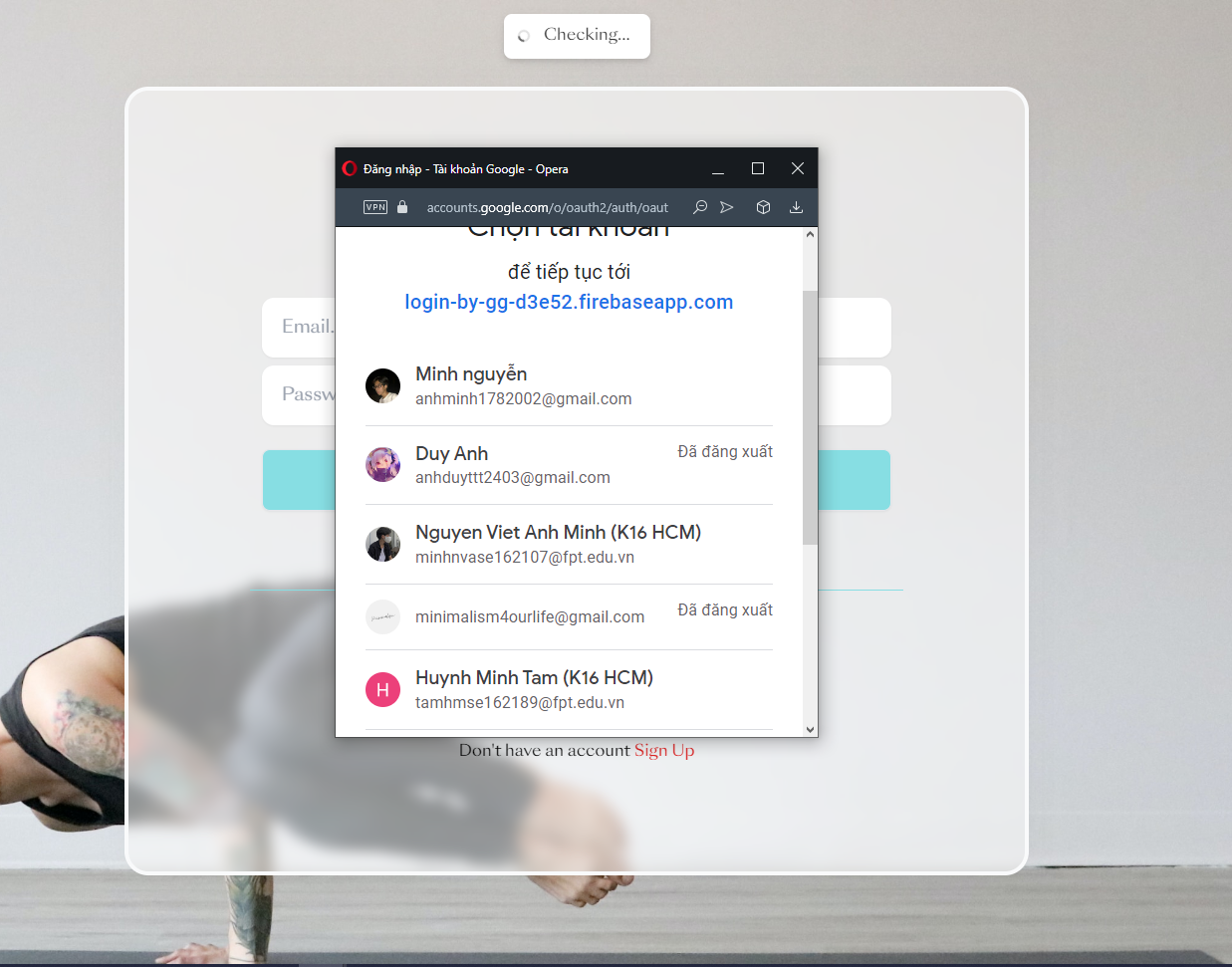
* Function trigger: This function is triggered when the user visits the website or the system to log in.
* Function description: The user sees the log-in screen.
* Screen layout: simulated prototype of the screen, the sample below is for the login screen



* Function Details: When the user clicks on the login button, this page displays the form to log in.

### b. Login with Google

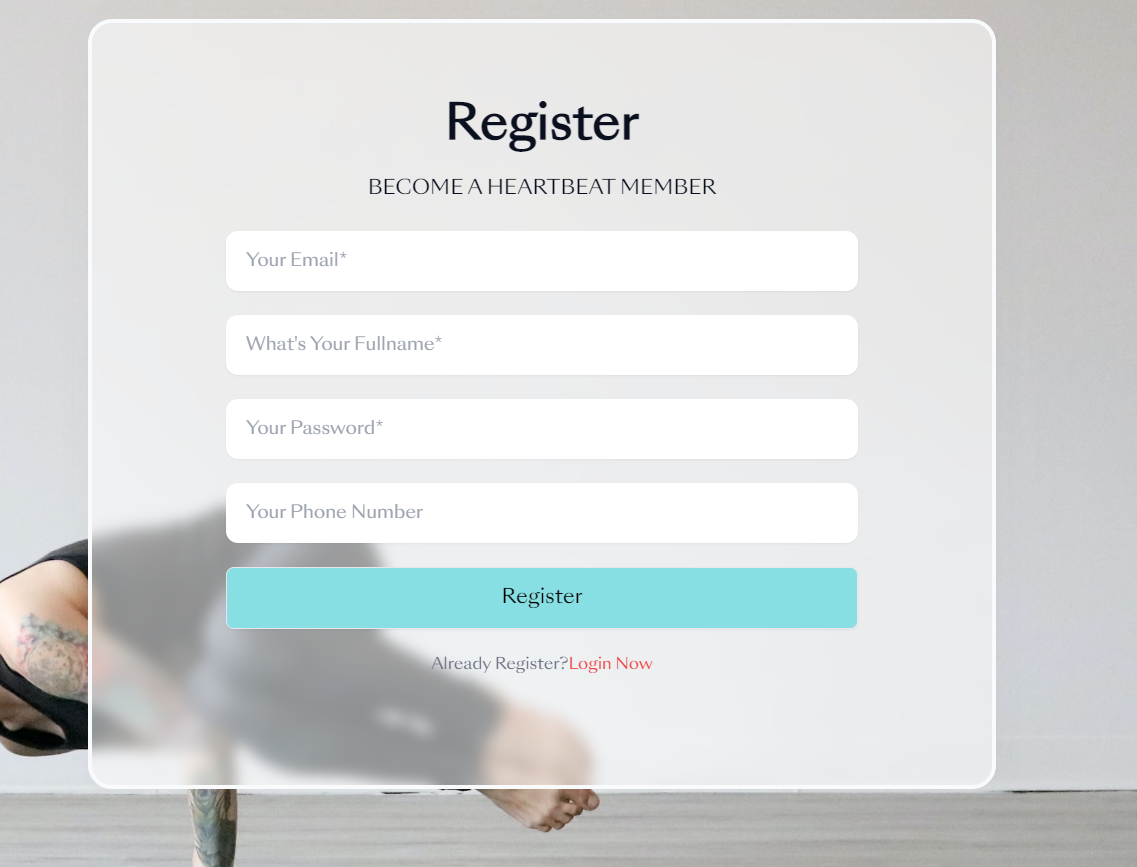
* Function trigger: This function is triggered when the user visits the website or the system to log in with Google.
* Function description: The user sees the log-in screen.
* Screen layout: simulated prototype of the screen, the sample below is for the login screen



* Function Details: When the user clicks the login button, this page displays the form to log in with a Google account.

### c. Register

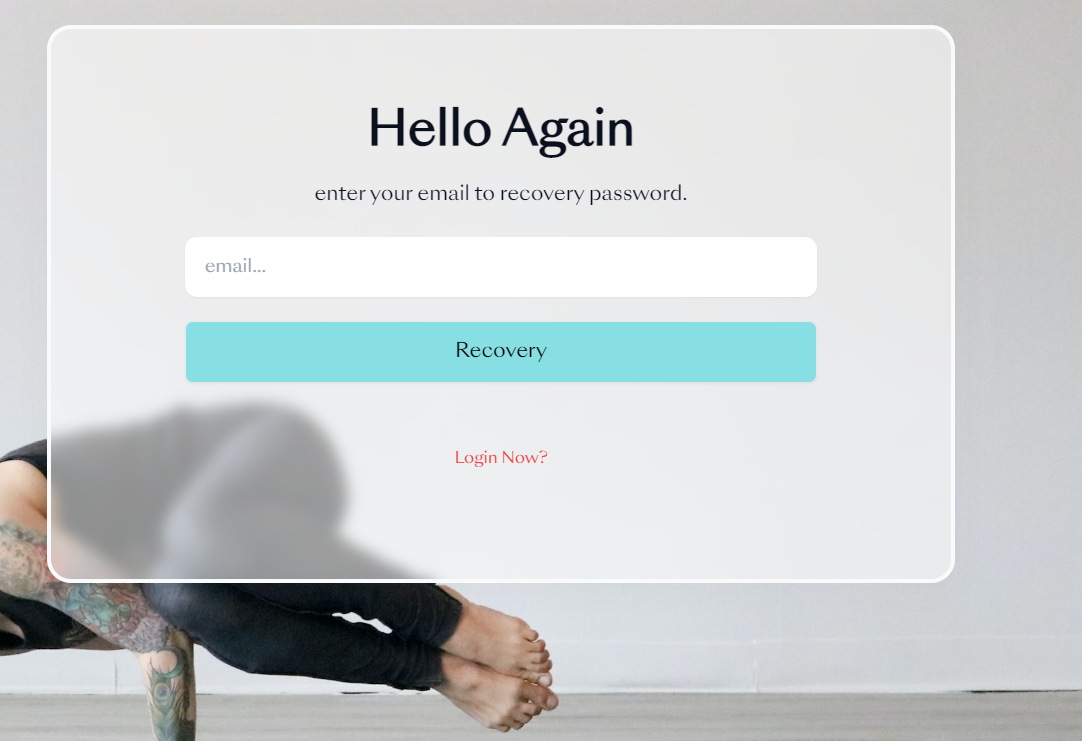
* Function trigger: This function is triggered when the user visits the website or the system to register.
* Function description: The user sees the register screen.
* Screen layout: simulated prototype of the screen, the sample below is for the register screen



* Function Details: When the user clicks the register button, this page displays the form to register an account.

### d. Recovery Password

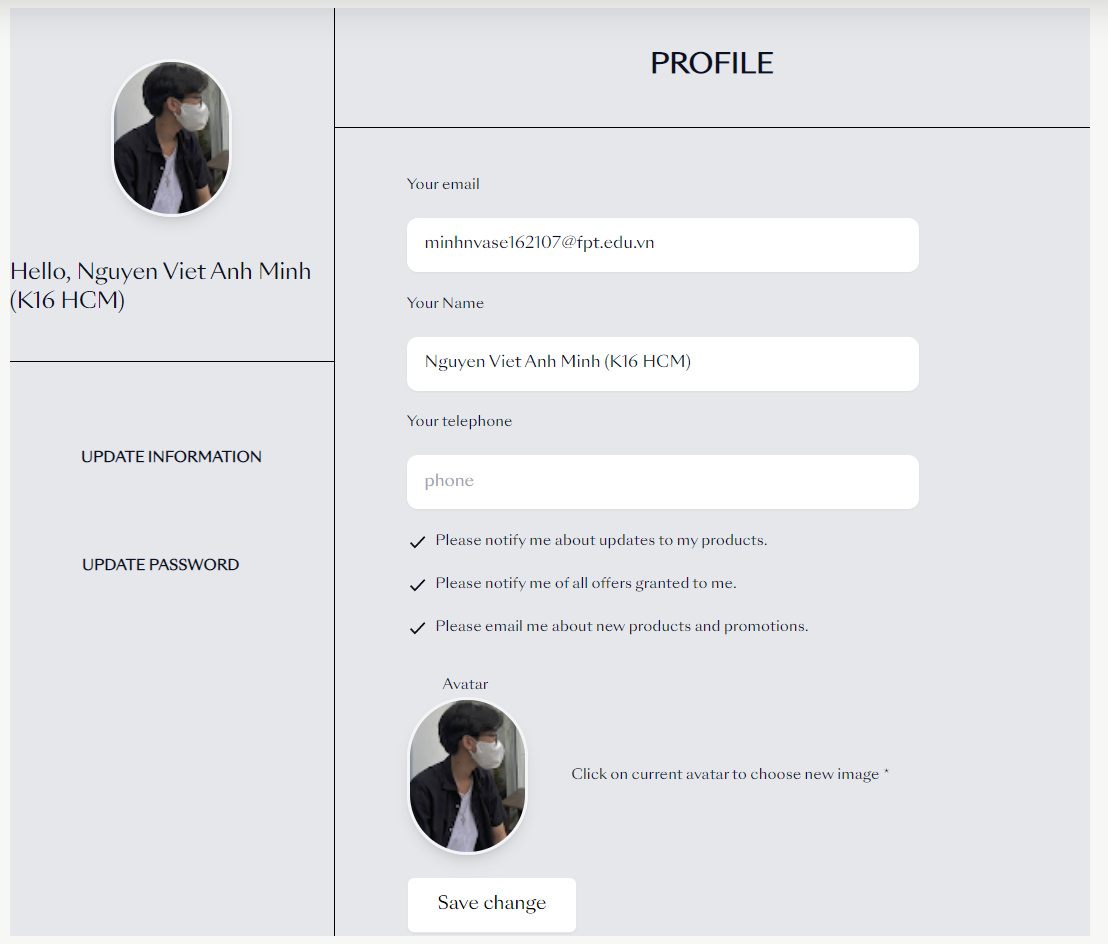
* Function trigger: This function is triggered when the user visits the website or the system to recover the password.
* Function description: The user sees the recovery password screen.
* Screen layout: simulated prototype of the screen, the sample below is for the recovery password screen



* Function Details: When the user clicks the forgot password button, this page displays the form to recover the password.

### e. Get Account Profile

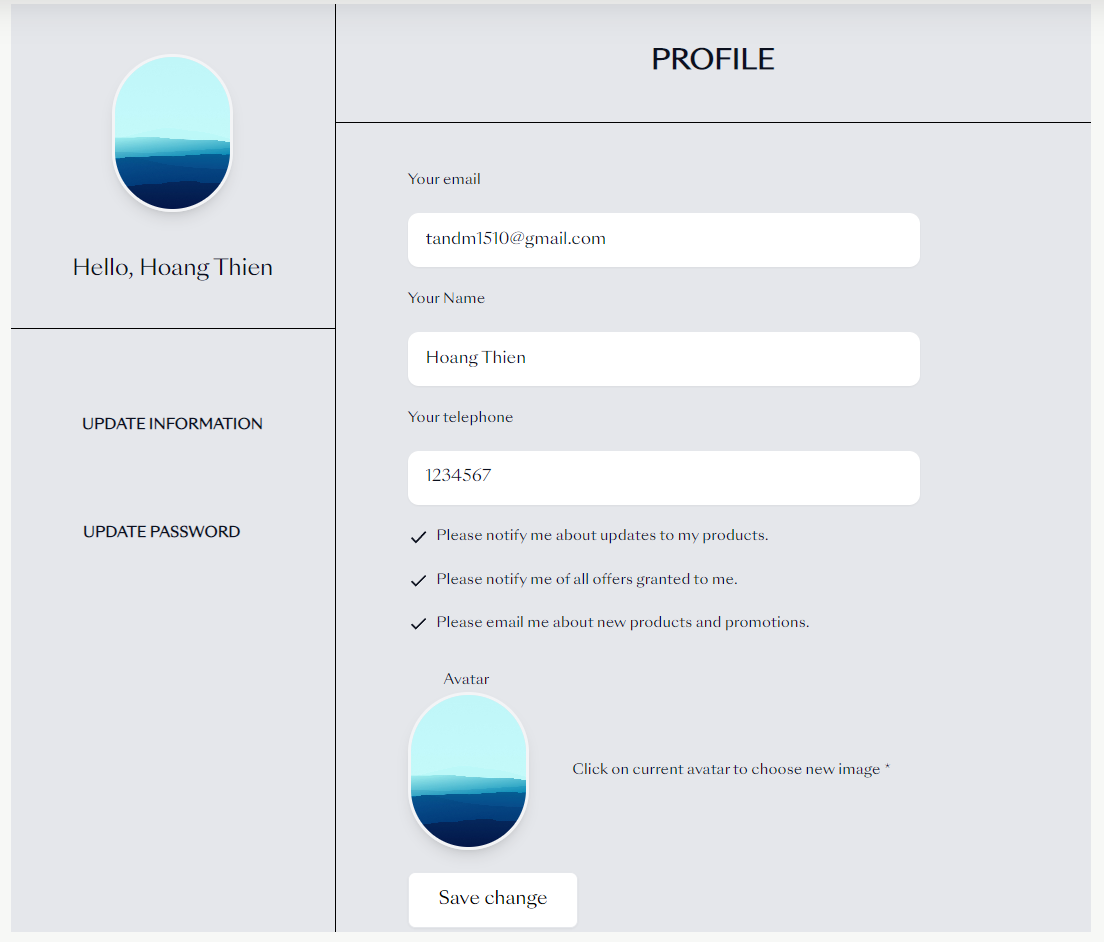
* Function trigger: This function is triggered when the user visits the website or the system to Get an Account Profile.
* Function description: The user sees the Account Profile screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Account Profile screen.



* Function Details: When the user clicks on the account button, this page displays the information about the user’s account.

### f. Update Account Profile

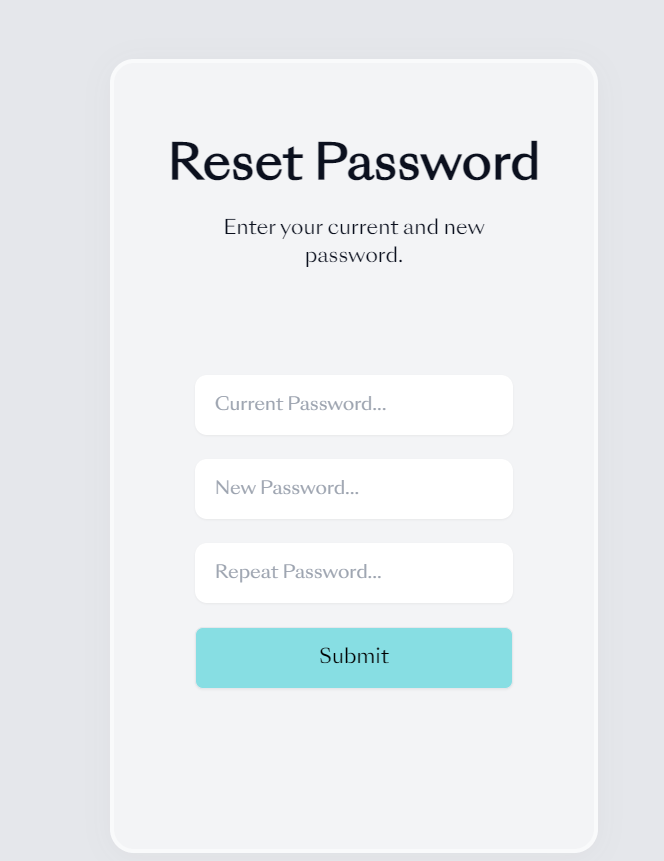
* Function trigger: This function is triggered when the user visits the website or the system to Update an Account Profile.
* Function description: The user sees the Account Profile screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Account Profile screen.



* Function Details: When the user clicks on the save change button, the user can update their news information.

### g. Change Password

* Function trigger: This function is triggered when the user visits the website or the system to Change the password.
* Function description: The user sees the Reset password screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Change password screen.

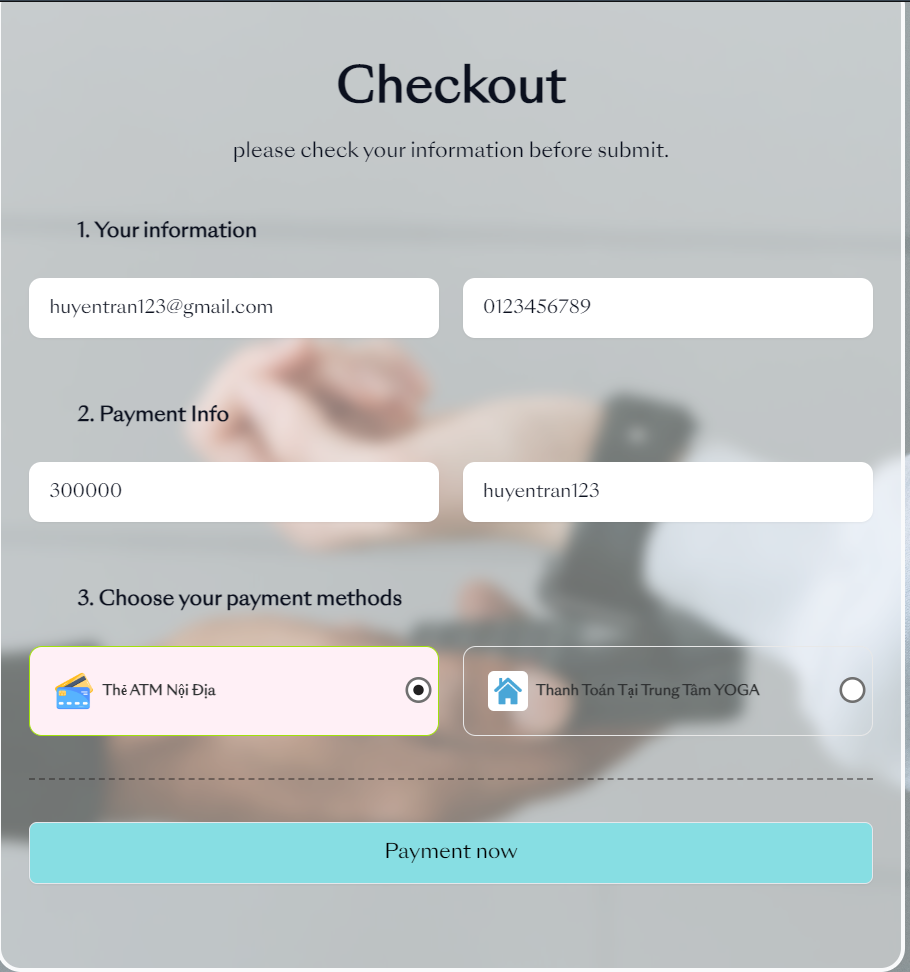


* Function Details: When the user clicks on the change password button, this page displays the form to change the password.

## 3. Customer Feature

### a. Checkout

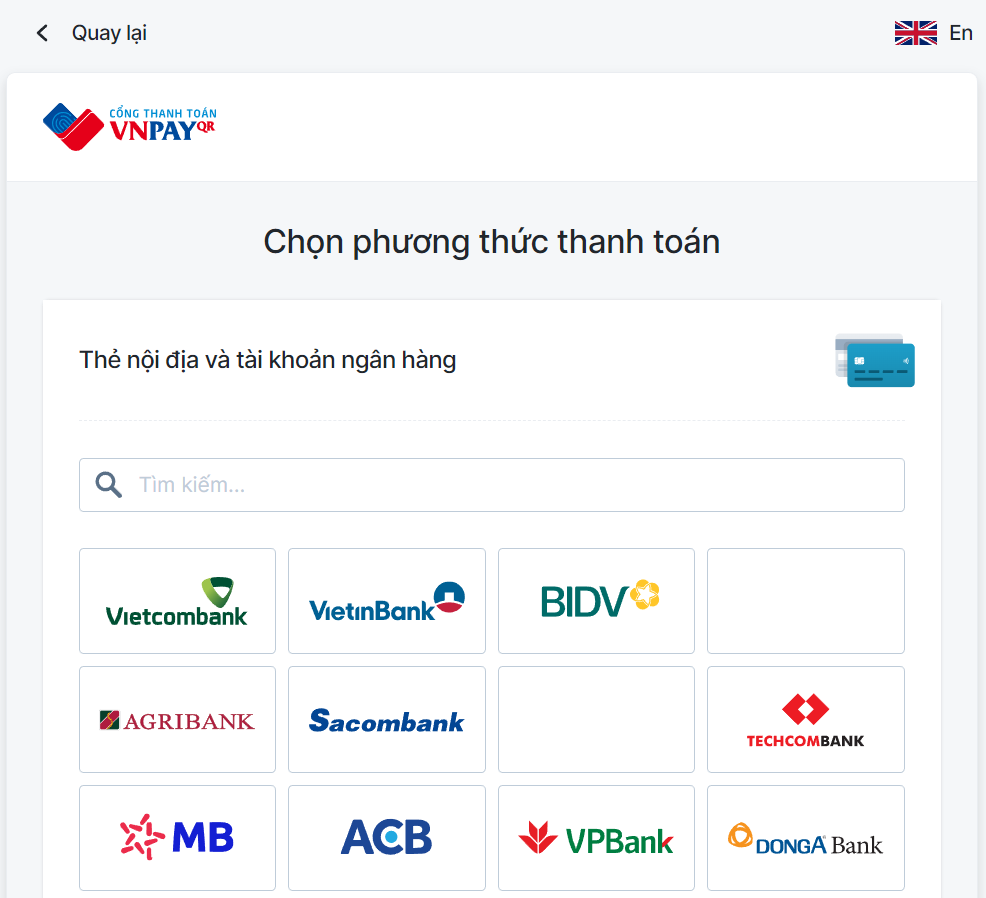
* Function trigger: This function is triggered when the user visits the website or the system to check out.
* Function description: The user sees the checkout screen.
* Screen layout: simulated screen prototype, the sample below is for the Checkout screen.



* Function Details: When the user clicks on the checkout button, this page displays the form to checkout.

### b. Payment

* Function trigger: This function is triggered when the user visits the website or the system to Payment.
* Function description: The user sees the Payment screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Payment screen.



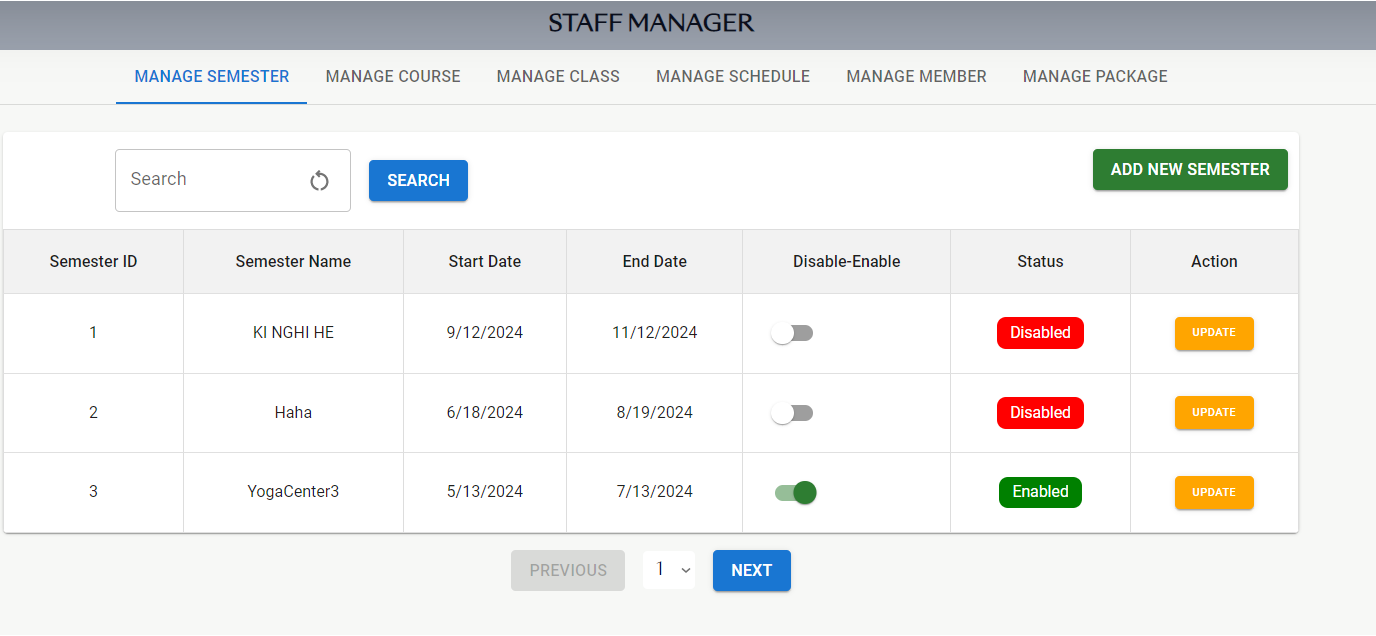
* Function Details: When the user clicks on the payment button, this page displays the form for payment.

## 4. Staff Feature

### a. Semester Management

#### a.1) View Semester List

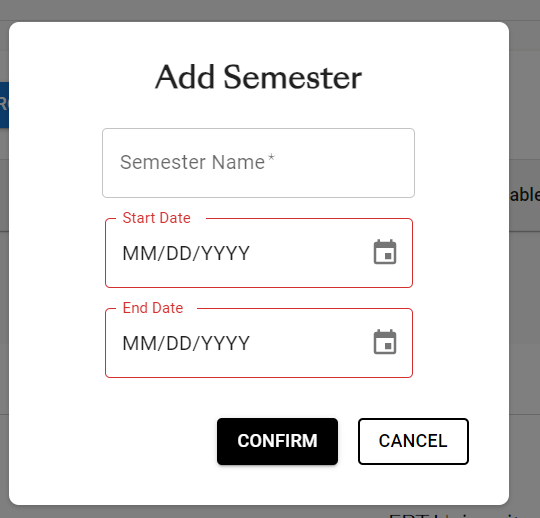
* Function trigger: This function is triggered when the user visits the website or the system to view the semester list.
* Function description: Th user sees the Manage Semester screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Semester screen.



* Function Details: When the user sends the request to get the semester list, this page displays the form for viewing the semester.

#### a.2) Add Semester

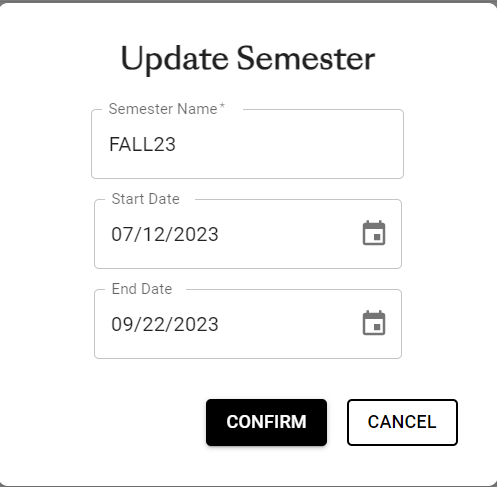
* Function trigger: This function is triggered when the user visits the website or the system to add the semester.
* Function description: The user see the Add New Semester screen.
* Screen layout: simulated screen prototype, the sample below is for the Add New Semester.



* Function Details: When the user clicks the “Add” button, this page displays the form for adding a new semester.

#### a.3) Update Semester

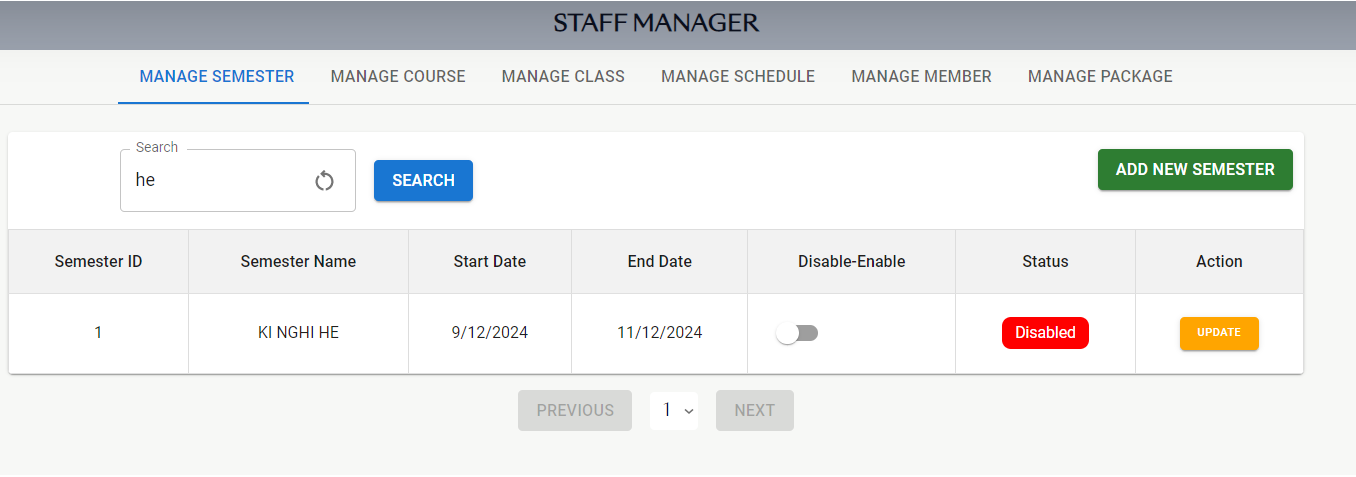
* Function trigger: This function is triggered when the user visits the website or the system to edit the semester.
* Function description: The user sees the Update Semester screen.
* Screen layout: simulated screen prototype, the sample below is for the Update Semester screen.



* Function Details: When the user clicks the “Update” button, this page displays the form for updating the semester.

#### a.4) Search Semester

* Function trigger: This function is triggered when the user visits the website or the system to search the semester.
* Function description: The user sees the Manage Semester screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Semester screen.

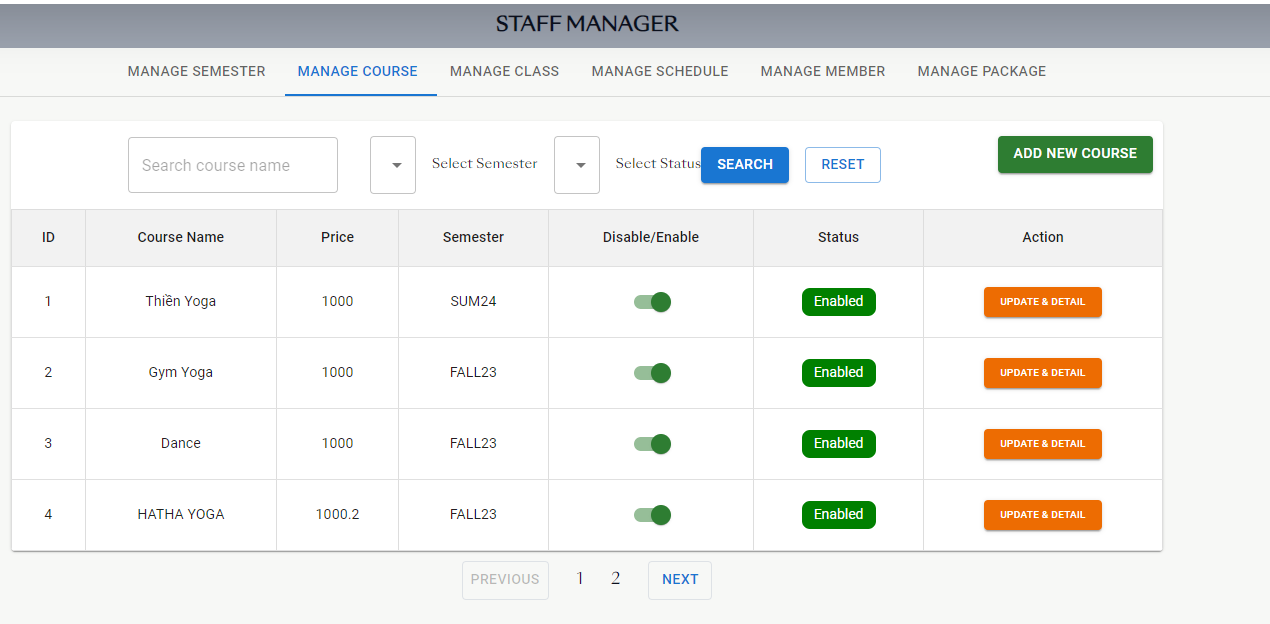


* Function Details: When the user clicks the “Search” button, this page displays the form for searching the semester.

### b. Course Management

#### b.1) View Course List

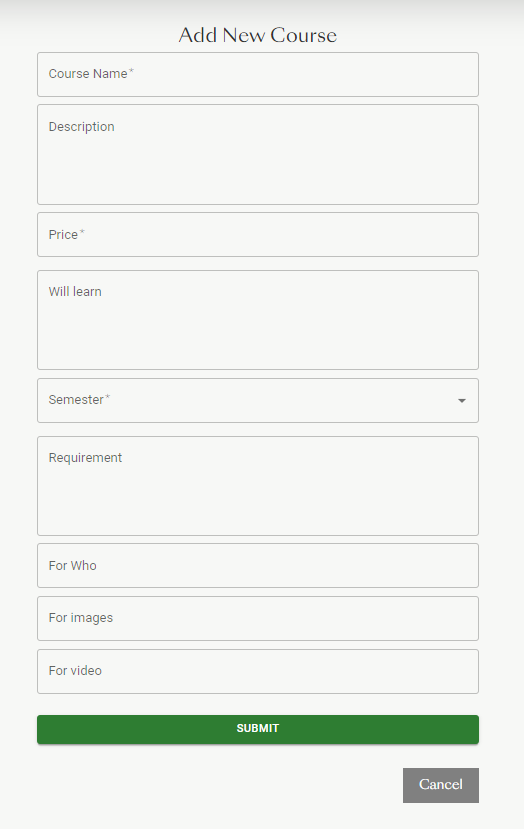
* Function trigger: This function is triggered when the user visits the website or the system to view the course list.
* Function description: The user sees the Manage Course screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Course screen.



* Function Details: When the user sends the request to get the course list, this page displays the form for viewing the course list.

#### b.2) Add Course

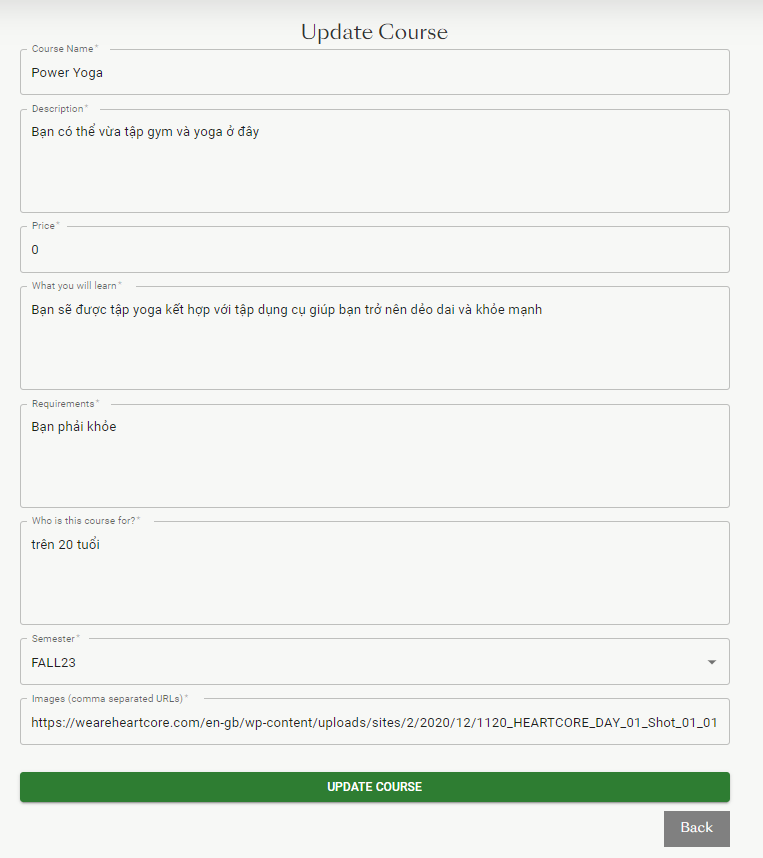
* Function trigger: This function is triggered when the user visits the website or the system to add the course.
* Function description: The user sees the Add New Course screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Add New Course.



* Function Details: When the user clicks the “Add” button, this page displays the form for adding a new course.

#### b.3) Update Course

* Function trigger: This function is triggered when the user visits the website or the system to edit the course.
* Function description: The user sees the Update Course screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Update Course screen.



* Function Details: When the user clicks the “Update” button, this page displays the form for updating the course.

#### b.4) Search Course

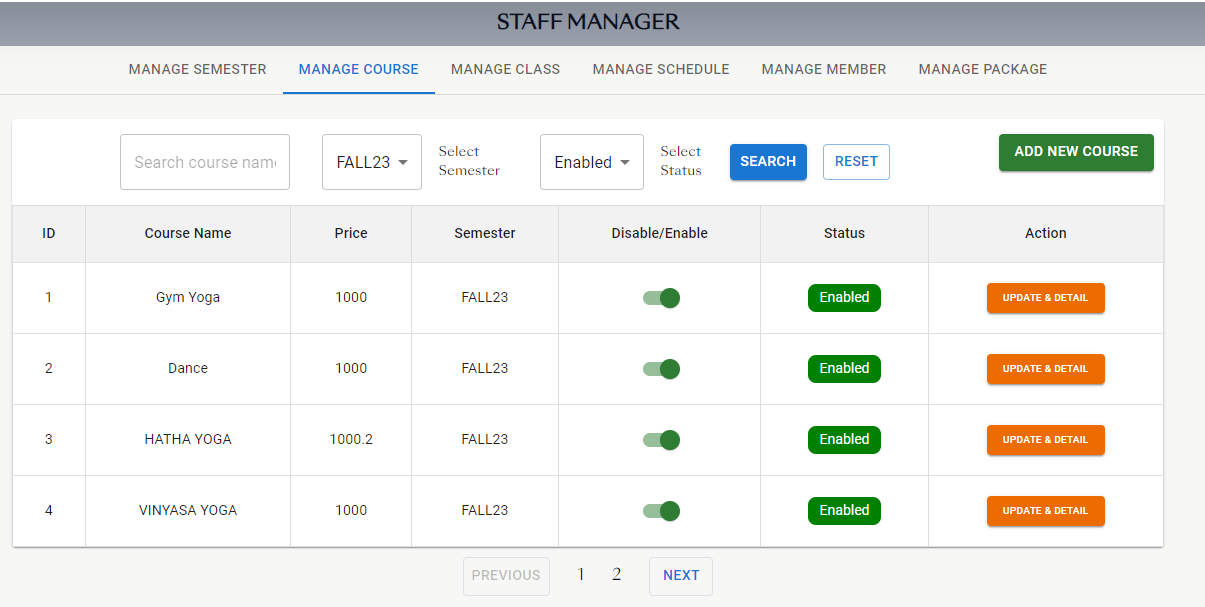
* Function trigger: This function is triggered when the user visits the website or the system to search the course.
* Function description: The user sees the Update Course screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Course screen.



* Function Details: When the user clicks the “Search” button, this page displays the form for searching the course.

#### b.5) Filter Course

* Function trigger: This function is triggered when the user visits the website or the system to filter the course.
* Function description: The user sees the Filter Course screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Course screen.

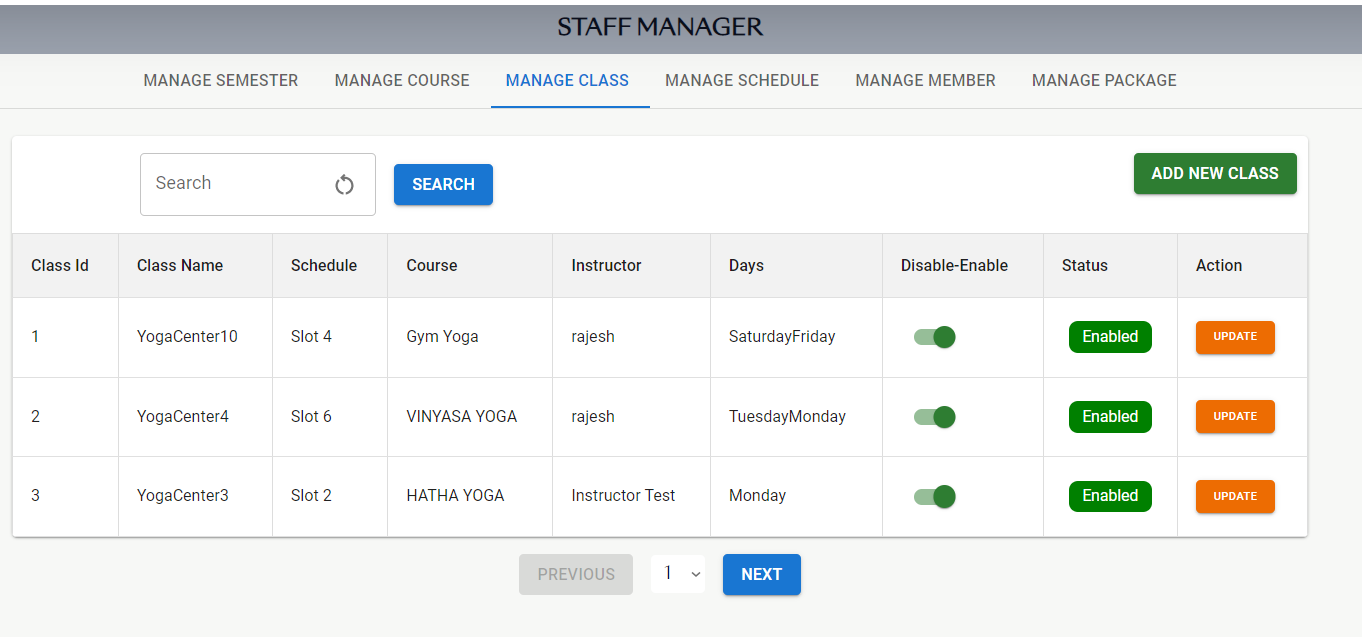


* Function Details: When the user sends the request to filter the course, this page displays the form for filtering the course.

### c. Class Management

#### c.1) View Class List

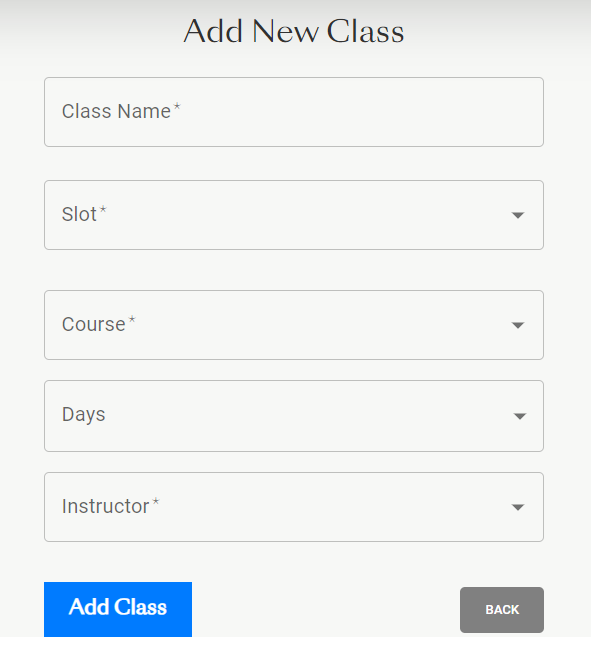
* Function trigger: This function is triggered when the user visits the website or the system to view the class list.
* Function description: The user sees the Manage Class screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Class screen.



* Function Details: When the user sends the request to get the class list, this page displays the form for viewing the class list.

#### c.2) Add Class

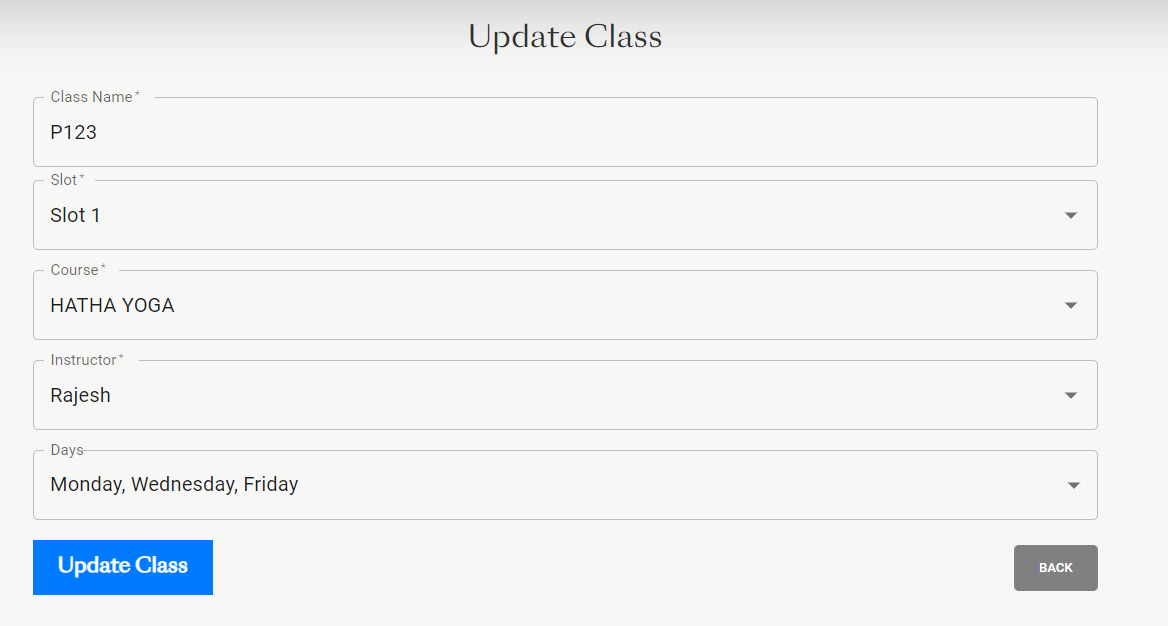
* Function trigger: This function is triggered when the user visits the website or the system to add the class.
* Function description: The user sees the Add Class screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Add Class screen.



* Function Details: When the user clicks on the “Add” button, this page displays the form for displaying information to add the class.

#### c.3) Update Class

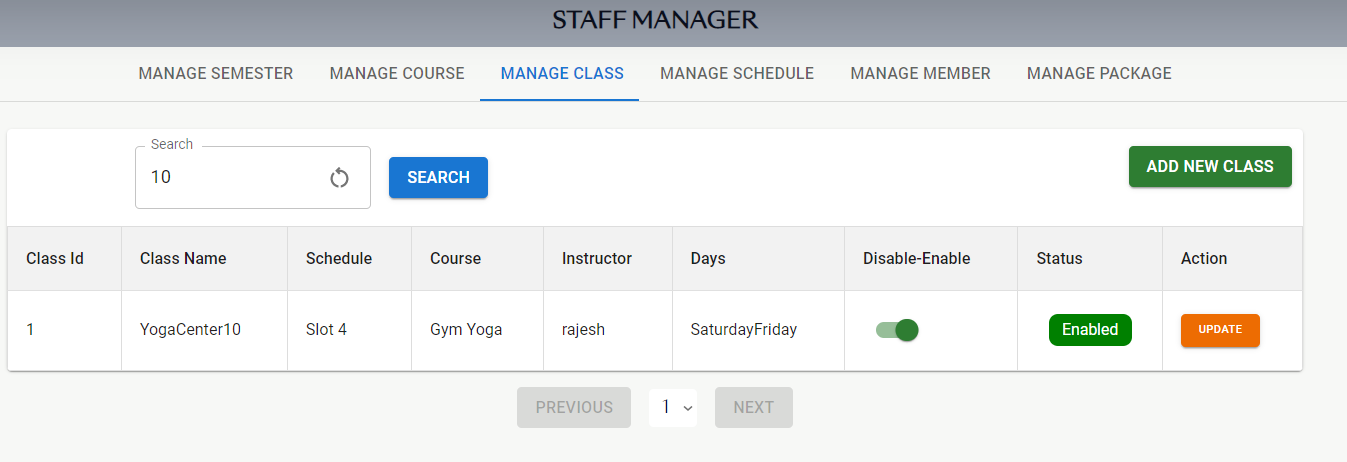
* Function trigger: This function is triggered when the user visits the website or the system to edit the class.
* Function description: The user sees the Manage Class screen.
* Screen layout: simulated screen prototype, the sample below is for the Update Class screen.



* Function Details: When the user clicks the “Update” button, this page displays the form for editing the class.

#### c.4) Search Class

* Function trigger: This function is triggered when the user visits the website or the system to search the class.
* Function description: The user sees the Manage Class screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Class screen.

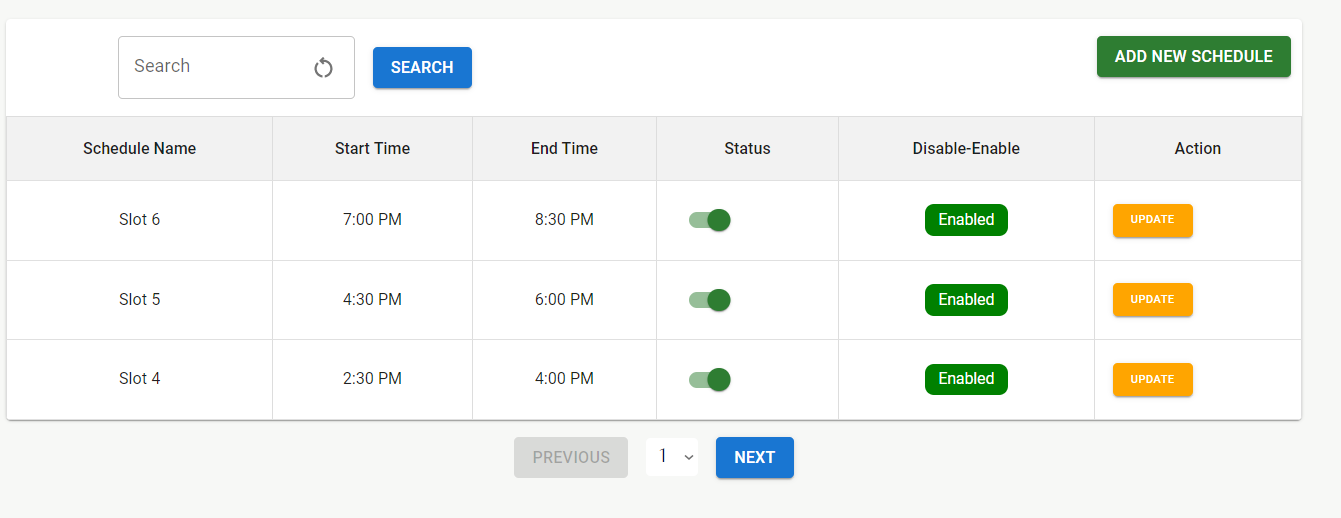


* Function Details: When the user clicks the “Search” button, this page displays the form for searching the class.

### d. Slot Management

#### d.1) View Slot List

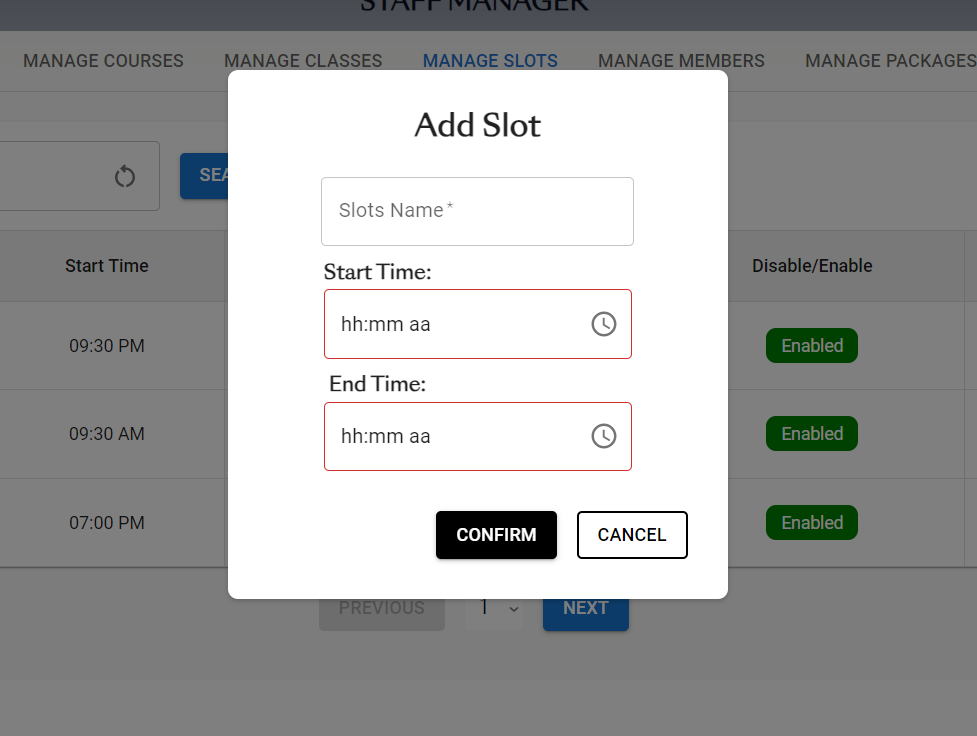
* Function trigger: This function is triggered when the user visits the website or the system to view the slot list.
* Function description: The user sees the Manage Slot screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Slot screen.



* Function Details: When the user sends the request to get the slot list, this page displays the form for viewing the schedule list.

#### d.2) Add slot

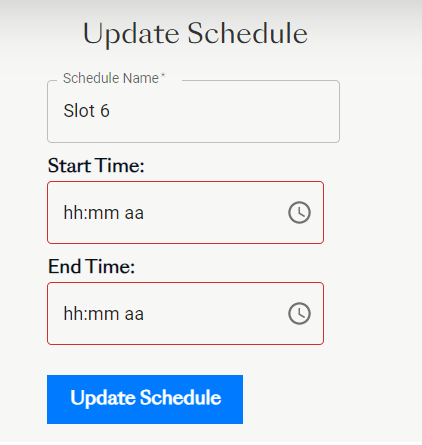
* Function trigger: This function is triggered when the user visits the website or the system to add the slot.
* Function description: The User see the Add Slot screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Add Slot screen.



* Function Details: When users click the payment button, this page displays the form for adding the slot.

#### d.3) Edit slot

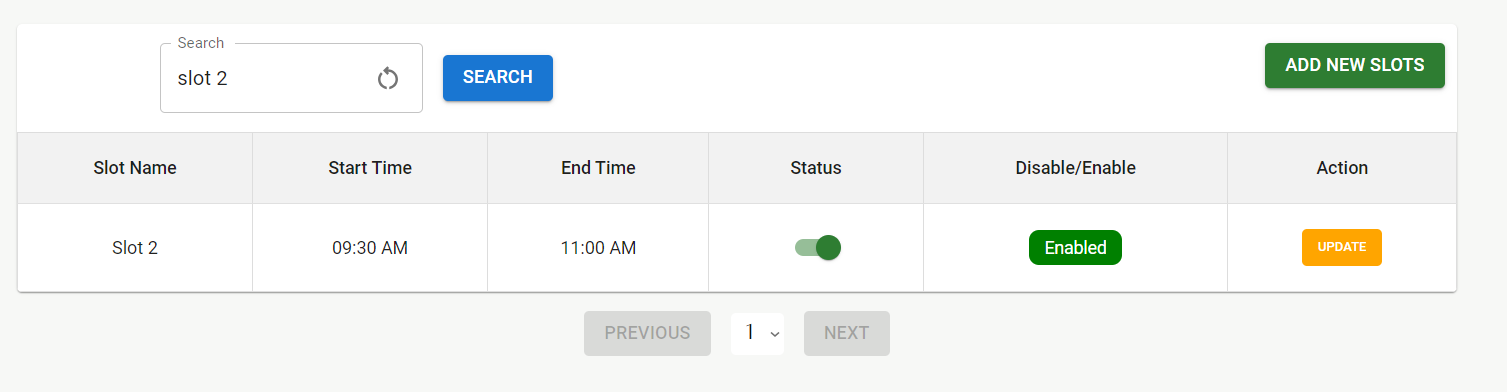
* Function trigger: This function is triggered when the user visits the website or the system to edit the slot.
* Function description: The User sees the Update Slot screen.
* Screen layout: simulated screen prototype, the sample below is for the Update Slot screen.



* Function Details: When the user clicks the “Add” button, this page displays the form for updating the slot.

#### d.4) Search slot

* Function trigger: This function is triggered when the user visits the website or the system to search the slot.
* Function description: The User sees the Manage Slot screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Slot screen.

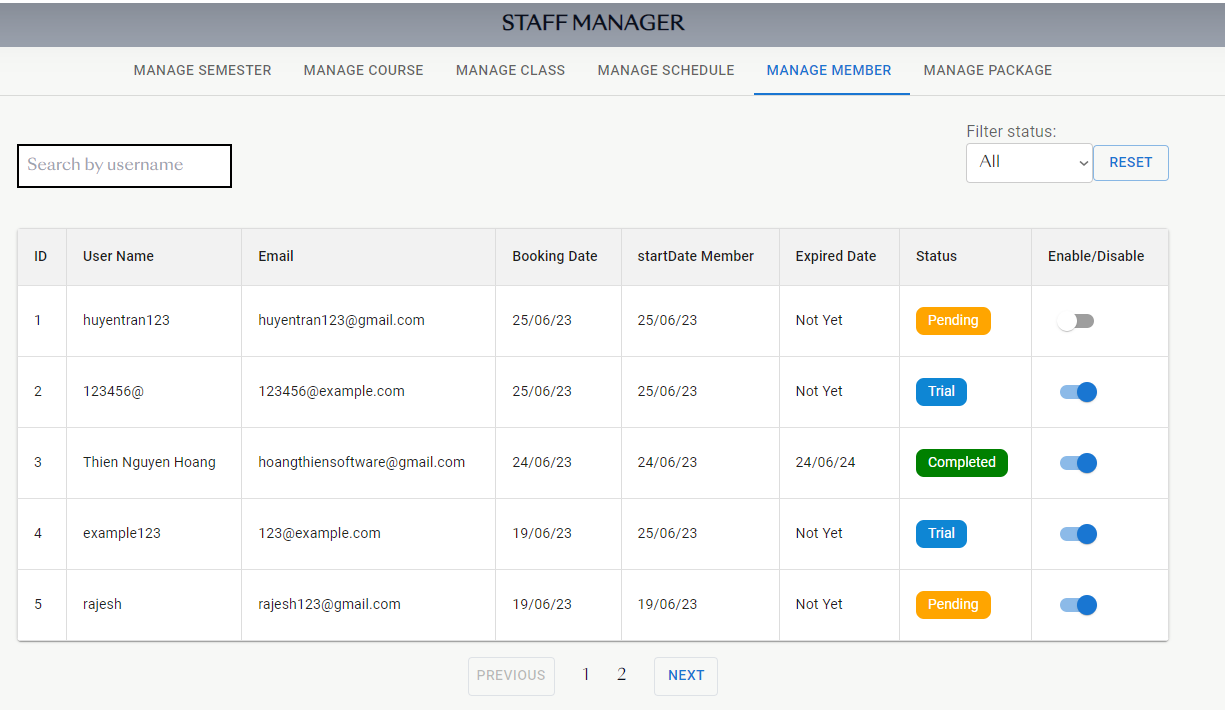


* Function Details: When the user clicks the “Search” button, this page displays the form for searching the slot.

### e. Membership Management

#### e.1) View Member List

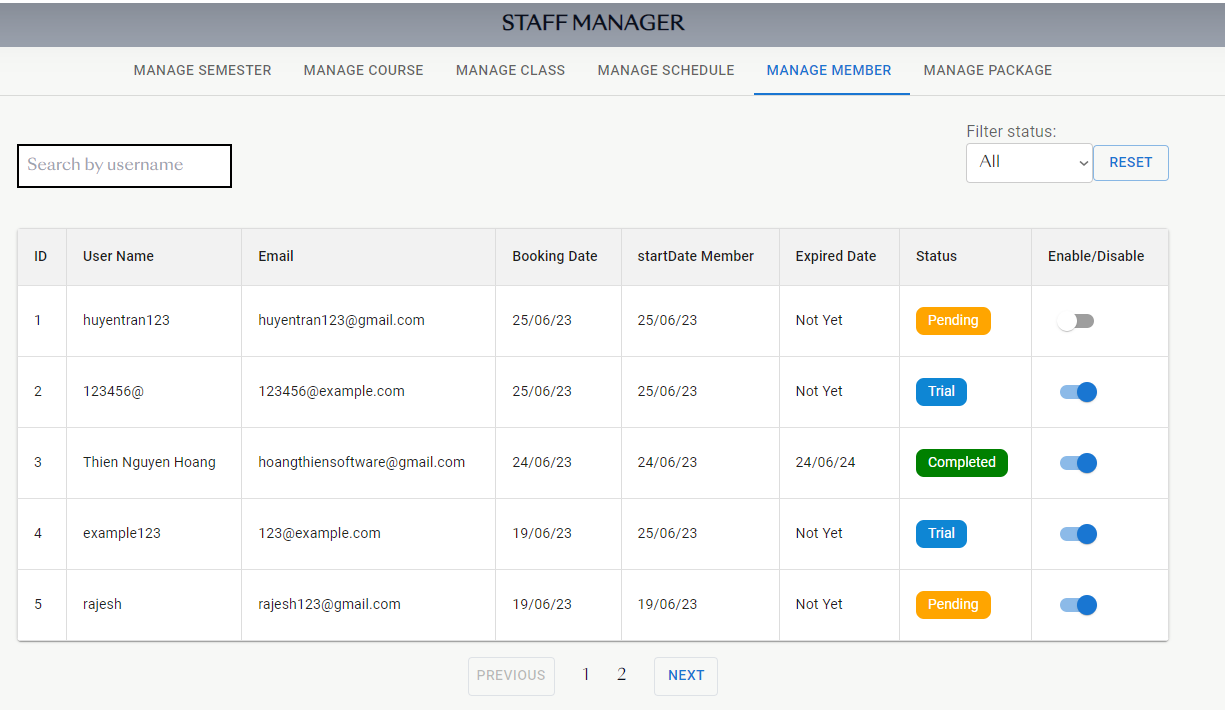
* Function trigger: This function is triggered when the user visits the website or the system to view the member list.
* Function description: The user sees the Manage Member screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Member screen.



* Function Details: When the user sends the request to see the member list, this page displays the form for viewing the member list.

#### e.2) Update the member status

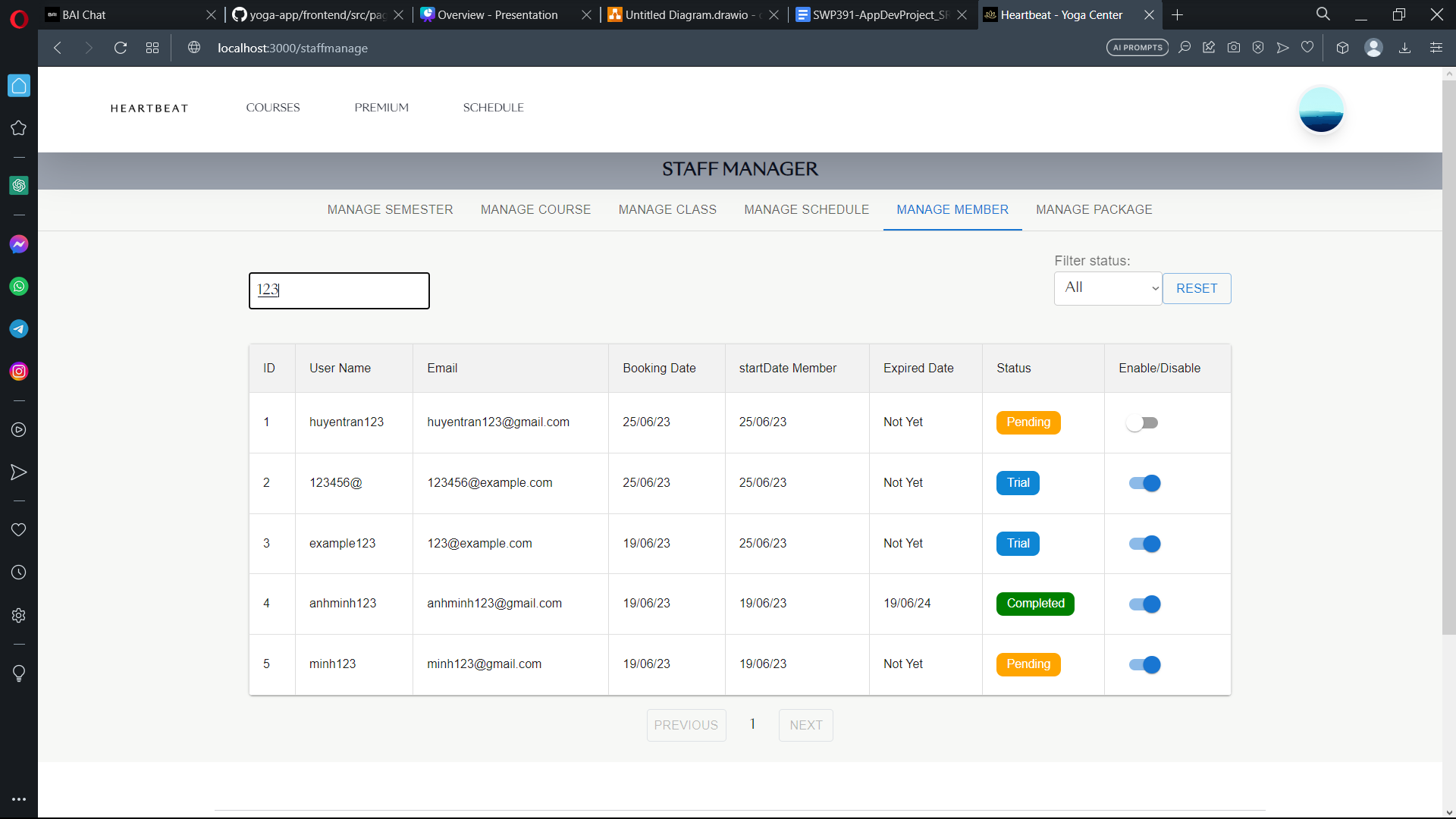
* Function trigger: This function is triggered when the user visits the website or the system to update the member status.
* Function description: The user sees the Manage Member screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Member screen.



* Function Details: When the user clicks on the “Update” button, this page displays the form for updating the member status.

#### e.3) Search Member

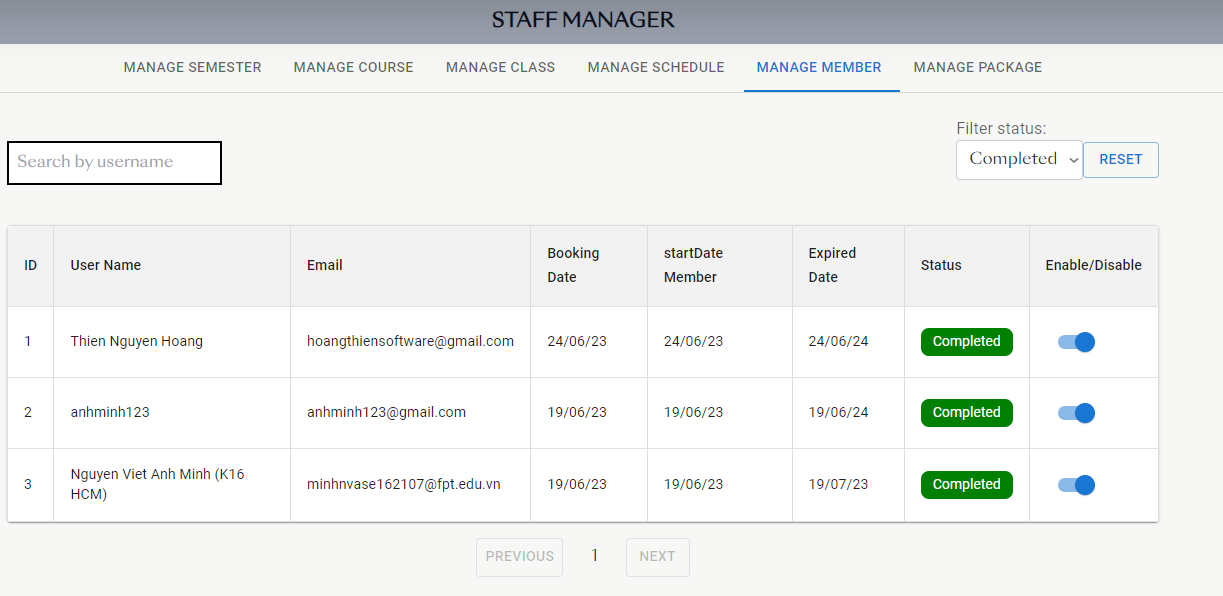
* Function trigger: This function is triggered when the user visits the website or the system to search the member.
* Function description: the user sees the Manage Member screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Member screen.



* Function Details: When the user clicks the “Search” button, this page displays the form for searching for the member.

#### e.4) Filter Member

* Function trigger: This function is triggered when the user visits the website or the system to filter the schedule.
* Function description: The user sees the Manage Member screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Class screen.

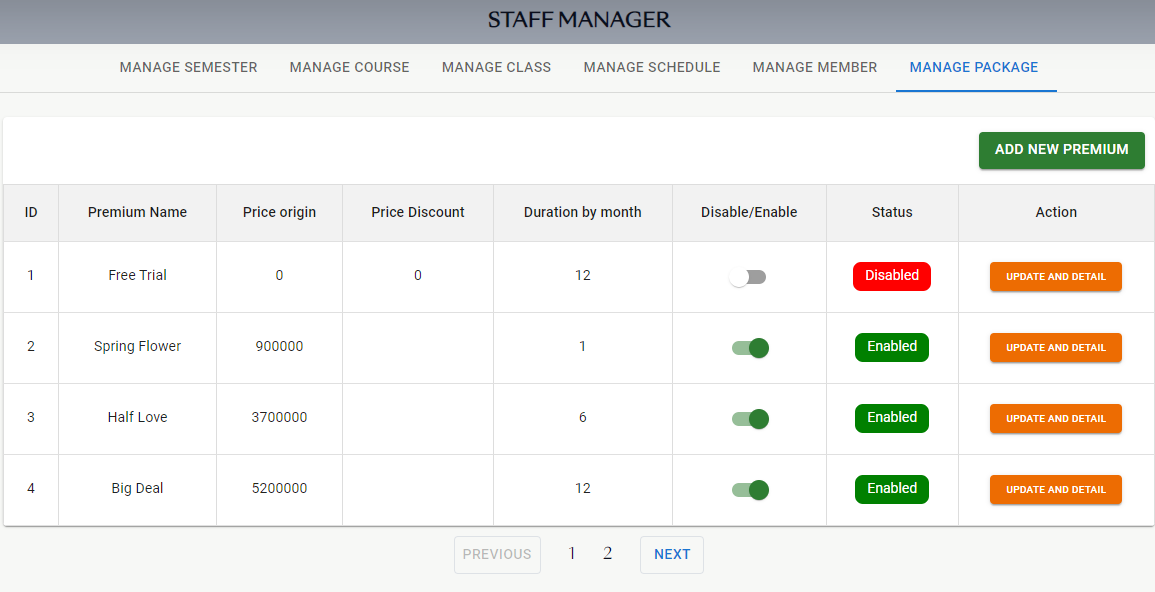


* Function Details: When users click the payment button, this page displays the form for filtering the schedule list.

### f. Package Management

#### f.1) View Package List

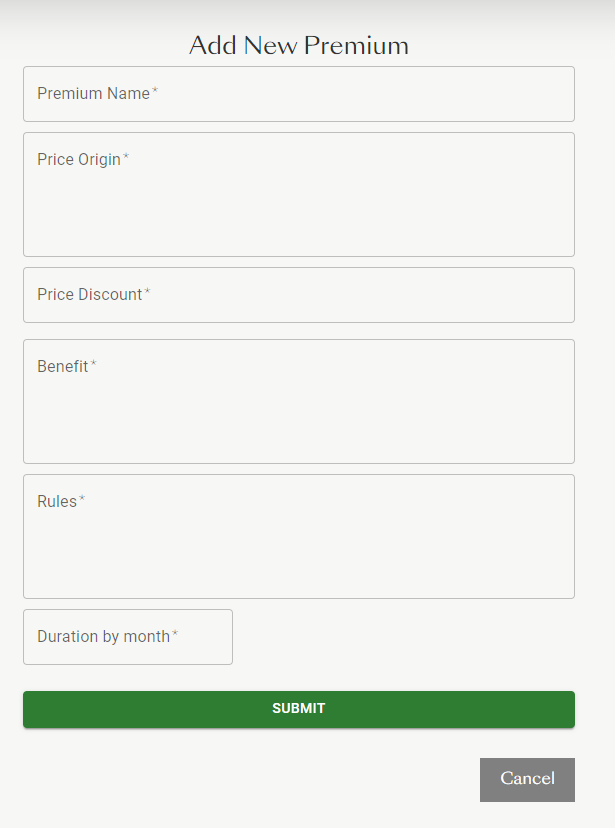
* Function trigger: This function is triggered when the user visits the website or the system to view the package list.
* Function description: The user sees the Manage Package screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Package screen.



* Function Details: When the user sends the request to get the package list, this page displays the form for viewing the package list.

#### f.2) Add Package

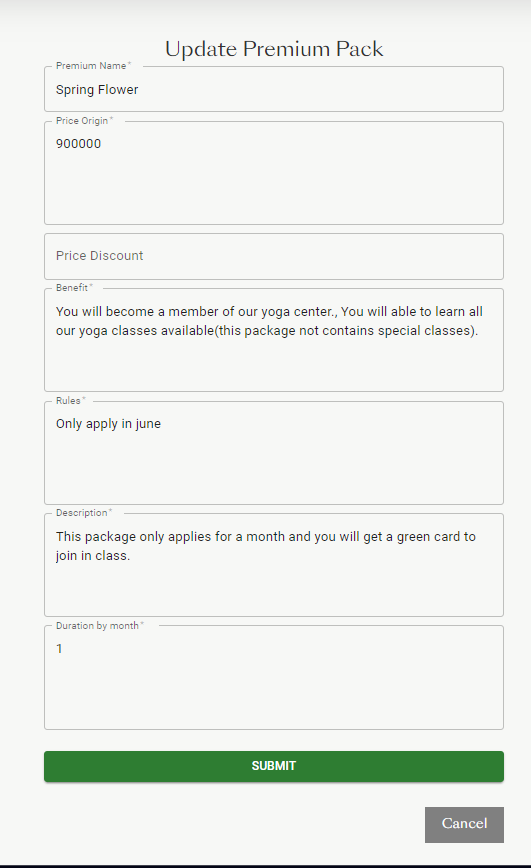
* Function trigger: This function is triggered when the user visits the website or the system to add the package.
* Function description: The user sees the Add Package screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Add Package screen.



* Function Details: When the user clicks the “Add” button, this page displays the form for adding the package.

#### f.3) Update Package

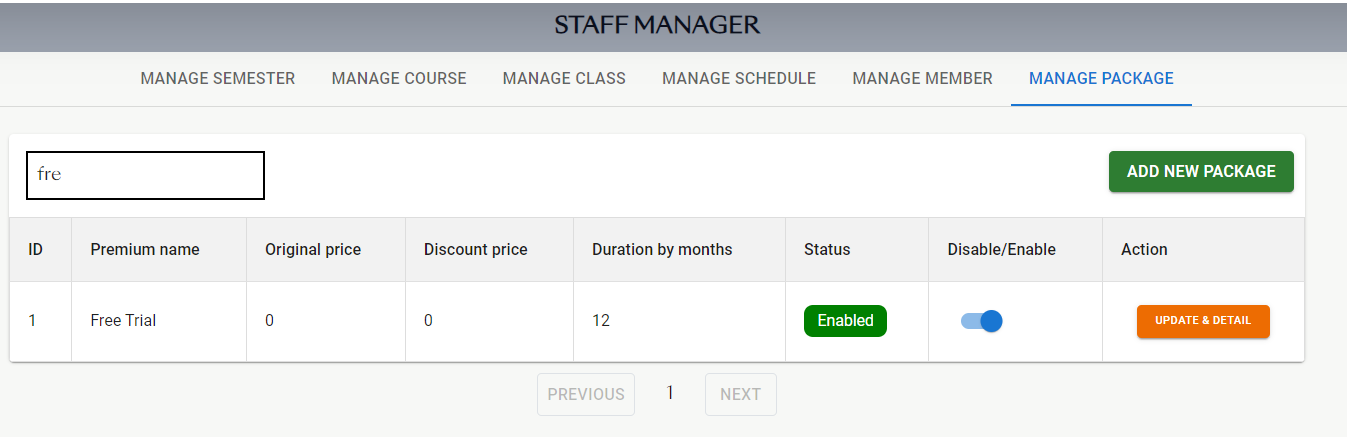
* Function trigger: This function is triggered when the user visits the website or the system to update the package.
* Function description: The user sees the Update Package screen.
* Screen layout: simulated prototype of the screen, the sample below is for the Update Package screen.



* Function Details: When the user clicks the “Update” button, this page displays the form for updating the package.

#### f.4) Search Package

* Function trigger: This function is triggered when the user visits the website or the system to search the package.
* Function description: The user see the Manage Package screen.
* Screen layout: simulated screen prototype, the sample below is for the Mange Package screen.



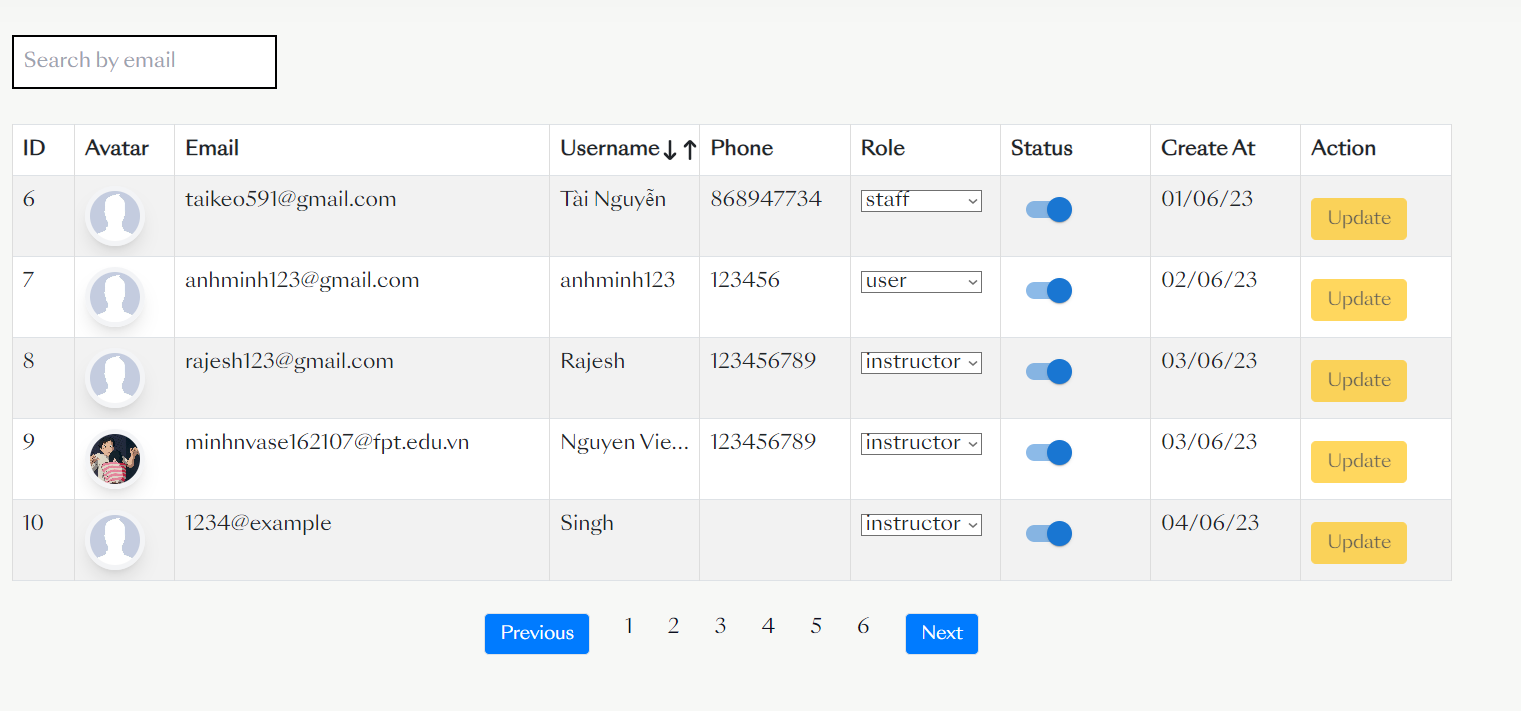
* Function Details: When the user clicks the “Search” button, this page displays the form for searching for the package.

## 5. Admin Feature

### a. Account Management

#### a.1) View Account List

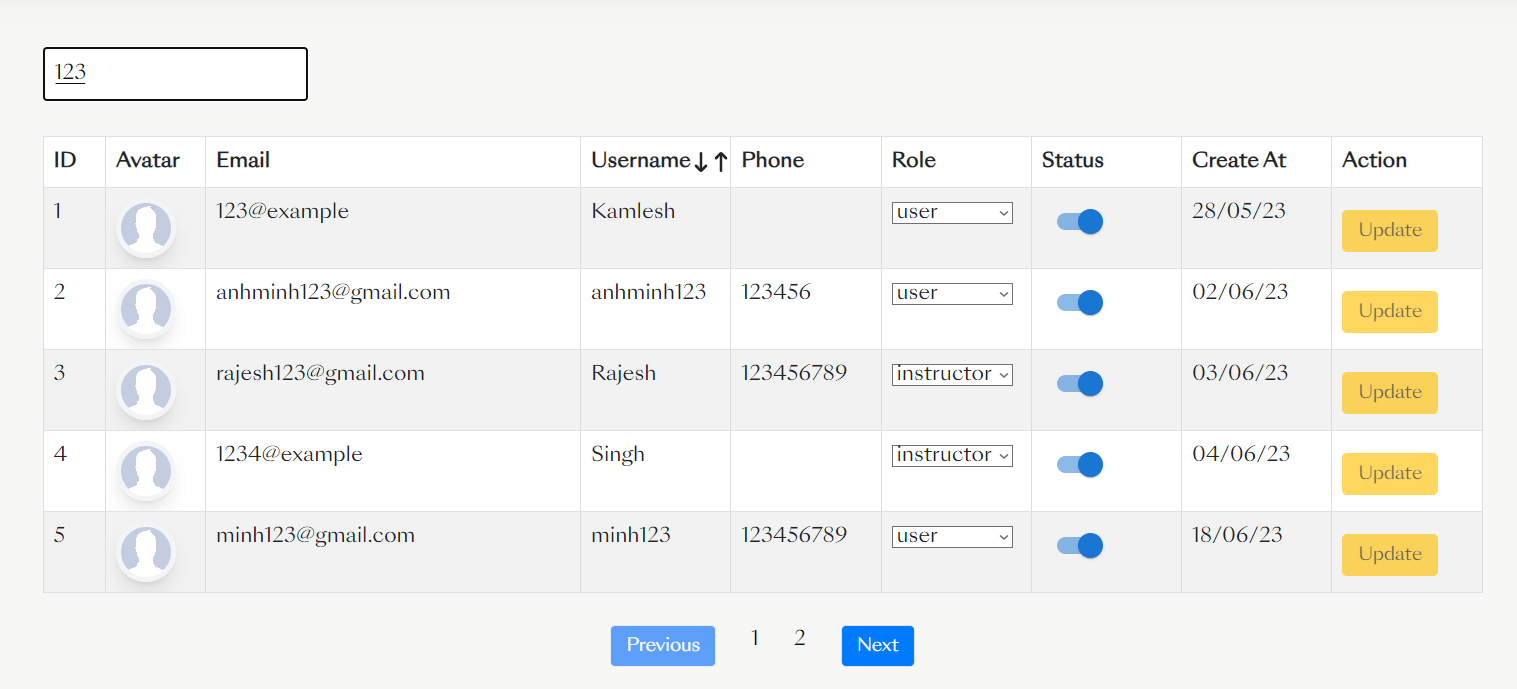
* Function trigger: This function is triggered when the user visits the website or the system to view the account list.
* Function description: The user sees the Manage Account screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Account screen.



* Function Details: When the user sends the request to get the account list, this page displays the form for viewing the account list.

#### a.2) Search Account

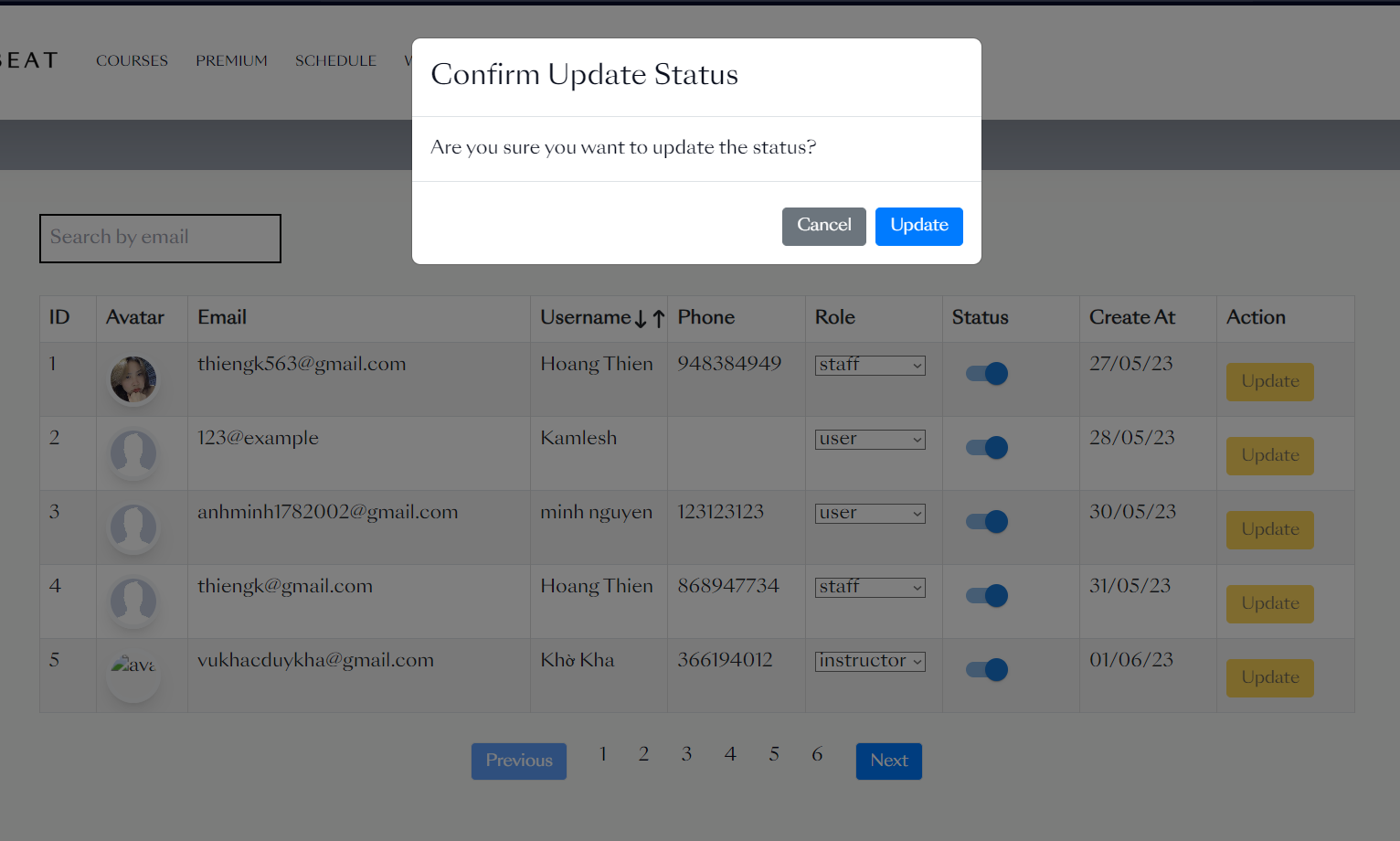
* Function trigger: This function is triggered when the user visits the website or the system to search the account.
* Function description: The user sees the Manage Account screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Account screen.

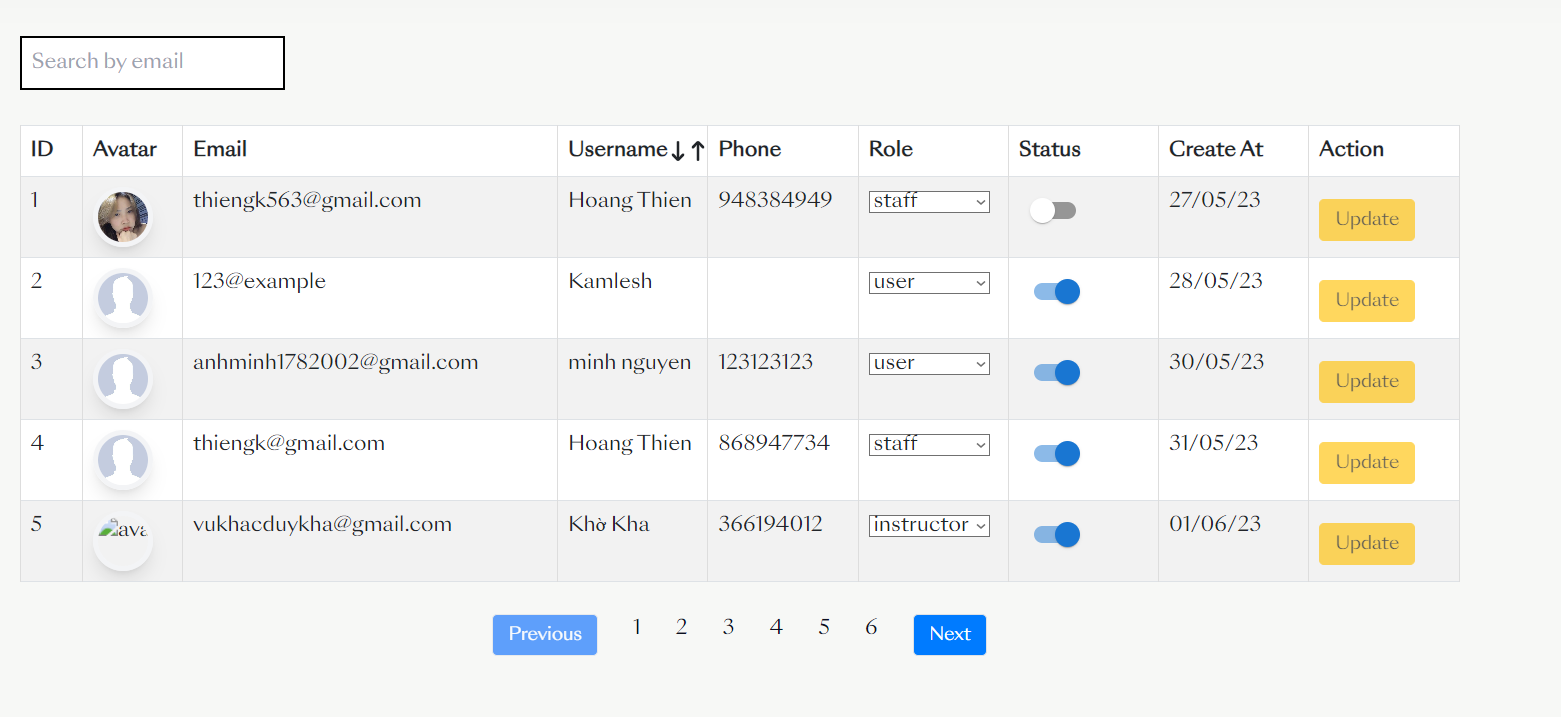


* Function Details: When the users click the “Search” button, this page displays the form for searching for the account.

#### a.3) Update Account Status

* Function trigger: This function is triggered when the user visits the website or the system to update the account status.
* Function description: The user sees the Manage Account screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Account screen.

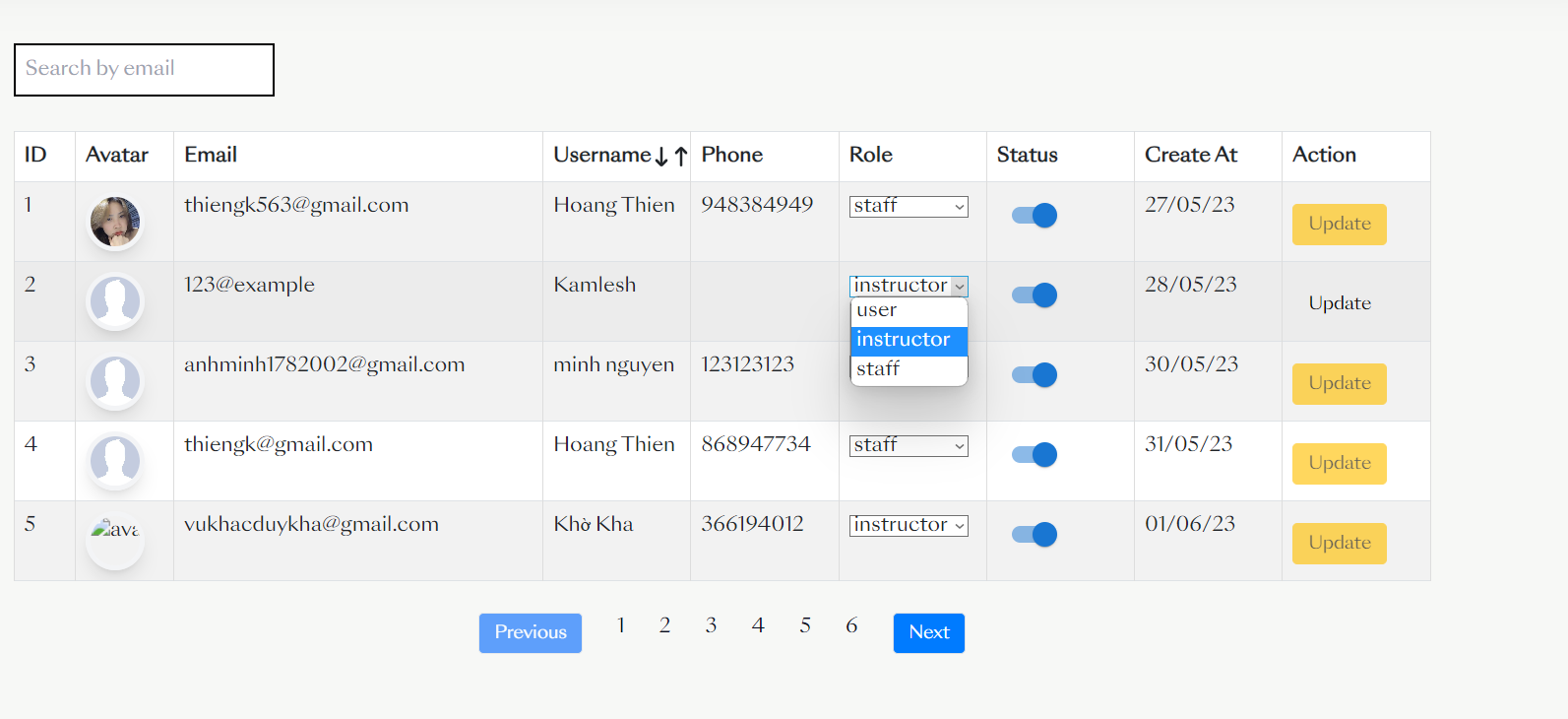




* Function Details: When the users click the “Update” button, this page displays the form for updating the status of the account.

#### a.4) Update Account Role

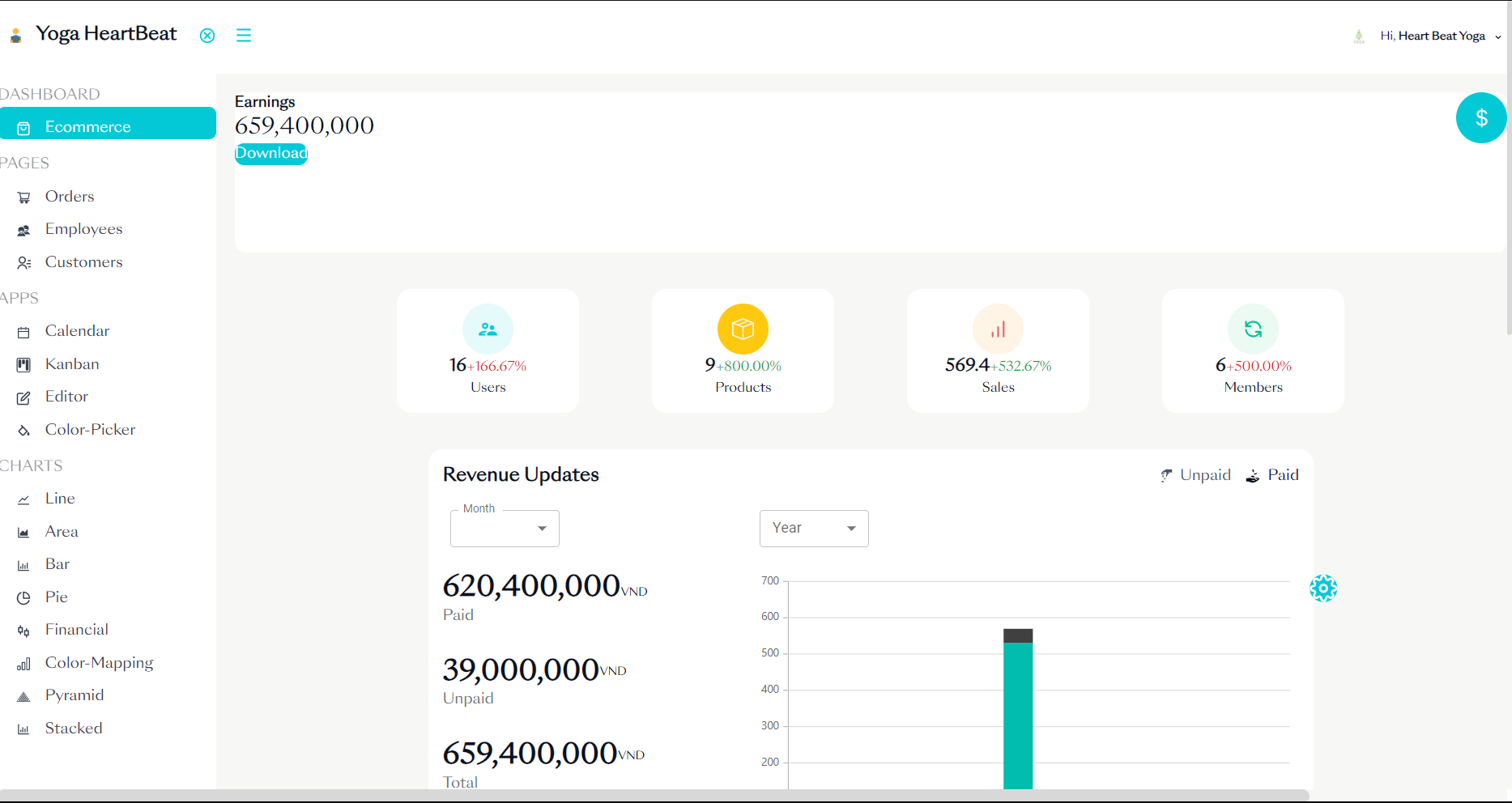
* Function trigger: This function is triggered when the user visits the website or the system to update the account role.
* Function description: The user sees the Manage Account screen.
* Screen layout: simulated screen prototype, the sample below is for the Manage Account screen.



* Function Details: When the users click the “Update” button, this page displays the form for updating the role of the account.

### b. Admin Dashboard

* Function trigger: This function is triggered when the user visits the website or the system to see the information of the application
* Function description: The user sees the Admin Dashboard screen.
* Screen layout: simulated screen prototype, the sample below is for the Admin Dashboard screen.



* Function Details: When the user sends the request to view the dashboard, this page displays the form to see the information about the application