

**HCM UNIVERSITY OF TECHNOLOGY AND EDUCATION**  
**FACULTY OF INFORMATION TECHNOLOGY**



**Capstone Project**  
**DEVELOPING A SOCCER FIELDS**  
**BOOKING MANAGEMENT WEBSITE USING**  
**REACT JS AND NODE JS**

**Lecturer: Le Van Vinh, PhD.**

**Group Members:**

Danh Trường Sơn	20110394
Đặng Phước Trường Tài	20110396
Đặng Thanh Tuyên	20110412

**Ho Chi Minh City, June, 2024**

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THE SOCIALIST REPUBLIC OF VIETNAM

Independence – Freedom– Happiness

Ho Chi Minh City, June 24, 2024

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Topic name: Developing a soccer fields booking management website using React JS and Node JS.

Name of Advisor: Lê Văn Vinh, PhD

### COMMENTARY

1. On content of topic & workload done:

.....  
.....  
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2. Advantage:

.....  
.....

3. Disadvantage:

.....  
.....

4. Recommend for defense or not? .....

5. Rating type: .....

6. Mark: .....(By word: .....)

Ho Chi Minh, ..... 2024

ADVISOR

(Name and signature)



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## CHAPTER 1: INTRODUCTION

### 1.1. DESCRIPTION OF THE TOPIC

The group's topic is to design a website application that can help users and football players book soccer fields online, as well as help field owners easily promote and reach with more people playing the sport of soccer.

### 1.2. RESEARCH OBJECTS AND SCOPE

The group's topic is to design a website application that can help users and football players book soccer fields online, as well as help field owners easily promote and reach them. with more people playing the sport of soccer. Surveying users' need to book a football field.

Through a survey of students at Ho Chi Minh City University of Technical Education, up to 60% of students have a need to book a football field online. There are many mixed opinions about this option, but most people want a soccer field booking website to make controlling appointments as well as money easier and more convenient. Therefore, we want to build an application that helps satisfy users' needs. Helping users make appointments for football fields. In addition, pitch owners can also post information about their football field. Make it easier to connect with football players.

### 1.3. RELATED WORKS

#### 1.3.1. Sport World

- **Link:** <https://thegioithethao.vn>
- **Homepage:**



Figure 1: Sport World Homepage

- **Main function:**
  - + View, search, filter pitch
  - + Choose location
  - + Show the current information of the pitch (empty, booked, playing)
  - + Booking pitch
  - + Checkout
  - + Rating pitch
- **Strengths:**
  - + Products are show with live photo
  - + You can look up order information (Utilities: Wifi, Parking lot, Shop)
- **Weaknesses:**
  - + Login and Sign Up Not Working
  - + Cannot be scheduled with another team
  - + No search results suggestions yet

- + The header is not reasonable
- + Website design is not eye-catching
- + Products have not been classified in detail (Price, Type of Stadium, Reviews)

### 1.3.2. Sport Finder

- **Link:** <https://datsantructuyen.vn/>
- **Homepage:**

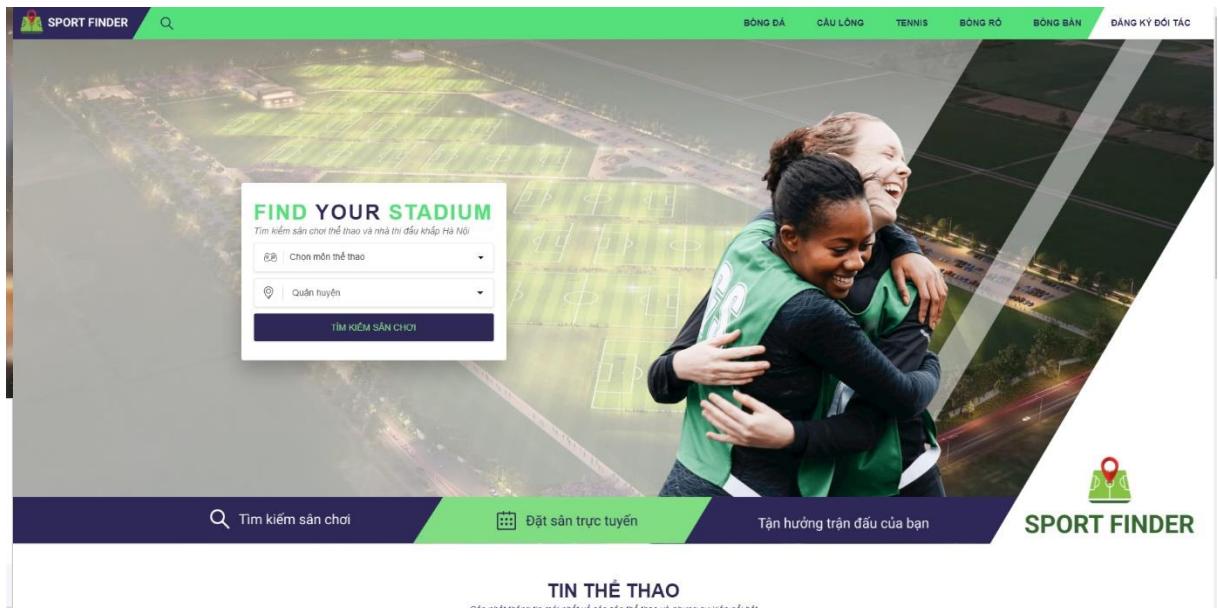


Figure 2: Dat San Truc Tiep Homepage

- **Main function:**
  - + View, search, filter pitch
  - + Choose location
  - + Booking pitch (send a request to manage by fill in the form)
  - + Rating pitch
- **Strengths:**

- + Products are show with live photo
- + You can look up order information (Utilities: Wifi, Parking lot, Shop)
- + Including many sport (badminton, basketball, tennis, ping-pong)
- + UI/UX is friendly
- + Can view the address of the pitches in google map.
- + Can find the pitches according to many criteria (votes, location, type)
- **Weaknesses:**
  - + Don't have Login and Sign Up
  - + Cannot be scheduled with another team
    - + Can not create account for check out or deposit the money

### 1.3.3. Pitch Booking

- **Link:** <https://pitchbooking.com/>
- **Homepage:**

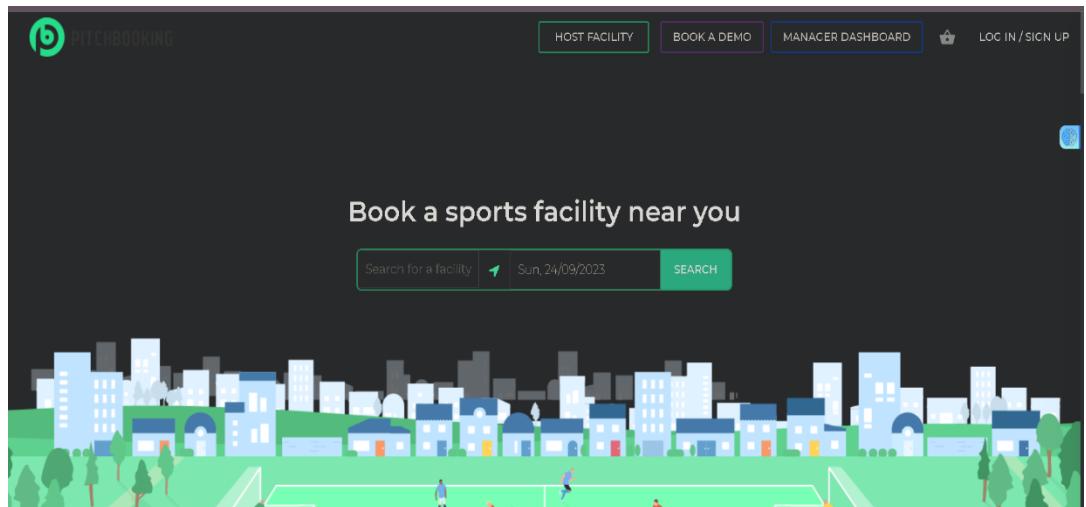


Figure 3: Pitch Booking home page

- **Main function:**

- + View, search, filter pitch
  - + Choose location
  - + Booking pitch (send a request to manage by fill in the form)
  - + Rating pitch
  - + Have manager Dashboard
  - + Have Login and Sign Up
  - + Can book a demo
- **Strengths:**
- + UI/UX is friendly
  - + Can find the pitches according to address
  - + Including many sport (badminton, cricket, Rugby, Hockey...)
  - + Can choose type of pitches and size
- **Weaknesses:**
- + Cannot be scheduled with another team
    - + Products are not show with photos
    - + You cannot look up order information
    - + Can not communicate with pitch owners

## CHAPTER 2: FUNDAMENTALS

### 2.1. FRONT-END DEVELOPMENT TECHNOLOGIES

#### 2.1.1. ReactJS Framework

**ReactJS** is a free open-source frontend JavaScript library created by Facebook's Jordan Walke to make user interfaces for both web and mobile systems based on components. React provides reusable code; this will take less time and can show the parts of the UI that are changing without re-rendering the whole page. This makes the user experience much better, making the website feel faster. React also comes with two main features, making it stand out in the development. Number 2

**JSX (JavaScript Syntax Extension):** It is a syntactic extension that allows developers to write HTML in React more easily and place them in the DOM without any additional methods. JSX is utilized by React for creating templates instead of conventional JavaScript. Using JSX provides several benefits, such as enabling the rapid development of React applications, making it easier to optimize code compilation to JavaScript. JSX also allows React to display more comprehensive error information, resulting in greater efficiency. Number 2

**Virtual DOM (Document Object Model):** DOM stands for Document Object Model. It is the most crucial aspect of web development since it splits the code into modules and then executes it. When using JSX to manipulate and update the DOM, ReactJS creates a copy of the DOM called the Virtual DOM. React then compares the DOM and the Virtual DOM to determine which parts actually need to be changed whenever users interact with the page. React will selectively update the corresponding portion of the DOM. This significantly saves computational power and loading time. Number 2

### 2.1.2. TailWind CSS

Tailwind CSS is a utility-first CSS framework, similar to Bootstrap, Tailwind has built-in classes that we can use, encompassing various and crucial CSS properties. We can easily extend and create new classes based on its existing ones. Tailwind CSS facilitates the fastest website development with CSS properties already assigned as separate classes, making it straightforward to invoke and utilize. Number 1

## 2.2. BACK-END DEVELOPMENT TECHNOLOGIES

### 2.2.1. NodeJS

Node.js is an open-source, cross-platform JavaScript runtime environment that executes JavaScript code server-side. It is built on the V8 JavaScript runtime engine, which is the same engine that powers the Google Chrome browser. Node.js enables developers to use JavaScript for server-side scripting, allowing them to build scalable and high-performance network applications. Number 3

Node.js has gained popularity in the development community due to its speed, scalability, and the ability to use a single language (JavaScript) throughout the entire development stack. It has become a go-to choice for building modern web applications and server-side solutions. Number 3



Figure 4: Node Js Application

### **2.2.2. ExpressJS**

Express.js, commonly referred to as Express, is a minimal and flexible web application framework for Node.js. It provides a set of robust features to develop web and mobile applications quickly and with a minimal amount of code. Express.js is designed to be unopinionated, allowing developers the freedom to structure their applications according to their preferences while providing essential tools for building scalable and maintainable web servers. Number 5

Express.js is a web application framework that simplifies the process of building web applications and APIs using Node.js. It provides a set of tools and conventions for handling common web development tasks.

### **2.2.3. MongoDB**

MongoDB is a widely used open-source NoSQL database management system that provides a flexible and scalable solution for storing, retrieving, and managing data. The name "MongoDB" is derived from the term "humongous" to emphasize its ability to handle large volumes of data. Number 4

MongoDB is classified as a NoSQL database, meaning it doesn't rely on the traditional relational database management system (RDBMS) model. Number 4 It is particularly well-suited for handling unstructured or semi-structured data.

MongoDB is widely used in various applications, ranging from small-scale projects to large, enterprise-level systems, due to its flexibility, scalability, and ease of use for developers working with modern, dynamic data models.

## CHAPTER 3: REQUIREMENTS

### 3.1. USER REQUIREMENTS

#### 3.1.1. Functional requirements

The system consists of the following main components:

1. Guest section:

- View the information about the pitches
- Register to the system
- Filter, find pitches
- View news
- View Faq's
- Communicate with Chatbot

2. User section:

- Post and display personal information
- Change personal password
- Make payment
- View personal payment history
- Make, update, cancel booking
- View the information about the pitches, filter, find pitches
- View and delete notifications
- Make, update, delete ratings and comment
- Apply discount

3. Pitch Owner section:

- Pitch management
  - Adding pitches

- Deleting pitches
- Updating pitches
- Viewing detail's pitches
  - Booking orders management
  - Viewing booking orders
  - Deleting booking orders
- Manage discount
  - Adding discount
  - Updating discount
  - Deleting discount
- Manage notifications
  - Adding notifications
  - Updating notifications
  - Deleting notifications
- Manage statistics
  - View revenue statistics
  - View order statistics
- Brand management
  - Adding brand
  - Updating brand
  - Deleting brand

### 4. Admin section:

All the functions of the pitch owner and the following additional functions:

- User management
  - Adding user
  - Deleting user

- Updating user
- Category management
  - Adding category
  - Deleting category
  - Updating category
- News management
  - Adding news
  - Deleting news
  - Updating news
- FAQ management
  - Adding Faq's
  - Deleting Faq's
  - Updating Faq's
- Notifications management
  - Adding notifications
  - Deleting notifications
  - Updating notifications

### 5. Application section:

- Dark mode/ Light mode
- Online Payment
- Bilingual function

#### **3.1.2. Non-functional requirements**

- The system ensures ease of use for users
- Application runs smoothly

## 3.2. REQUIREMENTS MODELING

### 3.2.1. Use case diagram

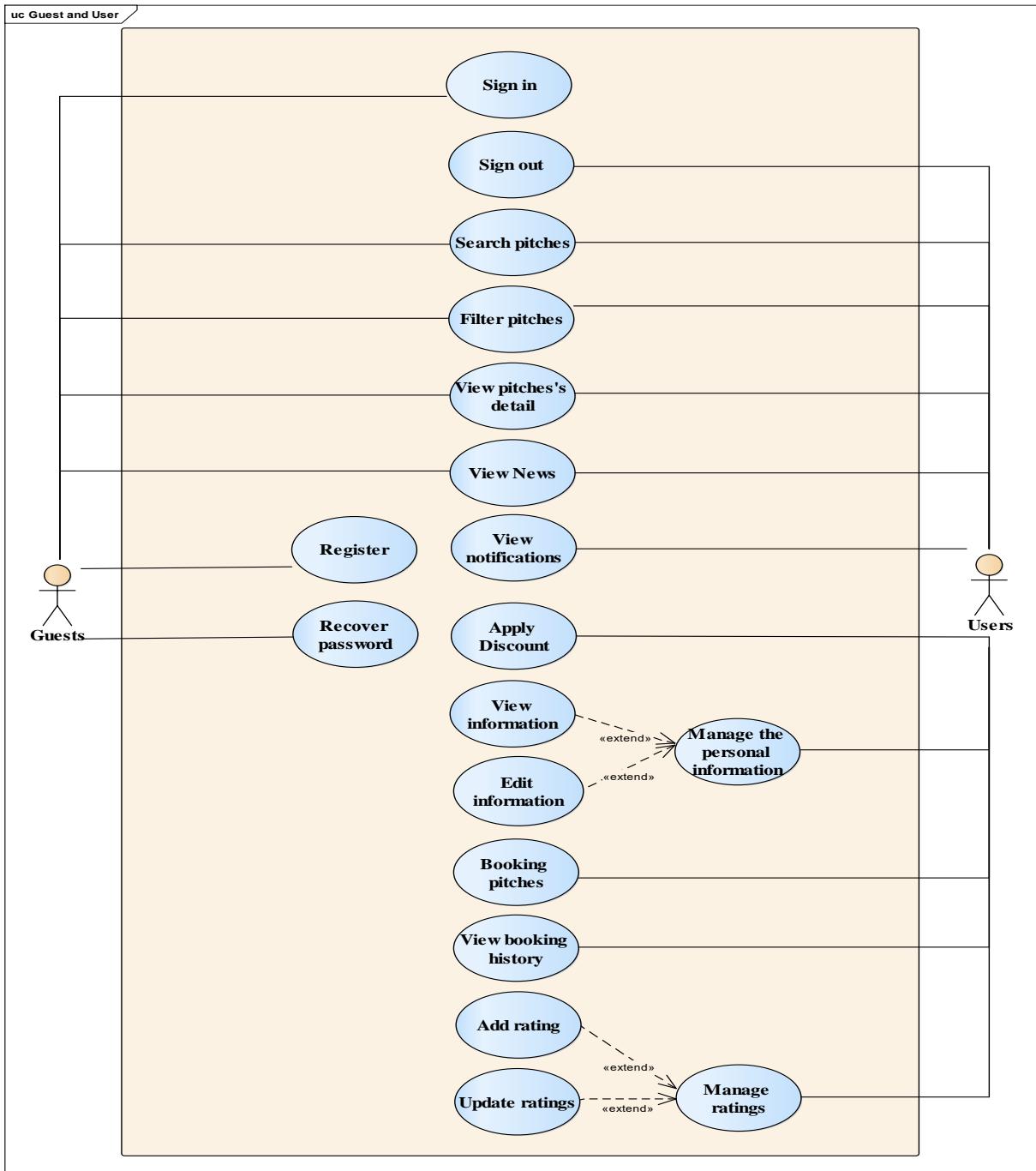


Figure 5: Use case diagram of guest and user

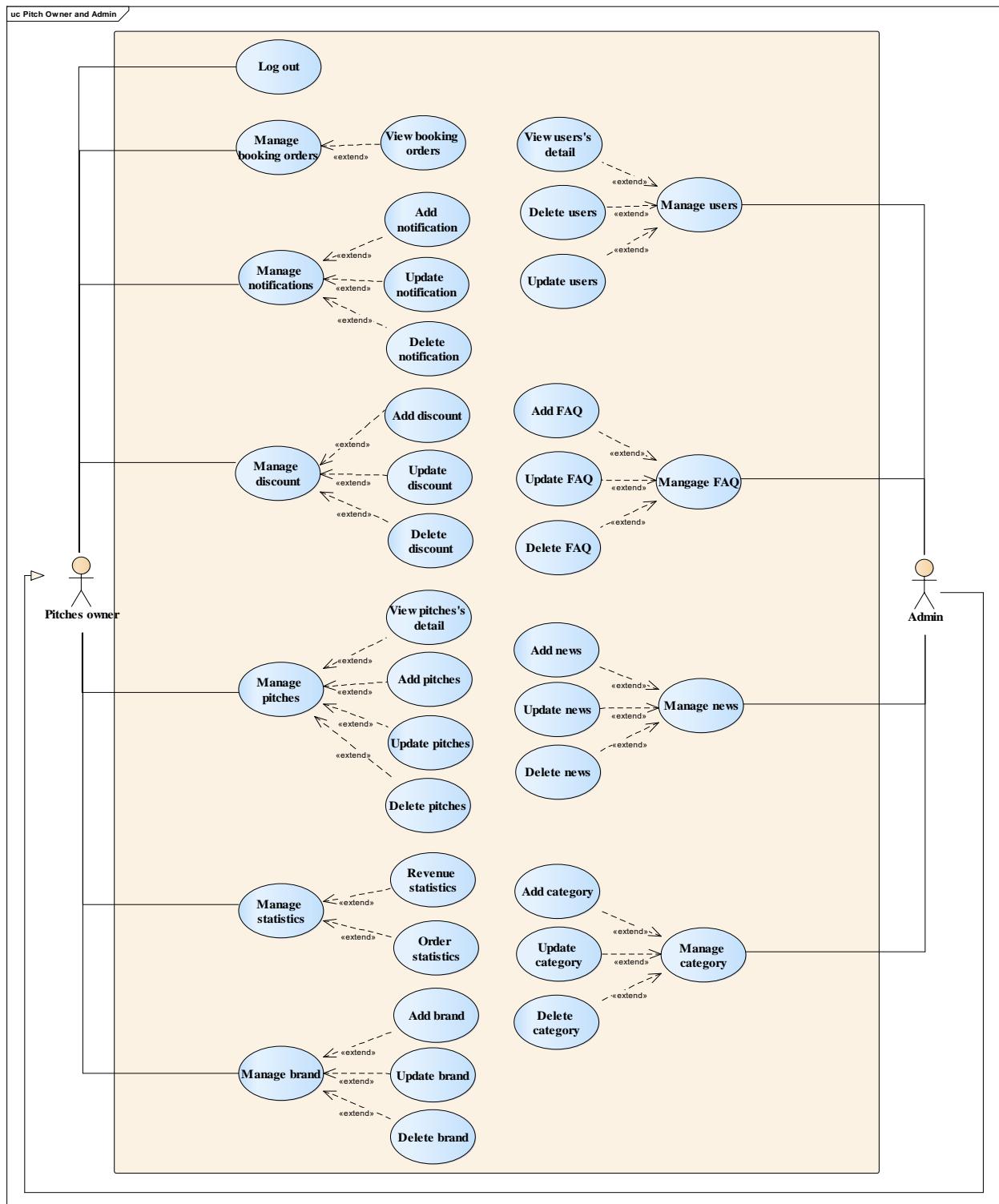


Figure 6: Use case diagram of pitch owner and admin

### 3.2.2. Use case specifications

#### 3.2.2.1. Use case “Sign In”

Use Case ID	UC_SI
Use Case Name	Log in
Description	This use case allows the actor to login to the website
Actor	User, Pitch Owner, Administrator
Pre-Condition(s)	The actor's account has already been created
Post-Condition(s)	The actor successfully logged into the website
Basic Flow	<ol style="list-style-type: none"><li>1. Actor clicks “Sign in, Create account” button on the top header</li><li>2. The system displays the Sign In page</li><li>3. Actor enter the created account and password [E1]</li><li>4. Actor click Sign In button</li><li>5. The system checks Sign In information [E2]</li><li>6. The system moves the actor to the Homepage</li></ol>
Alternative Flow	

Exception Flow	<p>[E1]. If the input account is empty or the password or both, show warning message</p> <p>[E2]. If the account or password is incorrect, show warning message</p>
----------------	---

*Table 1: Use case sign in*

### 3.2.2.2. Use case “Sign Up”

Use Case ID	UC_SU
Use Case Name	Sign Up
Description	This use case allows the actor to register a personal account to log in to the website
Actor	Guest
Pre-Condition(s)	
Post-Condition(s)	Successful account registration
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor clicks the “Sign in, Create account” button in top header</li> <li>2. The system displays the Sign In page</li> <li>3. Click to Sign Up</li> <li>4. The actor fills in the information</li> </ol>

	<p>5. The actor clicks the Register button</p> <p>6. The system verifies the registration information [E1]</p> <p>7. The system redirects to the login page</p>
Alternative Flow	
Exception Flow	[E1] If the email already exists, the system displays an error message and requests the Actor to enter a different email

*Table 2: Use case sign up*

### 3.2.2.3. Use case “Sign Out”

Use Case ID	UC_SO
Use Case Name	Sign Out
Description	This use case allows the actor to sign out of the actor's account from the website
Actor	User, Pitch Owner, Administrator
Pre-Condition(s)	The actor has logged into the system
Post-Condition(s)	The actor is logged out of the account on the website
Basic Flow	<p>1. The actor selects “Sign Out” in the top header</p>

	<ul style="list-style-type: none"> <li>2. The system deletes the user's session</li> <li>3. The system redirects the actor to the Homepage</li> </ul>
Alternative Flow	
Exception Flow	

*Table 3: Use case sign out*

#### *3.2.2.4. Use case “Recover password”*

Use Case ID	UC_RP
Use Case Name	Forgot password
Description	This use case allows the actor to reset their password
Actor	User, Pitch Owner
Pre-Condition(s)	The actor has registered an account
Post-Condition(s)	The actor has set a new password
Basic Flow	<ul style="list-style-type: none"> <li>1. The actor clicks the “Sign in or Create Account” button in top header</li> <li>2. The system displays the Sign In page</li> </ul>

	<ol style="list-style-type: none"> <li>3. The actor clicks “Forgot password”</li> <li>4. The system displays a Forgot Password page</li> <li>5. The Actor enters the email address</li> <li>6. The Actor clicks "Submit" button</li> <li>7. The system checks the email address [E1]</li> <li>8. The system sends a link to email to recover the password</li> <li>9. The actor accesses the page to reset the password via the link received in Gmail</li> <li>10. The actor enters the new password and confirms the new password and clicks "Submit"</li> <li>11. The system verifies the validity of the new password [E2]</li> <li>12. The system saves the new password</li> <li>13. The system redirects the actor to the login page</li> </ol>
Alternative Flow	
Exception Flow	<p>[E1] If the Actor enters an invalid email, the system will display an error message and request the Actor to enter a valid email</p> <p>[E2] If the Actor enters a mismatched confirmation password, the system will notify and request the Actor to retype the confirmation password</p>

*Table 4: Use case recover password*

*3.2.2.5. Use case “Filter pitches”*

Use Case ID	UC_FP
Use Case Name	Filter pitches
Description	This use case allows the actor to filter pitches based on criteria such as location, price, rating, etc....
Actor	Guest, User, Pitches Owner
Pre-Condition(s)	
Post-Condition(s)	The system displays pitches that match the actor's filtering criteria
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor clicks Pitches section on the navigation bar</li> <li>2. The system displays list pitches and filtering criteria (e.g., price, location, date, alphabet)</li> <li>3. The actor selects the filtering criteria that they want to apply</li> <li>4. The system displays the filtered pitches list [E1]</li> </ol>
Alternative Flow	
Exception Flow	[E1] If there are no pitches, display “No pitch to show”

*Table 5: Use case filter pitches*

*3.2.2.6. Use case “View pitch detail”*

Use Case ID	UC_VPD
Use Case Name	View pitches’ detail
Description	This use case allows the actor to view filter details when the Actor clicks on the pitch, they want to view
Actor	Guest, User, Pitch Owner
Pre-Condition(s)	
Post-Condition(s)	The actor can view pitch details
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor select one Pitch on the page</li> <li>2. The system displays the pitch detail page.</li> </ol>
Alternative Flow	
Exception Flow	

*Table 6: Use case view pitch detail*

*3.2.2.7. Use case “View booking history”*

Use Case ID	UC_VBO
Use Case Name	View booking history
Description	This use case allows the actor to view the history that they booking the pitch
Actor	User
Pre-Condition(s)	The actor has logged into the system
Post-Condition(s)	
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor select the “Personal” page</li> <li>2. The actor select view “Booking histories”</li> <li>3. The system displays a list of purchased orders history [E1]</li> </ol>
Alternative Flow	
Exception Flow	[E1] If there are no pitches in actor purchase history. Display "Show orders 0 – 0 of 0"

*Table 7: Use case view booking history*

*3.2.2.8. Use case “Rating”*

Use Case ID	UC_R
Use Case Name	Rating
Description	This use case allows the Actor to rating pitch
Actor	User
Pre-Condition(s)	The actor has logged into the system and have booking pitch they want to rate at least one time
Post-Condition(s)	The actor success adds a new rating for a pitch
Basic Flow	<ol style="list-style-type: none"> <li>1. Actor select a pitch in Pitches page [A1]</li> <li>2. The actor click on “Rating now!” [E1]</li> <li>3. Comment input and rating starts show on, actor fill the input and choose rating starts</li> <li>4. System check the validation of the input and rating start [E2]</li> <li>5. System show the comment and star the user hast just rated</li> </ol>
Alternative Flow	

Exception Flow	<p>[E1] If the user does not login it will require the user to login for rating.</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype comment and choose a rating start.</p>
----------------	--

*Table 8: Use case rating*

### 3.2.2.9. Manage Personal Information

#### 3.2.2.9.1. Use case “View Personal Information”

Use Case ID	UC_VPI
Use Case Name	View Information
Description	This use case allows the actor to view their account information
Actor	User, Pitch Owner, Admin
Pre-Condition(s)	The actor has logged into the system
Post-Condition(s)	The actor can view their personal information
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Personal” on the span [E1]</li> <li>3. The system go to the personal page</li> </ol>

	4. The system show the information of the user
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login

*Table 9: Use case view personal information*

#### 3.2.2.9.2. Use case “Edit Personal Information”

Use Case ID	UC_EPI
Use Case Name	Edit Information
Description	This use case allows the actor to edit their account personal information.
Actor	User, Pitchowner, Admin
Pre-Condition(s)	The actor has logged into the system and accessed the account management screen
Post-Condition(s)	The actor successful change and save their personal information
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Personal” on the span [E1]</li> <li>3. The system go to the personal page</li> </ol>

	4. The actor fills in the information want to change 5. The system verifies the registration information [E2] 6. The actor click “Update information” to save new changes.
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login. [E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information

Table 10: Use case edit personal information

### 3.2.2.10. Manage Booking Orders

#### 3.2.2.10.1 Use case “View booking orders”

Use Case ID	UC_VBO
Use Case Name	View booking orders
Description	Use case for allowing actor to view the information of booking orders
Actor	Administrator, pitches owner
Pre-Condition(s)	The actor has logged in to the system
Post-Condition(s)	

Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the management page</li> <li>2. The actor clicks on the "Select Management" bar and chooses "Booking orders Management"</li> <li>3. The system displays a list of orders and their details [E1]</li> <li>4. The actor selects the order and clicks the view icon</li> <li>5. The system displays the detailed information of that order</li> </ol>
Alternative Flow	
Exception Flow	[E1] If there are no orders in the order list, the system displays the message "No order is found"

*Table 11: Use case view booking order*

#### *3.2.2.10.2 Use case “Delete booking orders”*

Use Case ID	UC_DBO
Use Case Name	Delete booking orders
Description	Use case for allowing the actor to delete the booking orders
Actor	Administrator, pitches owner
Pre-Condition(s)	The actor has logged into the system by manager account

Post-Condition(s)	The order has been successfully deleted
Basic Flow	<ol style="list-style-type: none"> <li>1. Actor accesses the management page</li> <li>2. Actor clicks on the "Select Management" bar and chooses "Order Management"</li> <li>3. The system displays a list of orders and their details [E1]</li> <li>4. The actor selects the order and clicks the delete icon</li> <li>5. The system displays a warning about deleting the order</li> <li>6. The actor confirms delete action</li> <li>7. The system displays a notification of successful order deletion</li> </ol>
Alternative Flow	
Exception Flow	[E1] If there are no orders in the order list, the system displays the message "No order is found"

*Table 12: Use case delete booking order*

*3.2.2.11. Manage Pitch*

*3.2.2.11.1. Use case “Update pitch”*

Use Case ID	UC_UP
Use Case Name	Update pitch
Description	Use case for allowing the actor to update the pitch
Actor	Administrator, pitch owner
Pre-Condition(s)	The actor has logged in to the system
Post-Condition(s)	The pitch's information has been successfully updated.
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage pitches”</li> <li>5. The actor click to “Manage pitches” in the span</li> <li>6. The actor click to icon edit to changes information</li> <li>7. The actor input the information</li> <li>8. The system verifies the registration information [E2]</li> <li>9. The actor click “Update new pitch” button to save changes</li> </ol>

Alternative Flow	
Exception Flow	<p>[E1] If the user does not login it will require the user to login</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information</p>

Table 13: Use case update pitch

#### 3.2.2.11.2. Use case “Add new pitch”

Use Case ID	UC_AP
Use Case Name	Add pitch
Description	Use case for allowing the actor to add new the pitch information on the website
Actor	Administrator, pitches owner
Pre-Condition(s)	The actor has logged in to the system
Post-Condition(s)	The pitch information has been successfully added
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> </ol>

	4. The actor clicks to “Manage pitches” 5. The actor click to “Create pitch” to changes information 6. The actor input the information 7. The system verifies the registration information. [E2] 8. The actor click “Create new pitch” button to create new pitch
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login. [E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information

*Table 14: Use case add new pitch*

### 3.2.2.11.3. Use case “Delete the pitch”

Use Case ID	UC_DP
Use Case Name	Delete pitches
Description	Use case for allowing the actor to delete the pitches on the website
Actor	Administrator, pitches owner
Pre-Condition(s)	The actor has logged in to the system

Post-Condition(s)	The pitch has been successfully deleted from the website
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage pitches”</li> <li>5. The actor click to “Manage pitches” in the span</li> <li>6. The actor click to icon delete to delete pitches</li> <li>7. The system show a warning to confirm delete</li> <li>8. The system delete the pitch user has choose</li> </ol>
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login

*Table 15: Use case delete pitch*

#### *3.2.2.11.4. Use case “View pitch detail”*

Use Case ID	UC_VPD
Use Case Name	View pitches detail
Description	Use case for allowing the actor to view the pitch information on the website

Actor	Administrator, pitches owner
Pre-Condition(s)	The actor has logged in to the system
Post-Condition(s)	.
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage pitches”</li> <li>4. The system show the information of the pitches</li> </ol>
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login

*Table 16: Use case view pitch detail*

### 3.2.2.12. Manage Users

#### 3.2.2.12.1. Use case “Update Users”

Use Case ID	UC_UU
Use Case Name	Update user
Description	This use case allows the actor to update the user's information to the system
Actor	Administrator
Pre-Condition(s)	The actor has logged in to the system.
Post-Condition(s)	
Basic Flow	<ol style="list-style-type: none"><li>1. The actor click “Profile” on the header</li><li>2. The actor click to the “Admin workspace” on the span [E1]</li><li>3. The system go to the admin page</li><li>4. The actor clicks to “Manage users”</li><li>5. The actor click to icon edit to changes information</li><li>6. The actor input the information</li><li>7. The system verifies the registration information [E2]</li><li>9. The actor click “Update” button to save changes</li></ol>

Alternative Flow	
Exception Flow	<p>[E1] If the user does not login it will require the user to login</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information</p>

Table 17: Use case update user

### 3.2.2.12.2. Use case “Delete Users”

Use Case ID	UC_DU
Use Case Name	Delete user
Description	This use case allows the Actor to delete users from the system
Actor	Administrator
Pre-Condition(s)	The Actor has logged in to the system.
Post-Condition(s)	
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage users”</li> </ol>

	<p>5. The actor click to icon delete to delete users</p> <p>6. The system show a warning to confirm delete</p> <p>7. The system delete the user has choose</p>
Alternative Flow	
Exception Flow	<p>[E1] If the user does not login it will require the user to login</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information</p>

Table 18: Use case delete user

#### 3.2.2.12.3. Use case “View user detail”

Use Case ID	UC_VUD
Use Case Name	View user detail
Description	This use case allows the Actor to view the user's information
Actor	Administrator
Pre-Condition(s)	The Actor has logged in to the system
Post-Condition(s)	

Basic Flow	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage users”</li> <li>4. The system show the information of the users</li> </ol>
Alternative Flow	
Exception Flow	[E1] If the user does not login it will require the user to login.

*Table 19: Use case view user detail*

### 3.2.2.13. Manage Category

#### 3.2.2.13.1. Use case “Update category”

Use Case ID	UC_UP
Use Case Name	Update category
Description	Use case for allowing the actor to update the category
Actor	Administrator
Pre-Condition(s)	The actor has logged in to the system

Post-Condition(s)	The category information has been successfully updated
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the admin page</li> <li>2. The actor chooses category management</li> <li>3. The system displays the list of available categories on the website [E1]</li> <li>4. Actor selects a category and clicks the edit icon</li> <li>5. The system displays detailed information about the category</li> <li>6. Actor enters the updated information for the category</li> <li>7. Actor clicks the "Update Category" button to confirm the changes</li> <li>8. The system verifies the updated information [E2]</li> <li>9. The system saves the changes</li> </ol>
Alternative Flow	
Exception Flow	<p>[E1] If there are no available category on the website, the system displays the message “Show category 0 – 0 of 0”</p> <p>[E2]. If Actor does not enter complete or valid information, the system displays an error message and requests Actor to correct the information</p>

Table 20: Use case update category

*3.2.2.13.2. Use case “Add category”*

Use Case ID	UC_AP
Use Case Name	Add category
Description	Use case for allowing the actor to add category (information about football) on the website
Actor	Administrator
Pre-Condition(s)	The actor has logged in to the system
Post-Condition(s)	The category information has been successfully added
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the admin page</li> <li>2. The actor chooses category create</li> <li>3. The system displays the form for actor to fill up</li> <li>4. The actor enters the category information</li> <li>5. The actor clicks the "Create new category" button to confirm adding</li> <li>8. The system verifies the added category information. [E1]</li> <li>9. The system saves the changes</li> </ol>

Alternative Flow	
Exception Flow	[E1]. If Actor does not enter complete or valid information, the system displays an error message and requests Actor to correct the information.

*Table 21: Use case add category*

#### *3.2.2.13.3. Use case “Delete category”*

Use Case ID	UC_DP
Use Case Name	Delete category
Description	Use case for allowing the actor to delete the category on the website
Actor	Administrator
Pre-Condition(s)	The actor has logged in to the system.
Post-Condition(s)	The category has been successfully deleted from the website.
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor accesses the admin page</li> <li>2. The actor chooses category management.</li> <li>3. The system displays the list of available categories on the website.</li> </ol> <p>[E1]</p>

	4. Actor selects a category and clicks the delete category icon. 5. The system displays a popup message asking the actor to confirm deletion 6. The actor confirms the delete action 7. The system displays a notification of successful category deletion
Alternative Flow	
Exception Flow	[E1] If there are no available category on the website, the system displays the message "No category is found"

Table 22: Use case delete category

### 3.2.2.14. Manage Brand

#### 3.2.2.14.1. Use case “Create Brand”

Use Case ID	UC_CB
Use Case Name	Create Brand
Description	This use case allows the actor to create a brand
Actor	Administrator
Pre-Condition(s)	The actor has logged in to the system.

Post-Condition(s)	
Basic Flow:	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage Brand”</li> <li>5. The actor clicks to “Create Brand”</li> <li>6. The actor input the information</li> <li>7. The system verifies the registration information [E2]</li> <li>9. The actor click “Create new Brand” button to create</li> </ol>
Alternative Flow	
Exception Flow:	<p>[E1] If the user does not login it will require the user to login</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information</p>

Table 23: Use case create brand

*3.2.2.14.2. Use case “Delete Brand”*

Use Case ID	UC_DB
Use Case Name	Delete Brand
Description	This use case allows the Actor to delete brand from the system
Actor	Administrator
Pre-Condition(s)	The Actor has logged in to the system
Post-Condition(s)	
Basic Flow:	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage Brand”</li> <li>5. The actor click to icon delete to delete brand</li> <li>6. The system show a warning to confirm delete</li> <li>7. The system delete the user has choose</li> </ol>
Alternative Flow	

Exception Flow:	<p>[E1] If the user does not login it will require the user to login</p> <p>[E2] If the input is not invalid or the rating starts is not selected, show warning message, request user to retype information</p>
-----------------	---

*Table 24: Use Case Delete brand*

#### *3.2.2.14.3. Use case “Update Brand”*

Use Case ID	UC_UB
Use Case Name	Update Brand
Description	This use case allows the Actor to update brand's information
Actor	Administrator
Pre-Condition(s)	The Actor has logged in to the system
Post-Condition(s)	
Basic Flow:	<ol style="list-style-type: none"> <li>1. The actor click “Profile” on the header</li> <li>2. The actor click to the “Admin workspace” on the span [E1]</li> <li>3. The system go to the admin page</li> <li>4. The actor clicks to “Manage Brand”</li> <li>5. The actor click to icon edit to update brand</li> </ol>

	<ol style="list-style-type: none"><li>6. The system shows a form to enter updated information for the brand</li><li>7. Actor clicks the "Update Brand" button to confirm the changes</li><li>8. The system verifies the updated information [E2]</li><li>9. The system saves the changes</li></ol>
Alternative Flow	
Exception Flow:	[E1] If the user does not log in it will require the user to log in  [E2] If Actor does not enter complete or valid information, the system displays an error message and requests Actor to correct the information

*Table 25: Use Case update brand*

*3.2.2.15. Use case “Booking”*

Use Case ID	UC_B
Use Case Name	Booking
Description	This use case allows the actor to booking a pitch with a specific time
Actor	User
Pre-Condition(s)	The actor has logged into the system
Post-Condition(s)	The actor booking pitch success
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor select a pitch in home page or in pitches page</li> <li>2. The system displays the pitch detail page</li> <li>3. The actor select shift and date want to book</li> <li>4. The actor click “Booking” [E1]</li> <li>5. The pitch will be adding to cart</li> <li>6. The actor click icon “Cart” to view their cart</li> <li>7. The actor click “Check out Detail” to view order detail page [A1]</li> <li>8. The actor click “Check out” to open Paypal check out page [A2]</li> <li>9. The actor click “Paypal” to login with Paypal account</li> <li>10. The actor fill up their information to login [E2]</li> </ol>

	<p>11. The actor click “Complete Purchase” to success booking [E3]</p> <p>12. System save the information of actor have booked and pitch that actor book</p>
Alternative Flow	<p>[A1] The actor can delete the pitch in the cart by click delete icon</p> <p>[A2]: The actor can click “booking other” to continue booking other pitch</p>
Exception Flow	<p>[E1]: If the pitch was booked at the same time and shift actor select, system will show error notification</p> <p>[E2]: If the information was incorrect the system will show message require actor to input again</p> <p>[E3]: If the money in actor Paypal account was not enough system will show error message</p>

*Table 26: Use case booking*

*3.2.2.16. Use Case “Searching Pitches”*

Use Case ID	UC_SP
Use Case Name	Search pitches
Description	This use case allows the actor to find pitches based on their name
Actor	Guest, User, Pitches Owner
Pre-Condition(s)	
Post-Condition(s)	The system displays a list of pitches match to the name has entered
Basic Flow	<ol style="list-style-type: none"> <li>1. The actor clicks Pitches section on the navigation bar.</li> <li>2. The system displays list pitches and a search bar</li> <li>3. The actor enter the name of the pitches to search bar.</li> <li>4. The system displays the pitches which name contain character in search bar [E1]</li> </ol>
Alternative Flow	
Exception Flow	[E1] If there are no pitches that match the search criteria, the system displays the message "No results found".

*Table 27: Use case searching pitches*

# CHAPTER 4: SYSTEM DESIGN

## 4.1. CLASS DIAGRAM

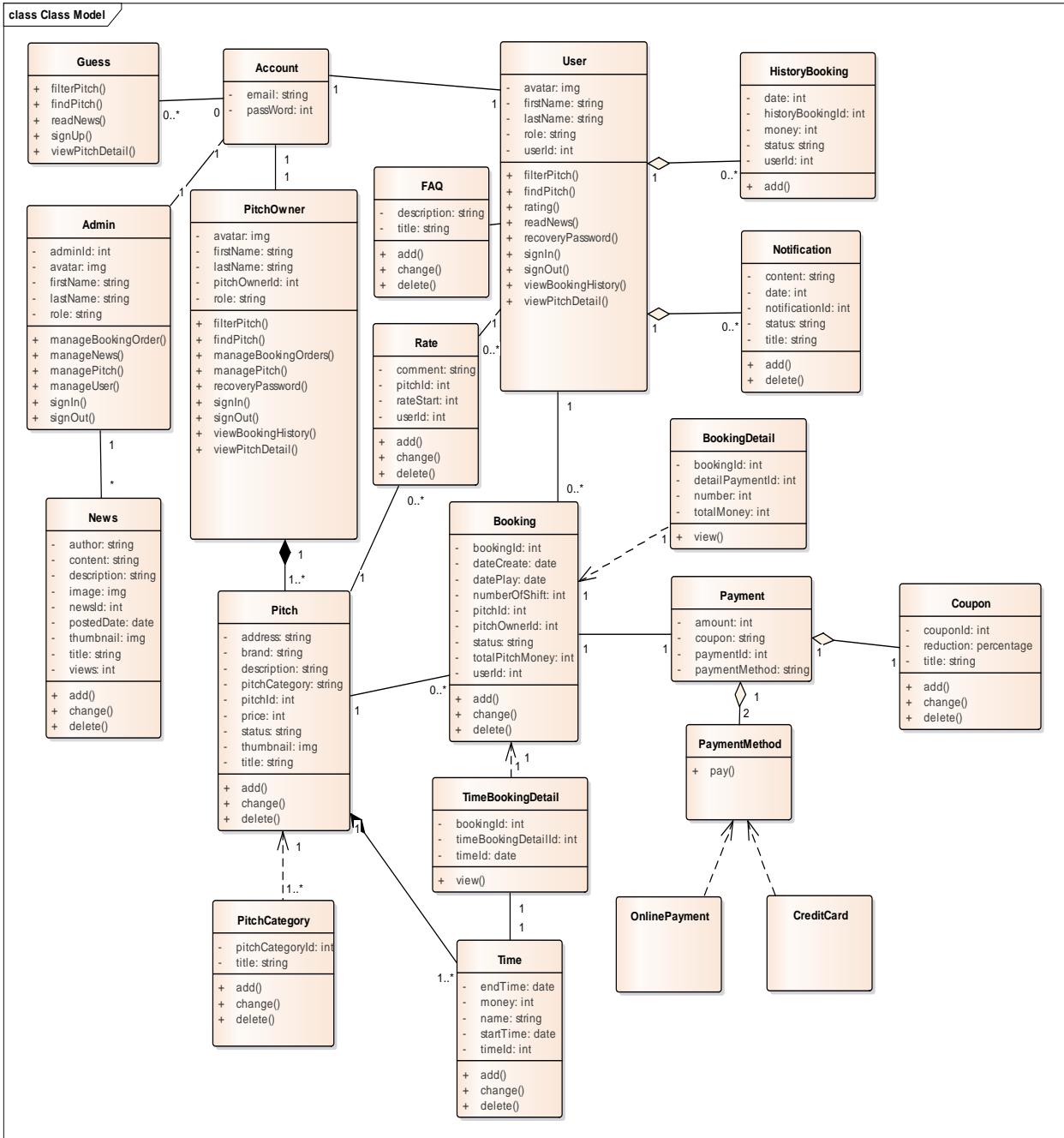


Figure 7: Class diagram

## 4.2. SEQUENCE DIAGRAM

### 4.2.1. Sign In

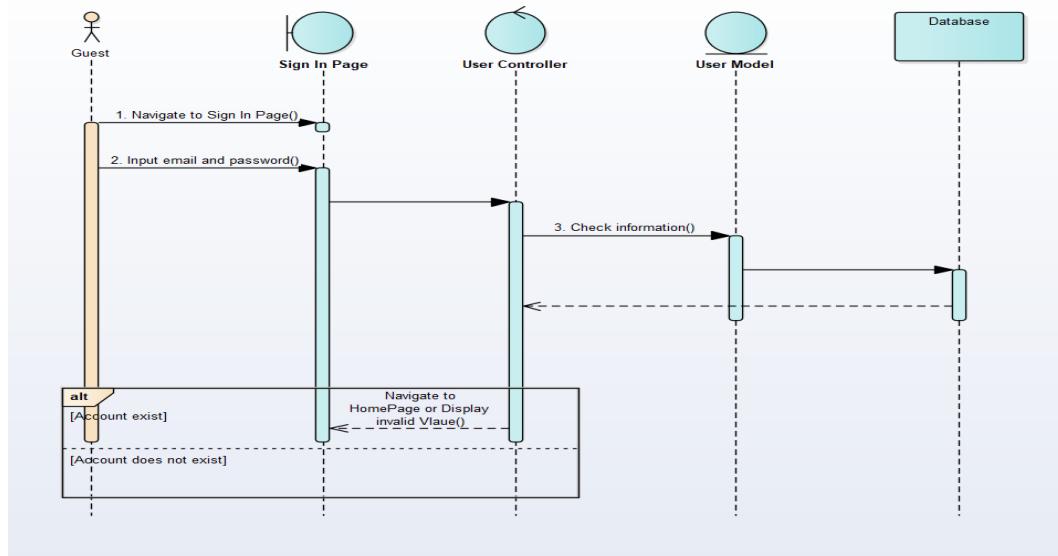


Figure 8: Sign in sequence diagram

### 4.2.2. Sign Out

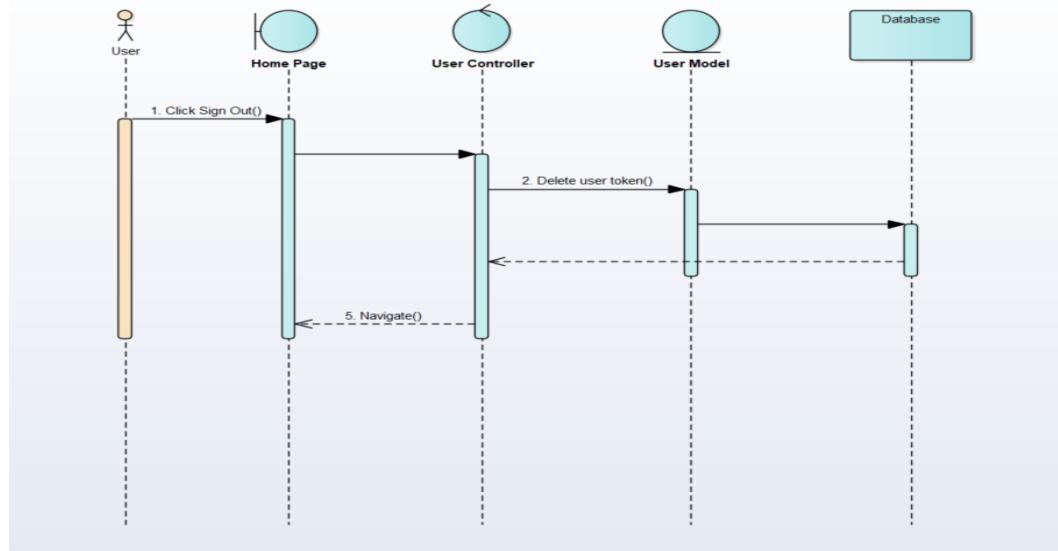


Figure 9: Sign Out sequence diagram

### 4.2.3. Sign Up

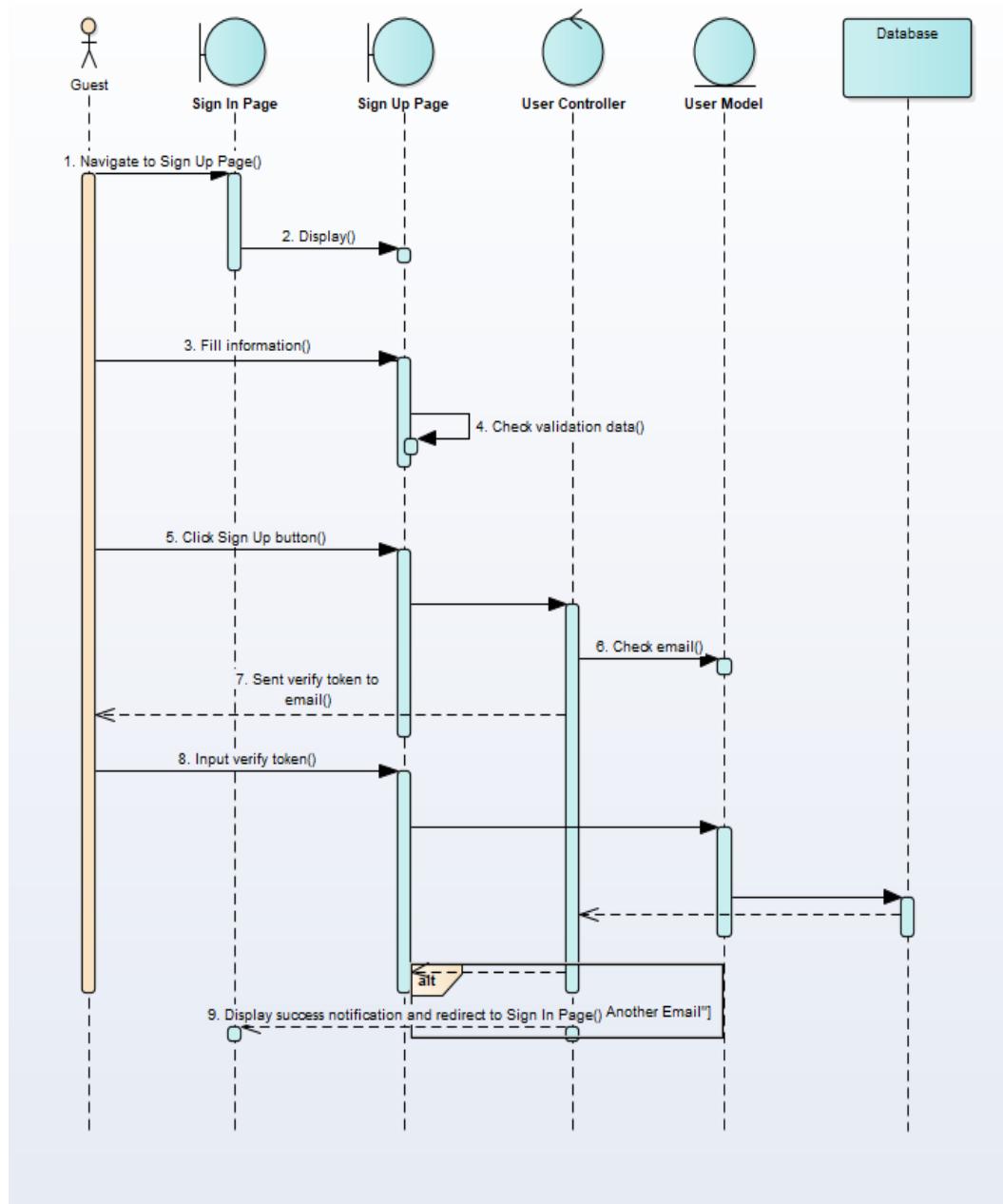


Figure 10: Sign Up sequence diagram

#### 4.2.4. Recover Password

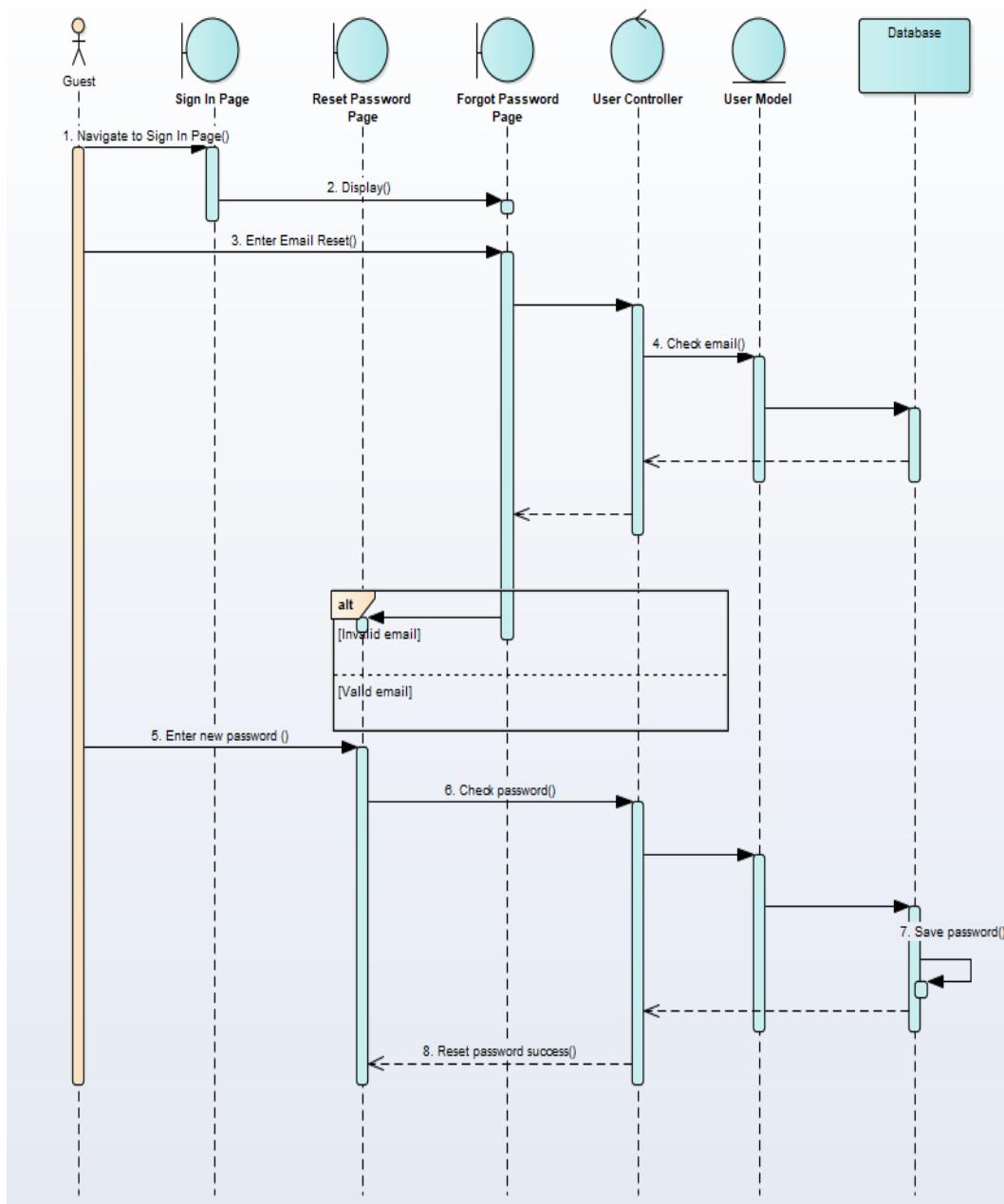


Figure 11: Recover password sequence diagram

#### 4.2.5. Filter Pitches

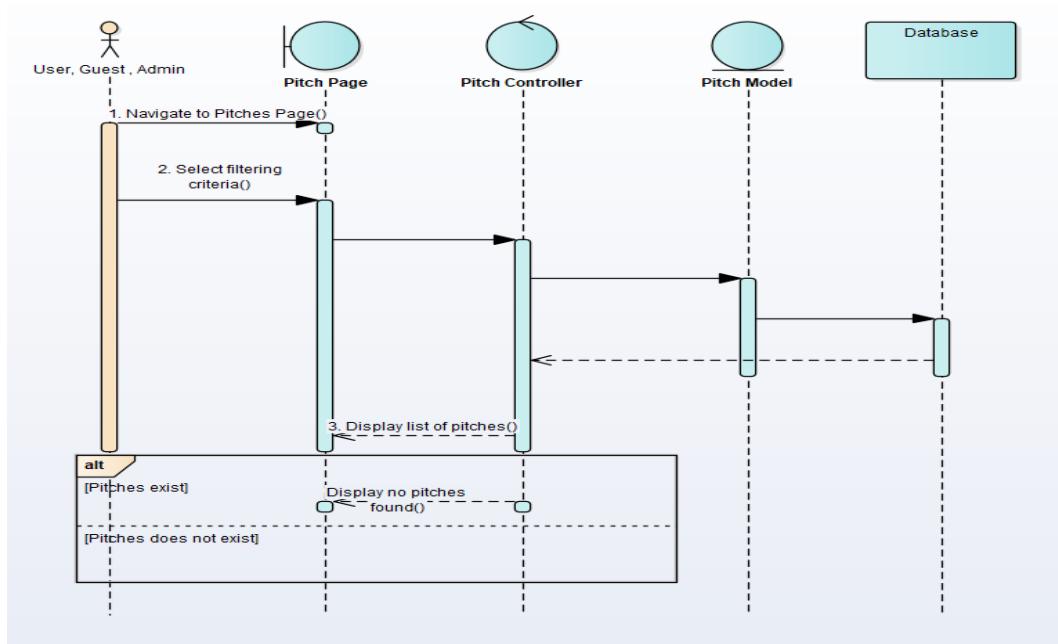


Figure 12: Filter pitches sequence diagram

#### 4.2.6. View Pitch Detail

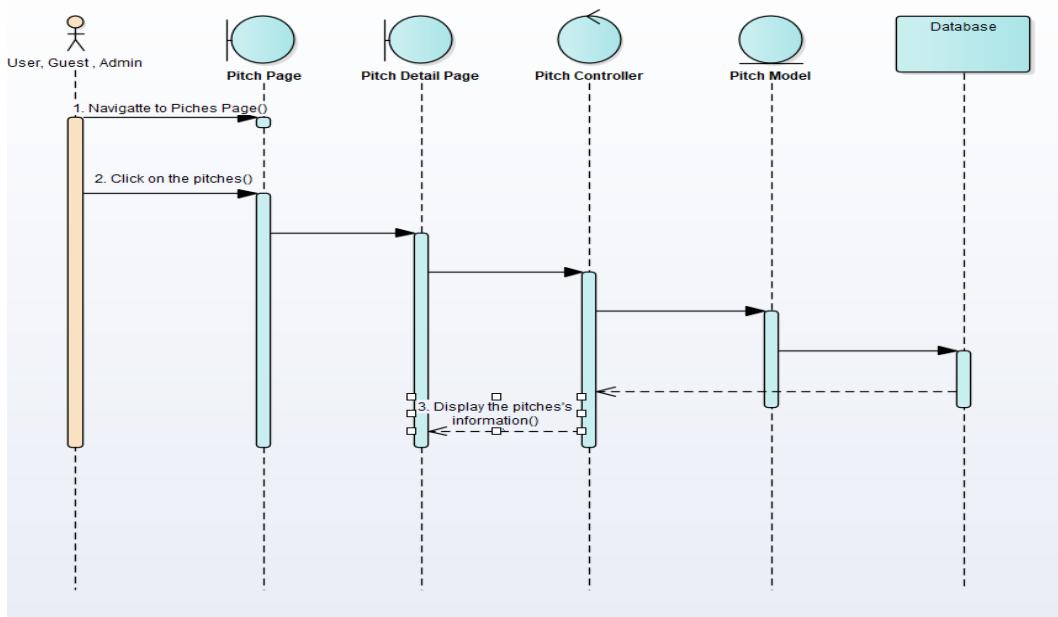


Figure 13: View pitch detail sequence diagram

#### 4.2.7. View Booking History

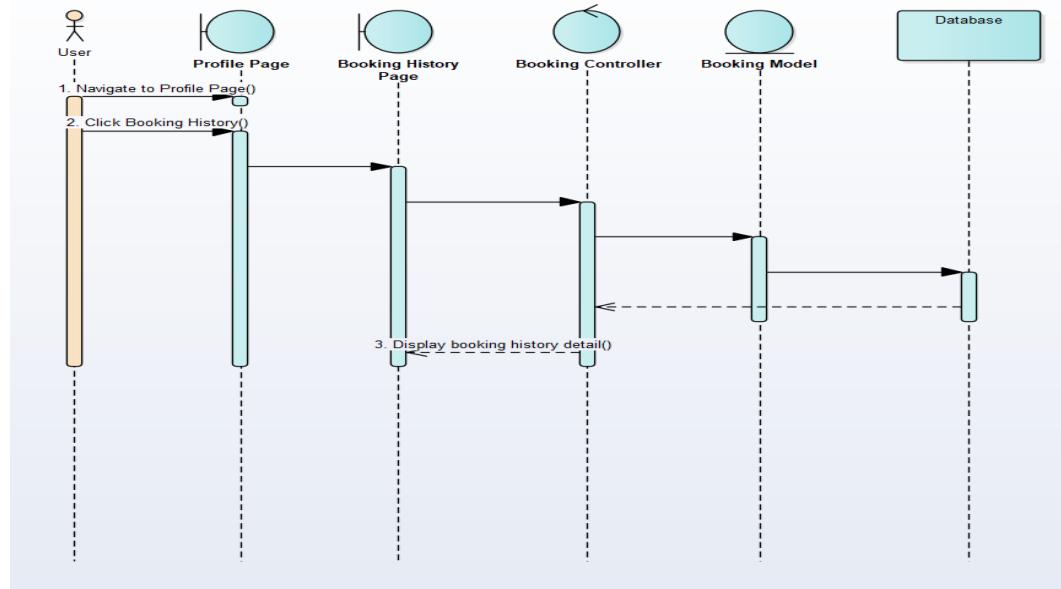


Figure 14: View booking history sequence diagram

#### 4.2.8. Rating

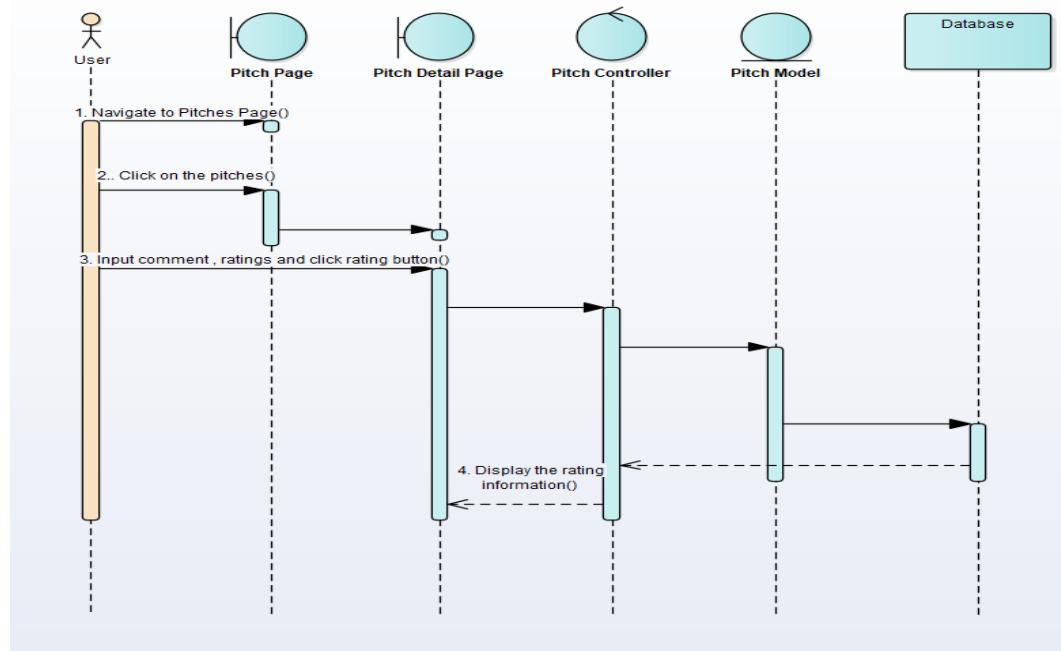


Figure 15: Rating sequence diagram

#### 4.2.9. Manage Personal Information

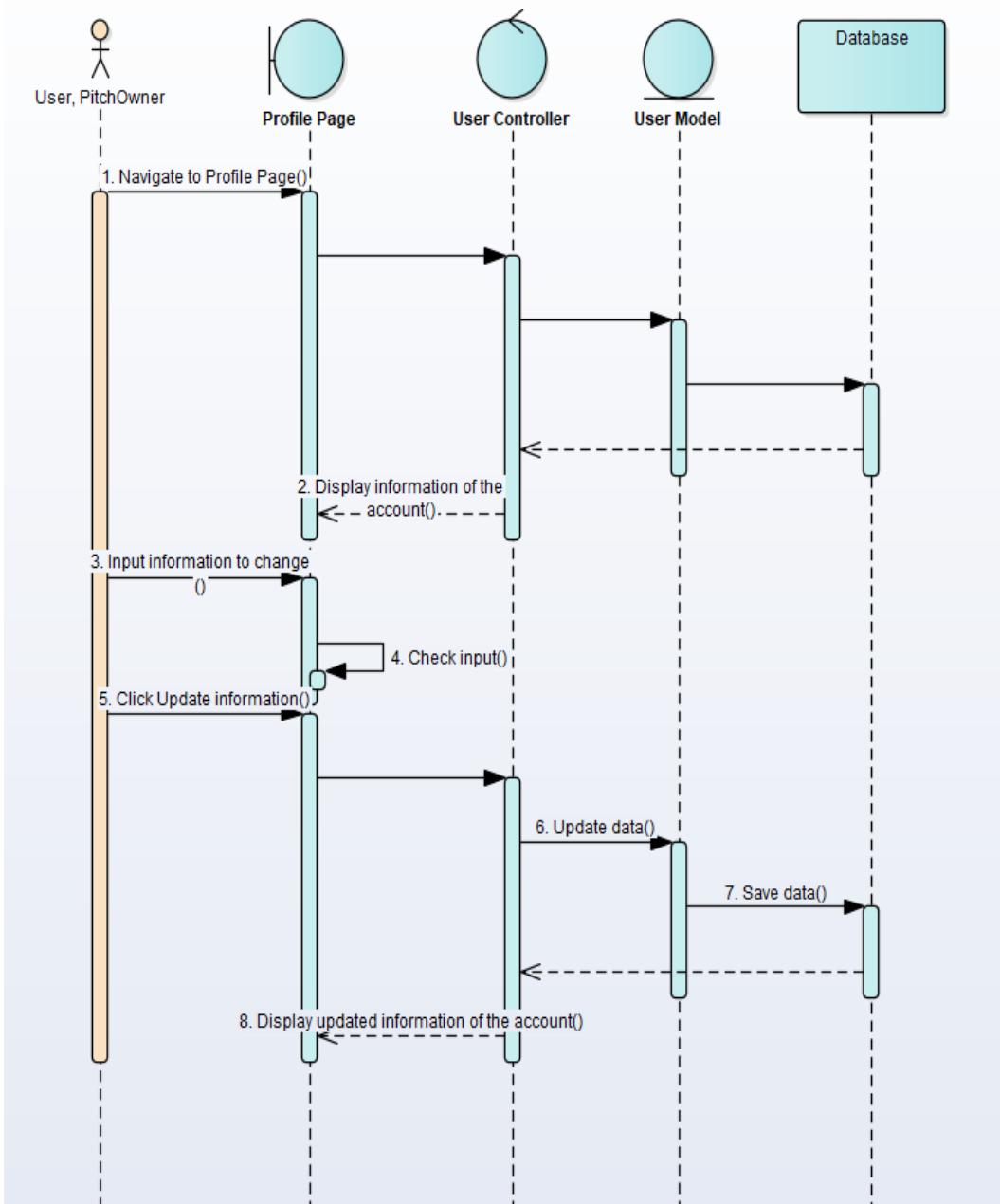


Figure 16: Manage personal information sequence diagram

#### 4.2.10. Manage Booking Orders

##### 4.2.10.1. View Booking Orders

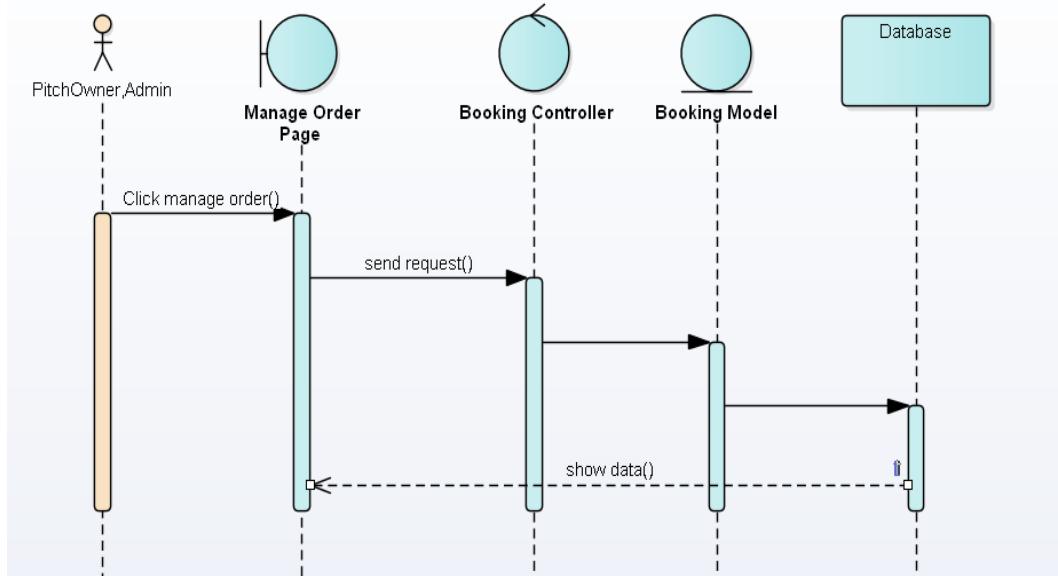


Figure 17: View booking order sequence diagram

##### 4.2.11.2. Delete Booking Order

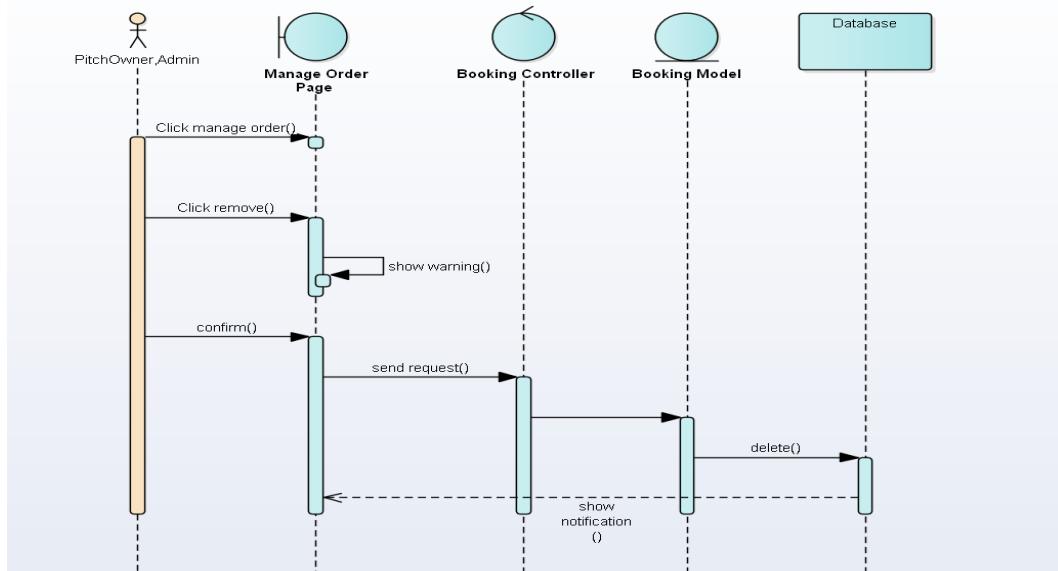


Figure 18: Delete booking order sequence diagram

### 4.2.11. Manage Pitches

#### 4.2.11.1. View Pitches

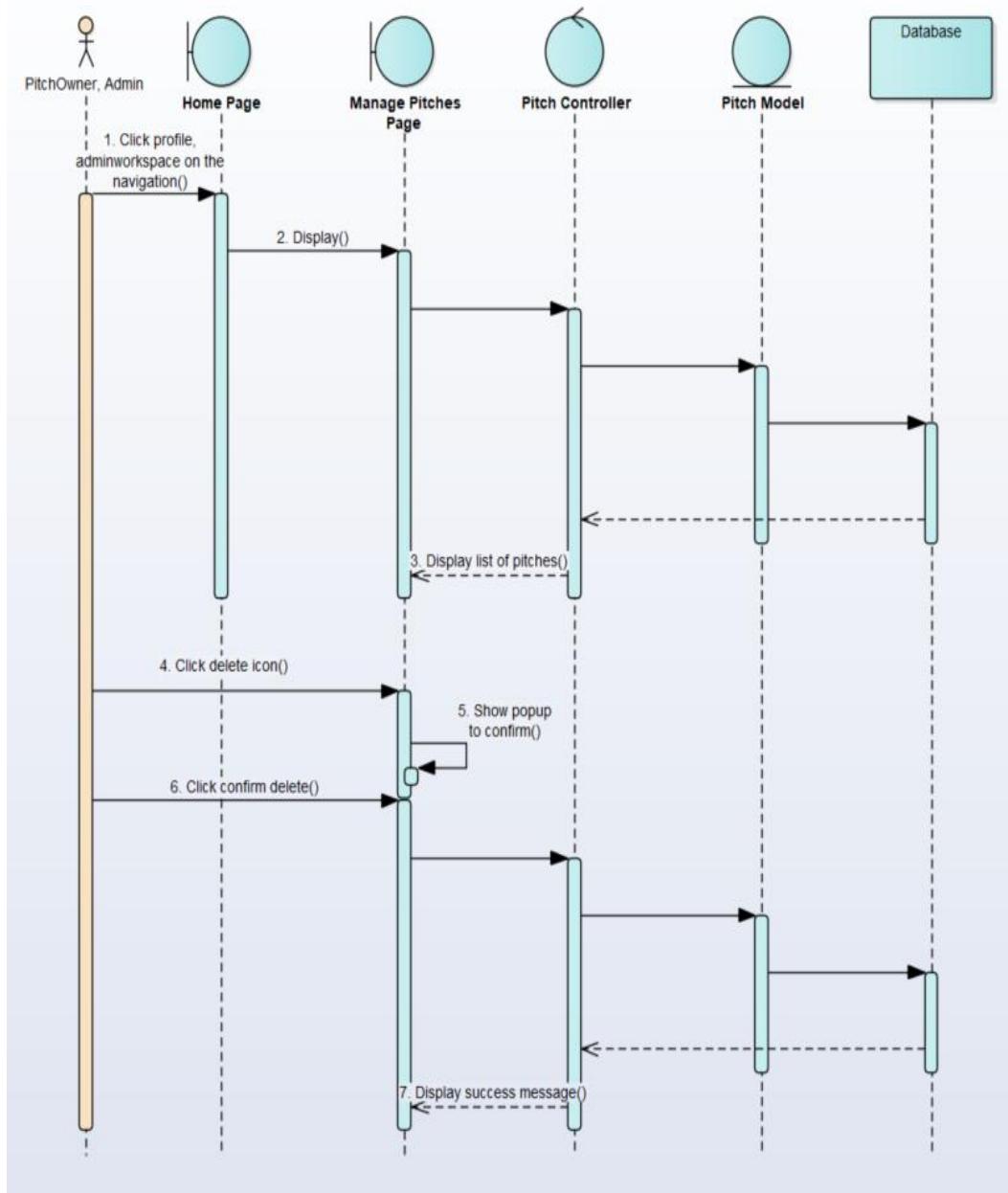


Figure 19: View pitches sequence diagram

*4.2.11.2. Create Pitch*

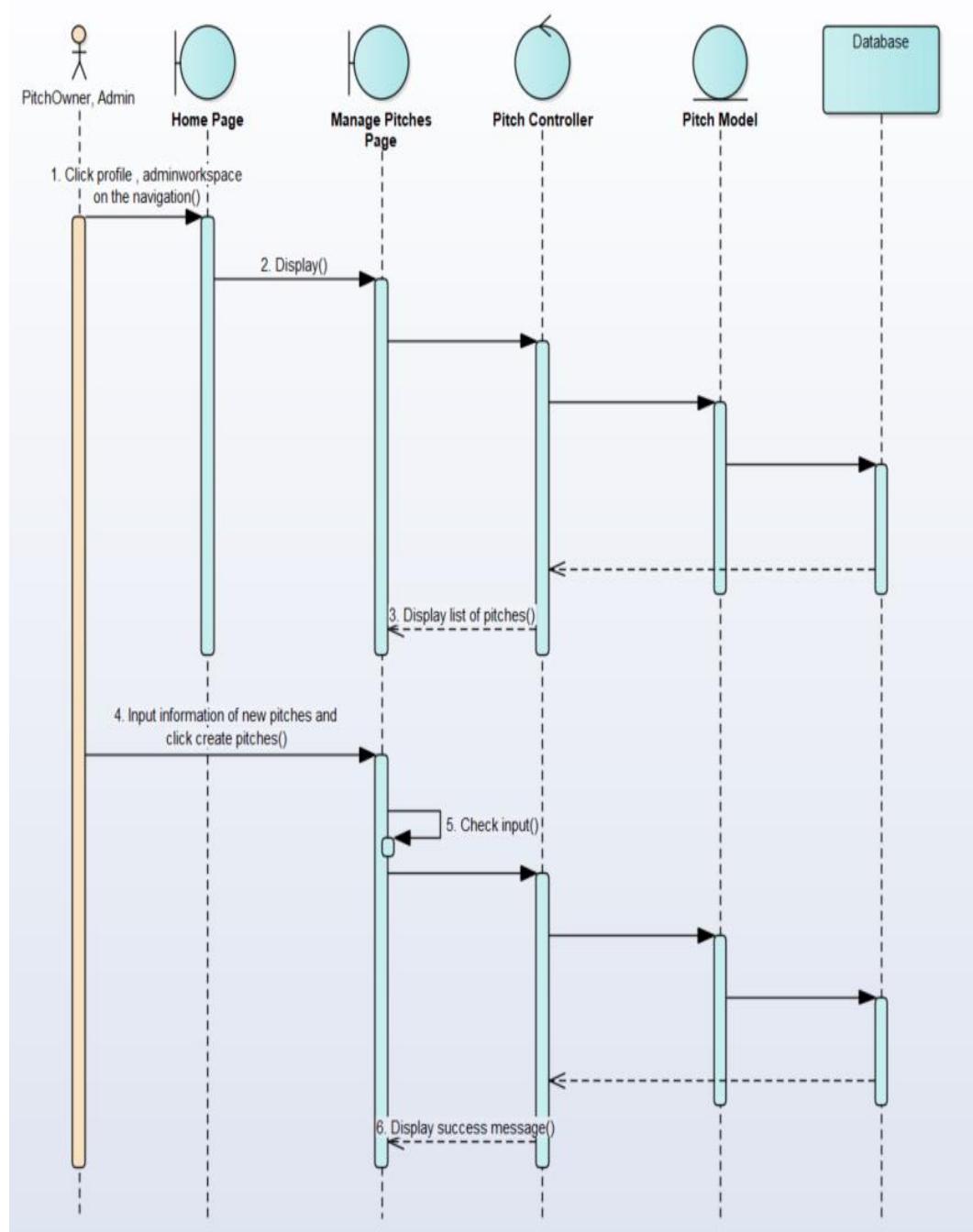
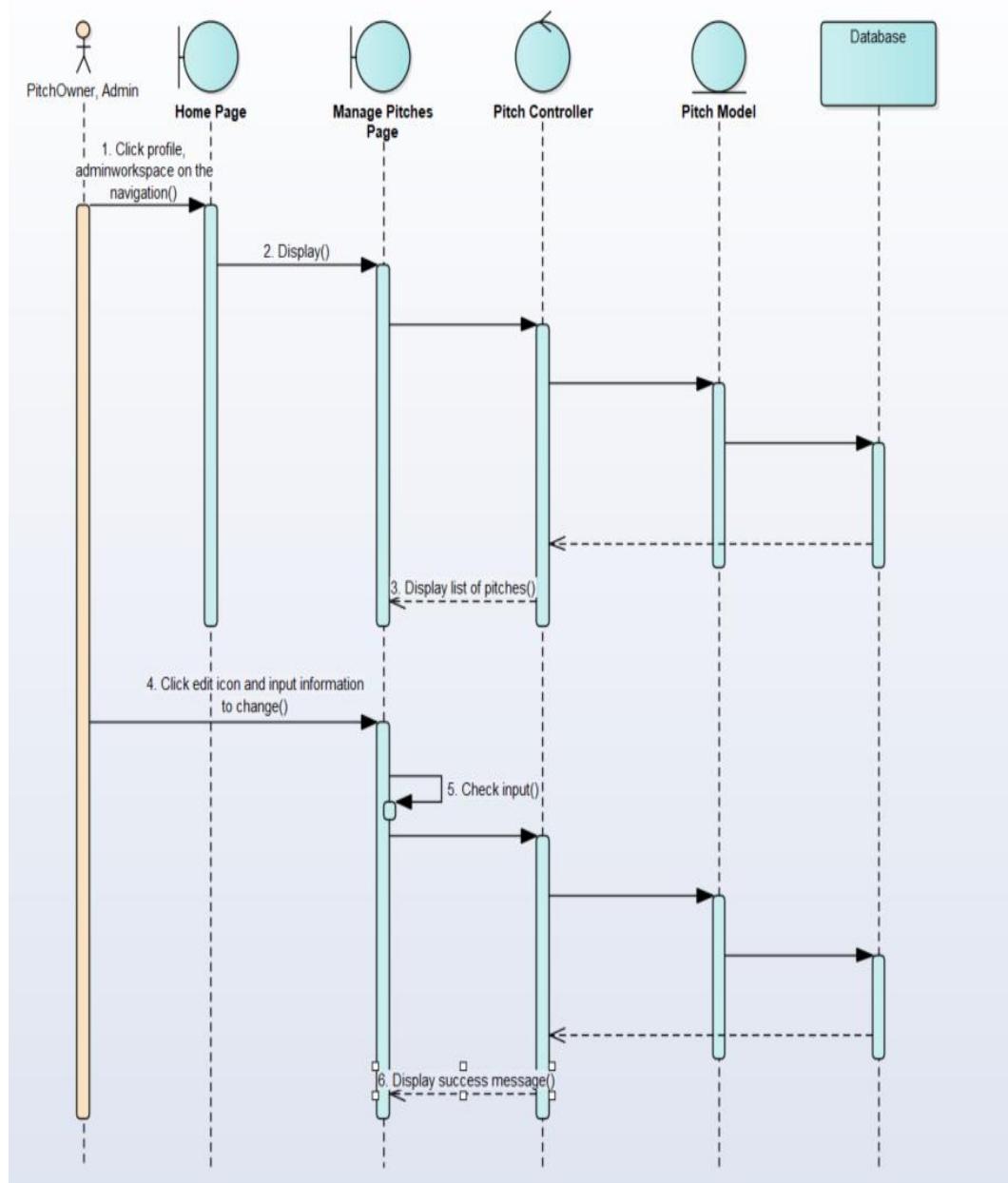


Figure 20: Create pitch sequence diagram

*4.2.12.3. Edit Pitch*



*Figure 21: Edit pitch sequence diagram*

#### 4.2.12.4. Delete Pitch

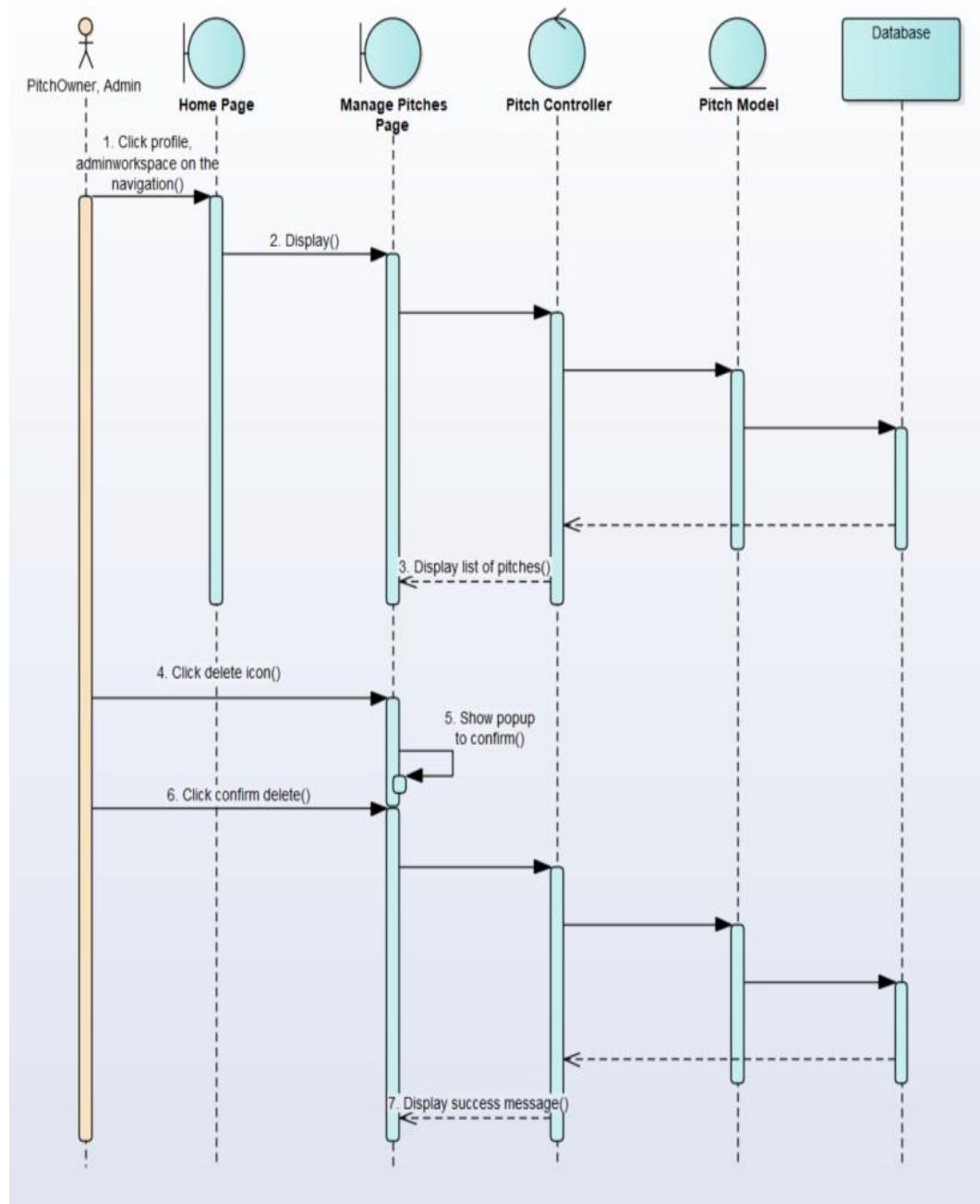


Figure 22: Delete pitch sequence diagram

### 4.2.12. Manage Users

#### 4.2.12.1. Edit User

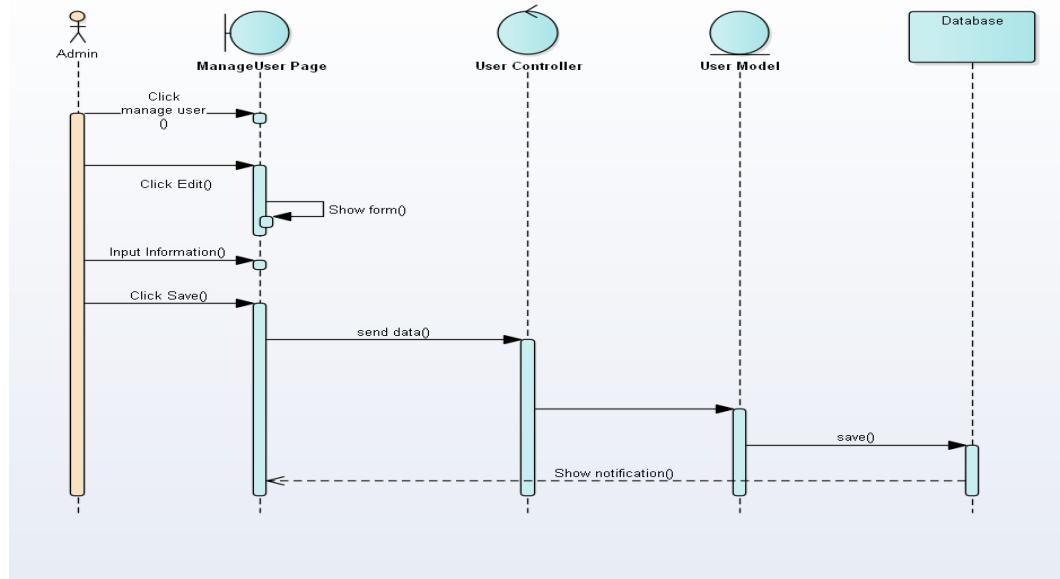


Figure 23: Edit user sequence diagram

#### 4.2.12.2. Delete User

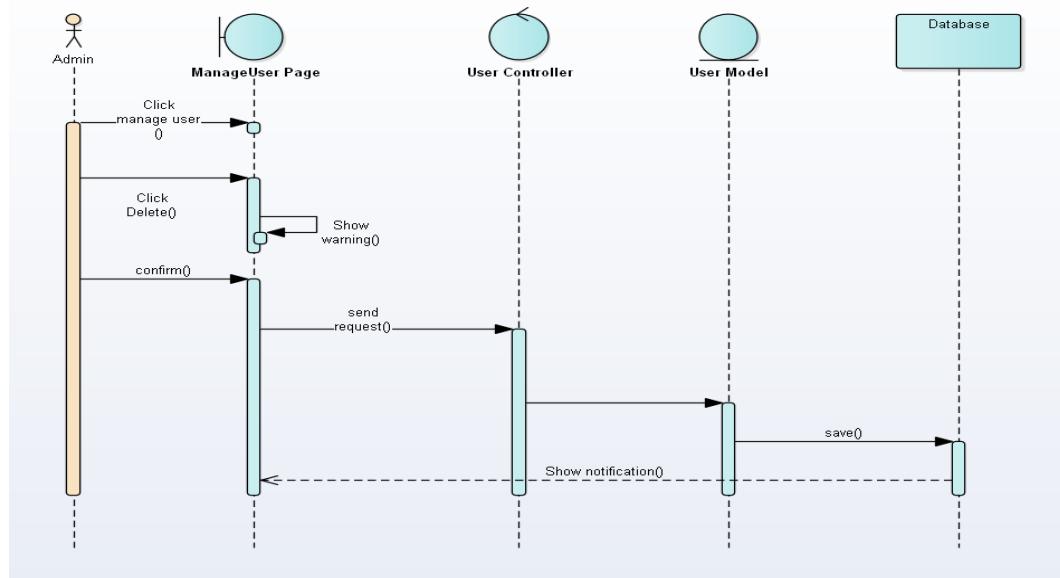


Figure 24: Delete user sequence diagram

### 4.2.13. Manage Category

#### 4.2.13.1. Create Category

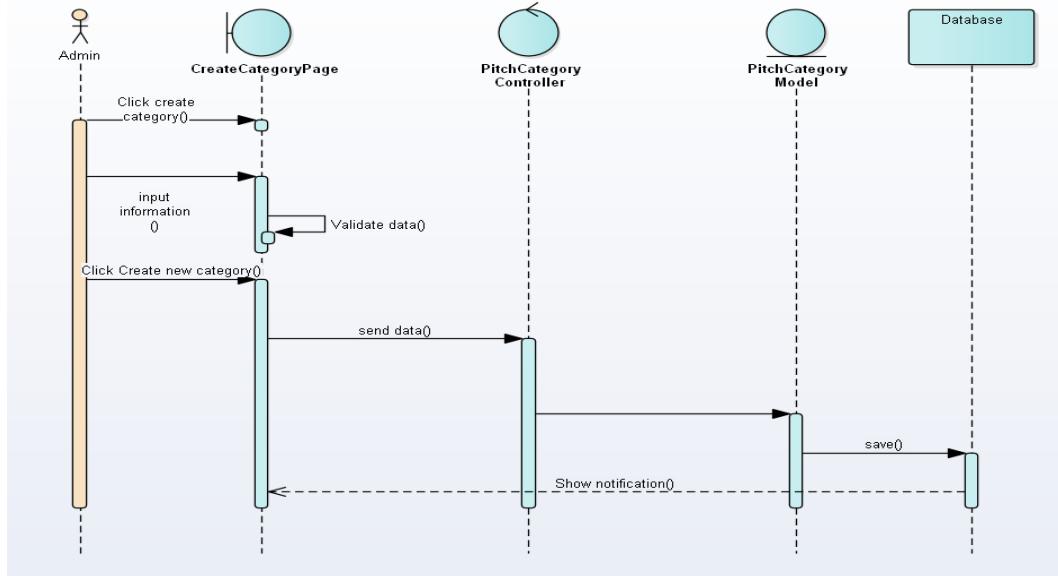


Figure 25: Create category sequence diagram

#### 4.2.13.1. Edit Category

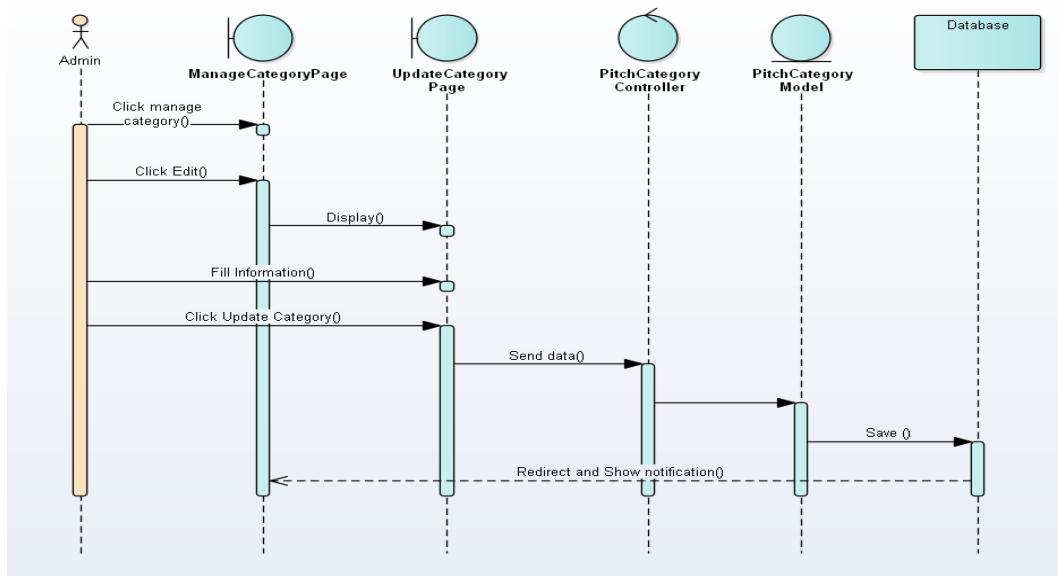


Figure 26: Edit category sequence diagram

4.2.13.2. Delete Category

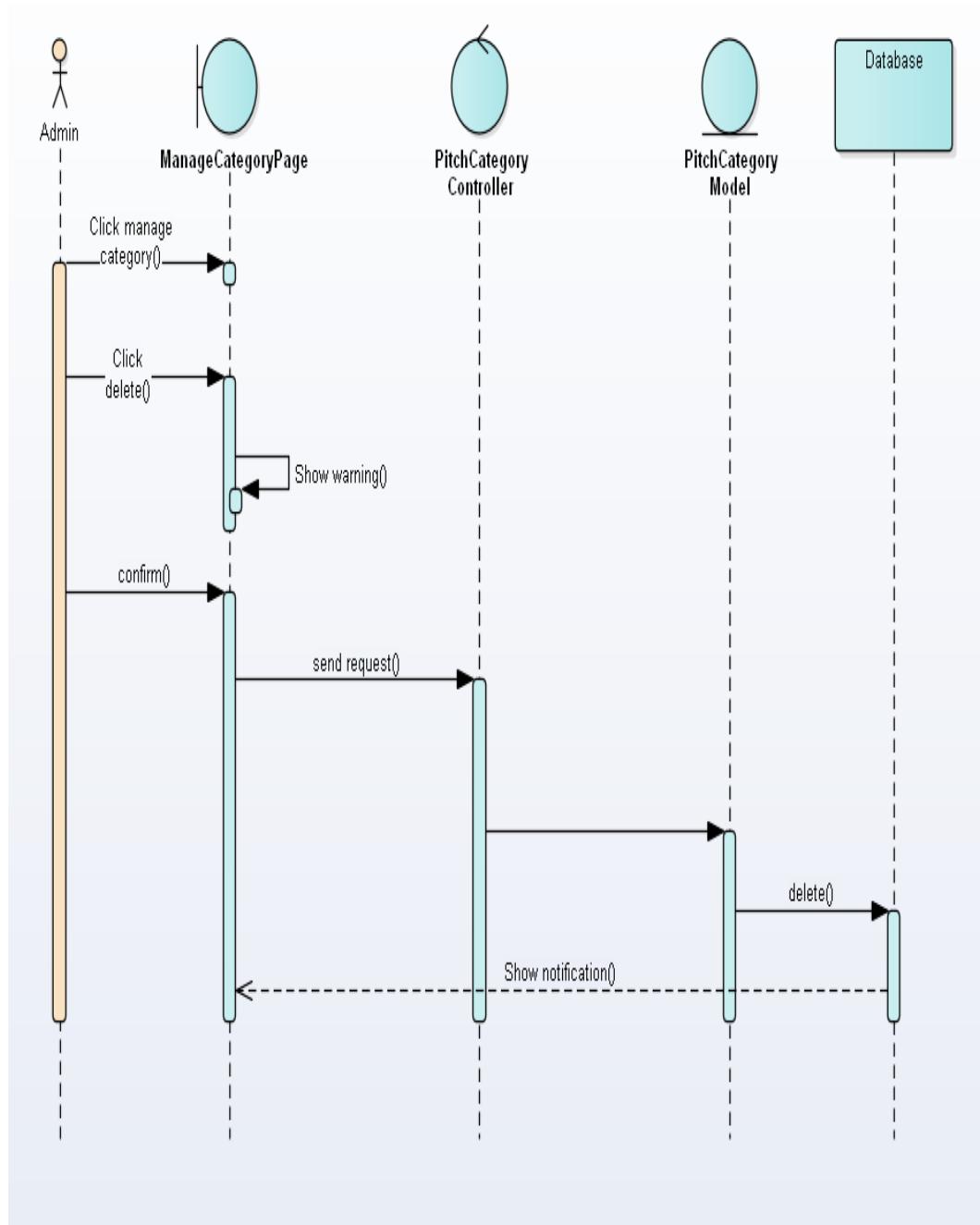


Figure 27: Delete category sequence diagram

#### 4.2.14. Booking

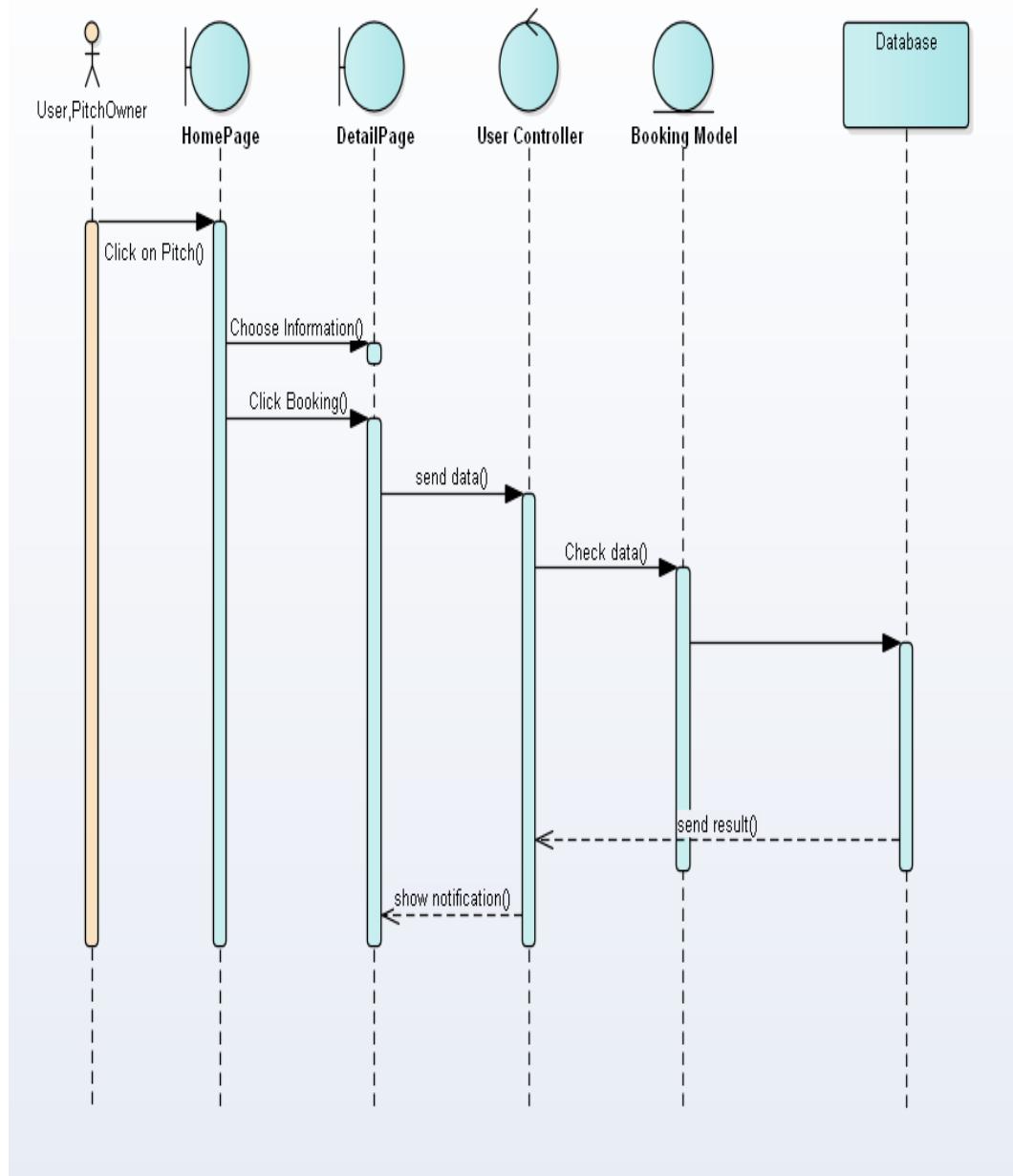


Figure 28: Booking sequence diagram

#### 4.2.15. Brand

##### 4.2.15.1. Create Brand

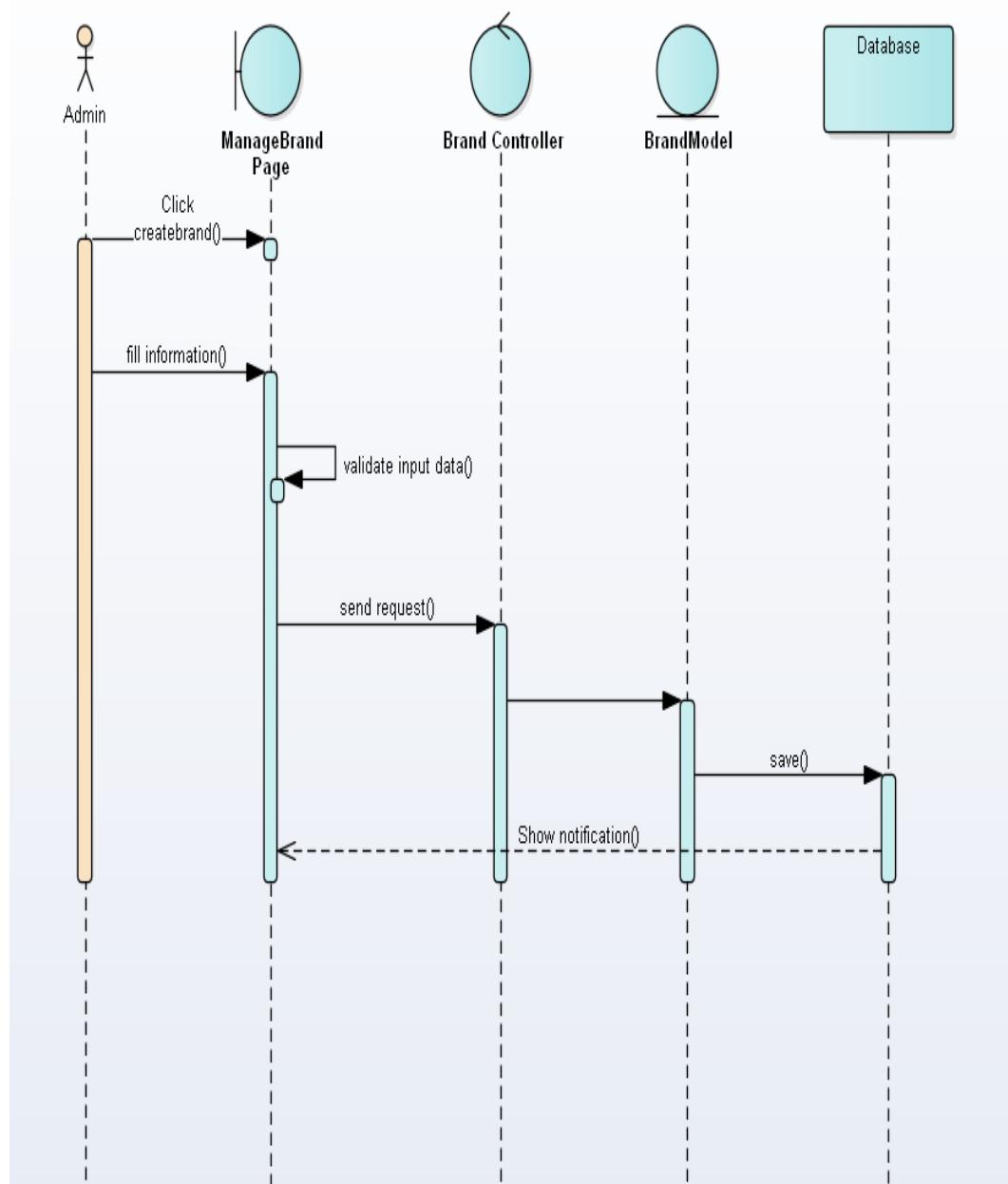


Figure 29: Create brand sequence diagram

### 4.2.15.2. Edit Brand

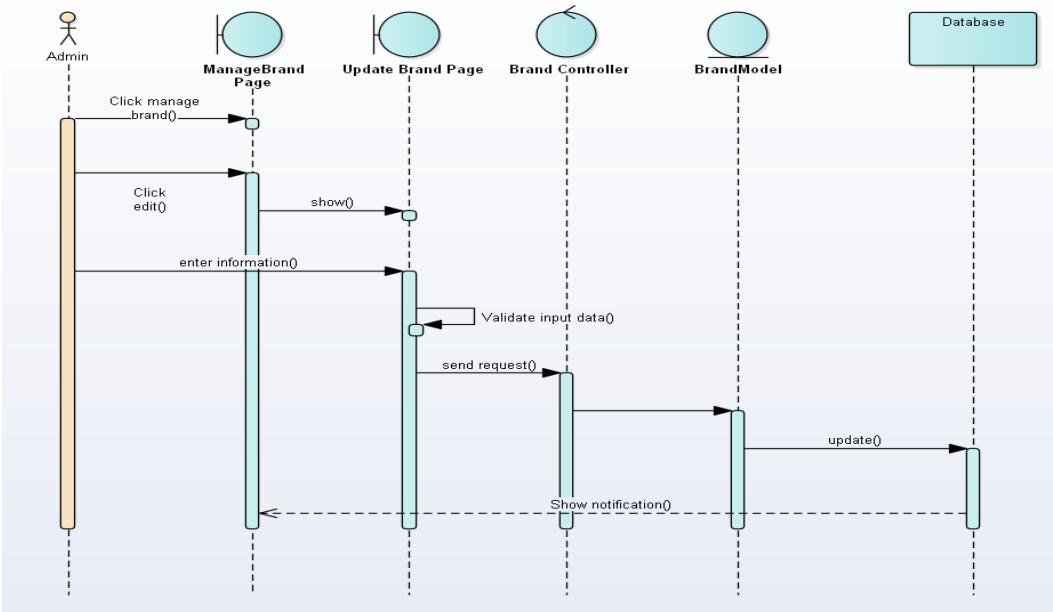


Figure 30: Edit brand sequence diagram

### 4.2.15.3. Delete Brand

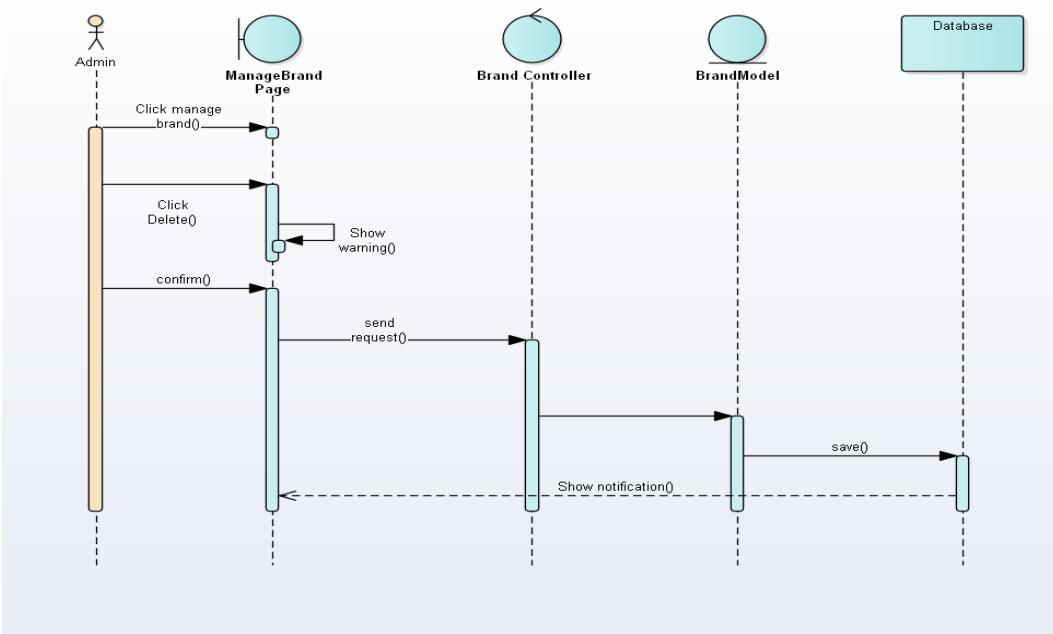


Figure 31: Delete brand sequence diagram

### 4.2.16. Search Pitches

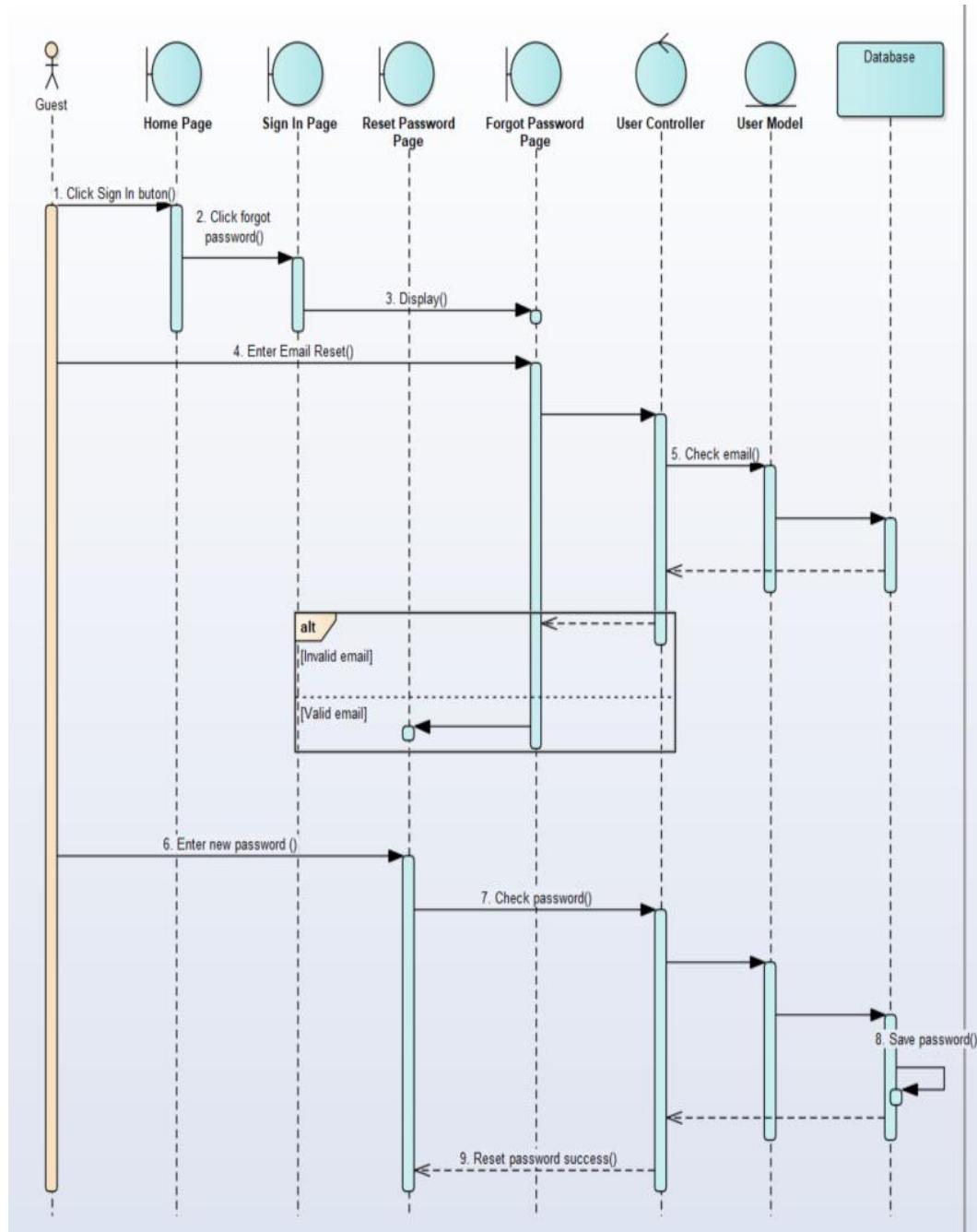


Figure 32: Search pitches sequence diagram

### 4.3. USER INTERFACE DESIGN

#### 4.3.1. Home Page

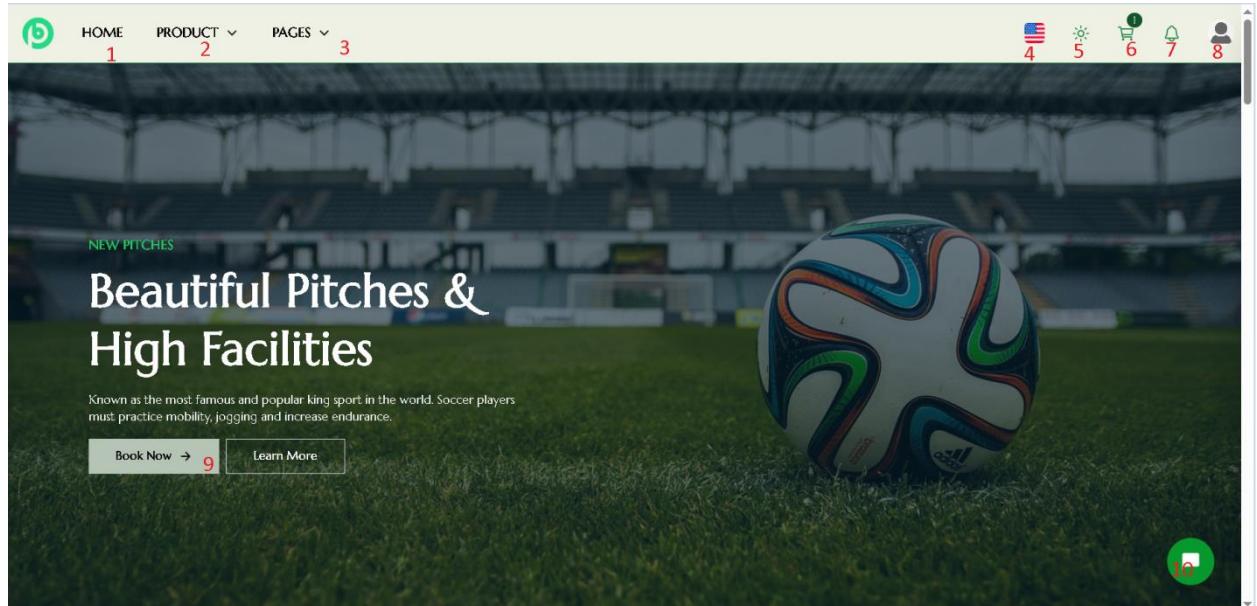


Figure 33: Home Page

- Number 1: Home Page
- Number 2: Booking Page & News
- Number 3: FAQ Page and Contact Page
- Number 4: Change Language
- Number 5: Change Dark mode
- Number 6: View Cart Order
- Number 7: View Notifications
- Number 8: User Menu
- Number 9: Pitches Page
- Number 10: Chat Bot

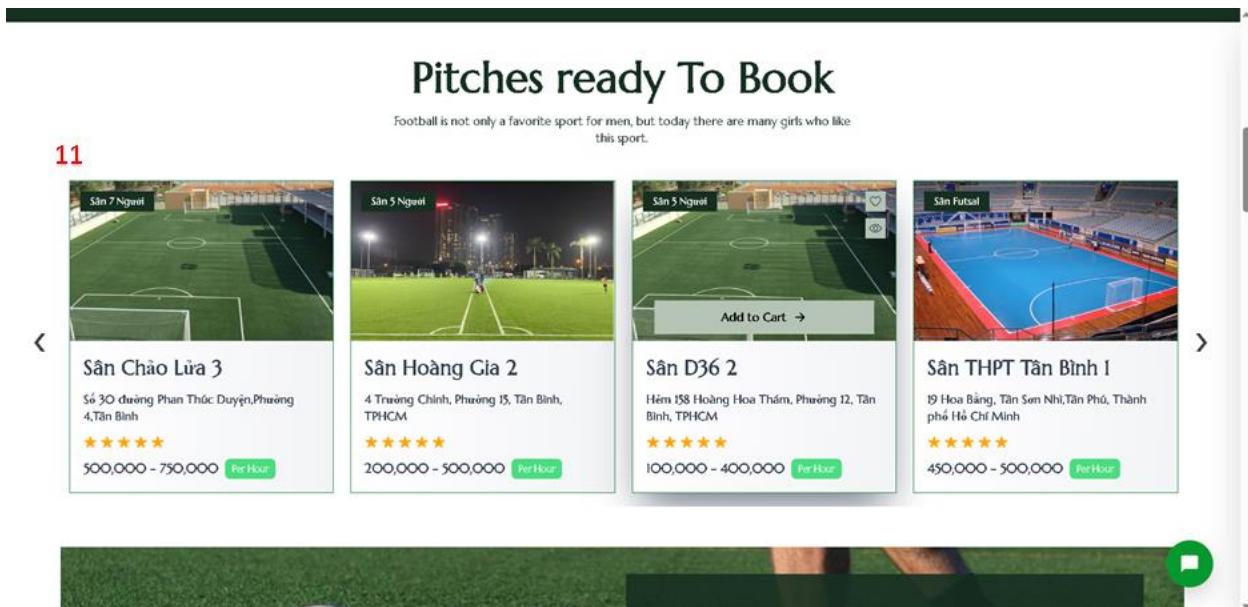


Figure 34: Home Page List of Pitches

- Number 11: List of Pitches

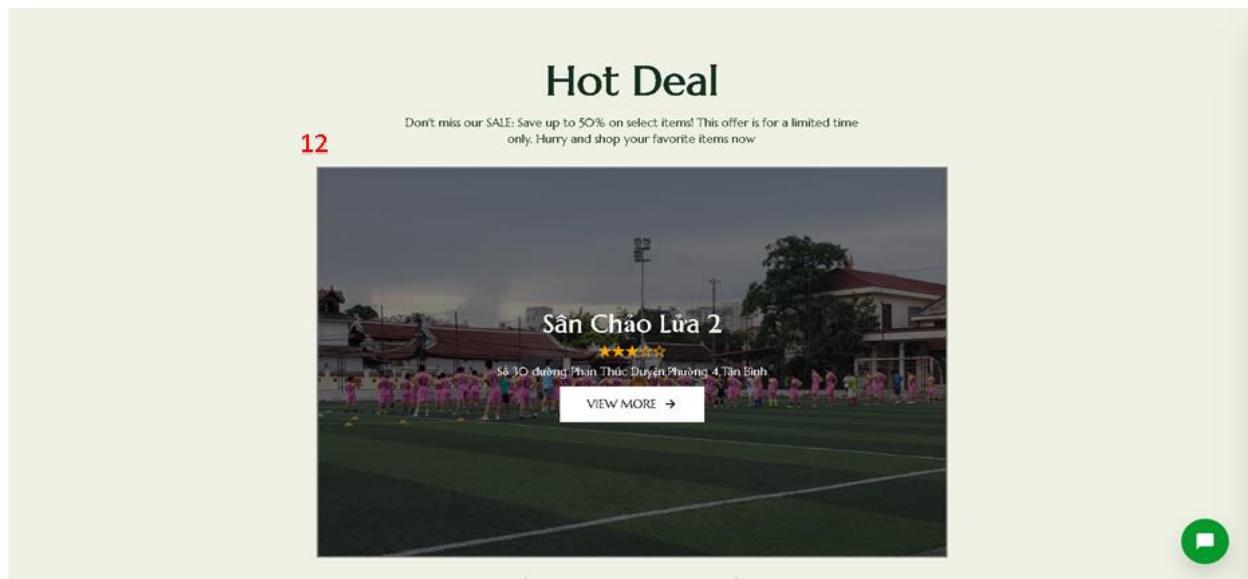


Figure 35: Home Page Hot Deal

- Number 12: Hot Pitch of the day

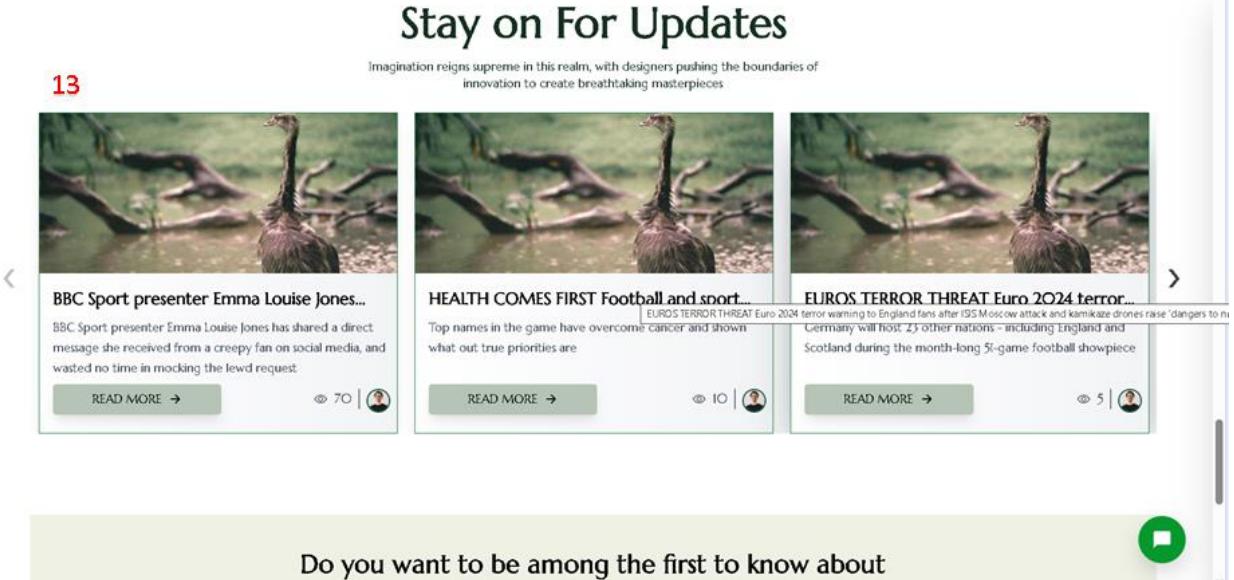


Figure 36: Home Page List of New

- Number 13: List New

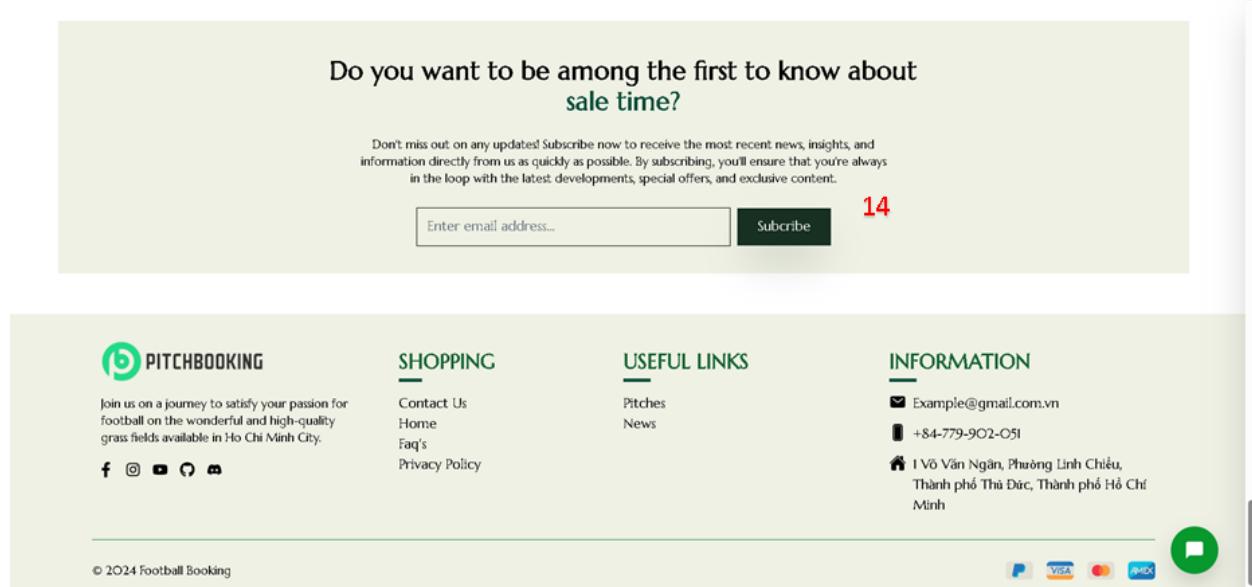


Figure 37: Home Page Contact by Email

- Number 14: Contact by email

### 4.3.2. Pitches Page

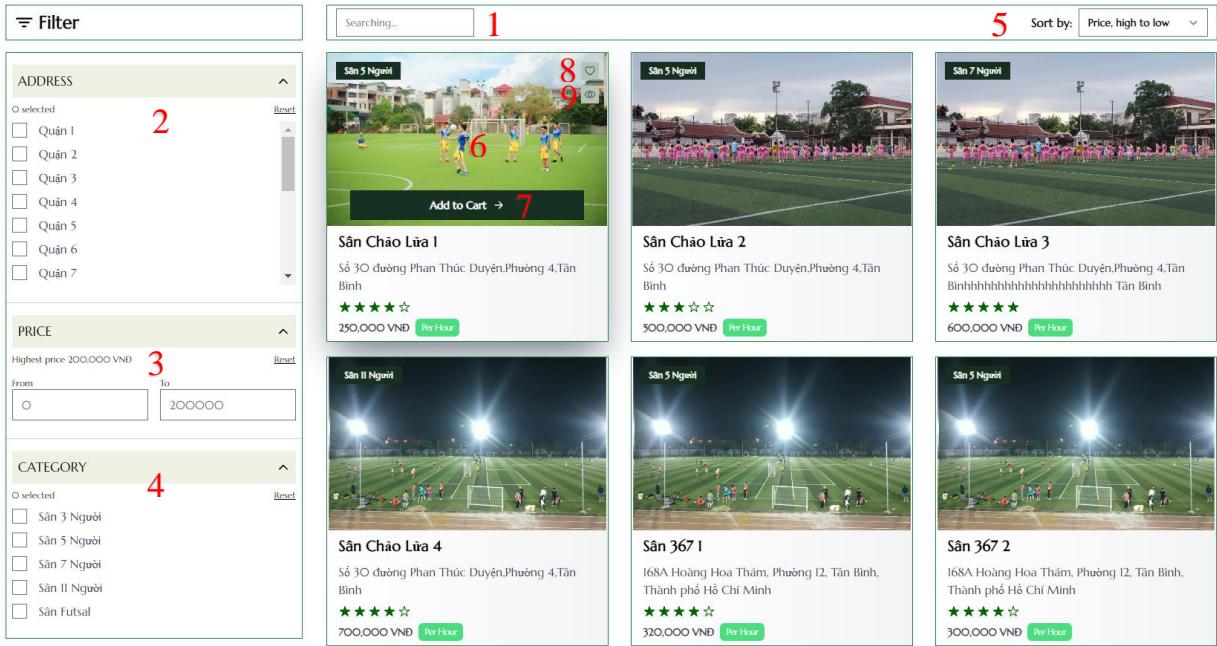


Figure 38: Pitches Page

- Number 1: Search pitches by name
- Number 2: Filter pitches by address
- Number 3: Filter pitches by price
- Number 4: Filter pitches by category
- Number 5: Sort pitches follow conditions
- Number 6: Pitch card
- Number 7: View pitch detail
- Number 8: Add pitch to wish list
- Number 9: Quick view pitch information

### 4.3.3. Pitch Detail Page

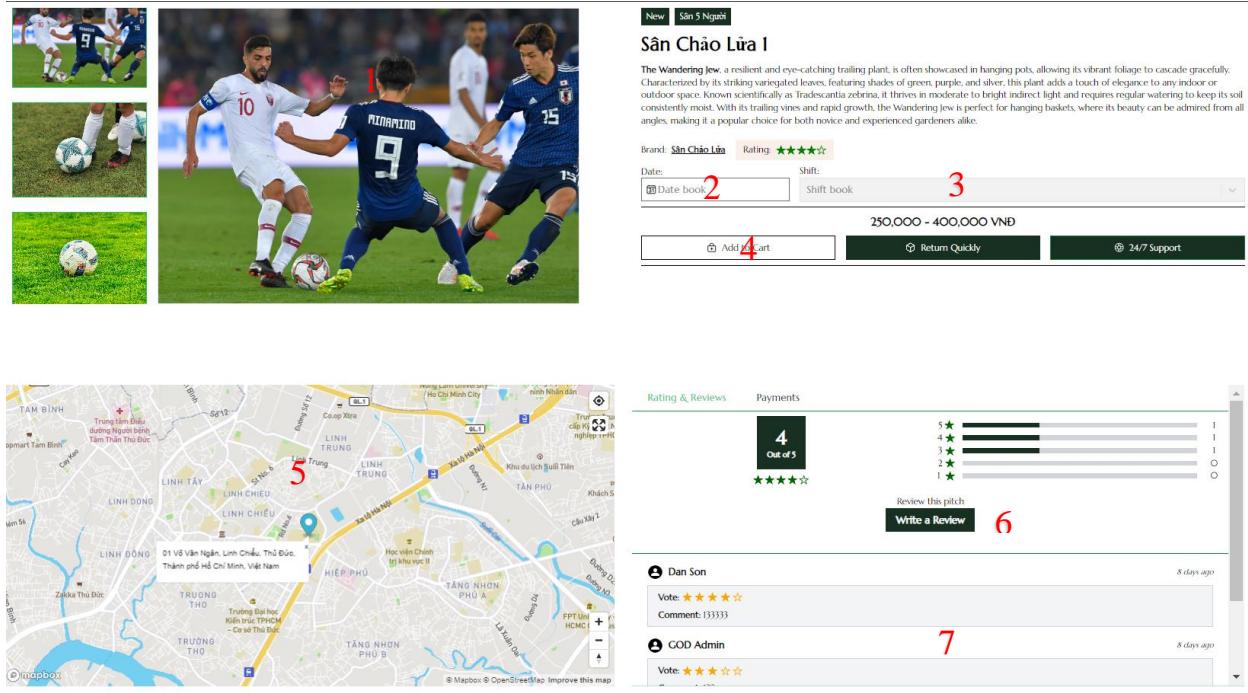


Figure 39: Pitch Detail Page

- Number 1: Pitch thumb and images
- Number 2: Select Date
- Number 3: Select Shift
- Number 4: Add to user cart
- Number 5: Pitch location on map
- Number 6: Review the pitch
- Number 7: Pitch rating and comment

### 4.3.4. FAQs

Frequently Asked Questions

1 How to contact us ?

2 View our contact page to see our contact like phone, address or send to us your question right the way through email

3 Website creator

Figure 40: FAQs Page

- Number 1: Faq's question title
- Number 2: Faq's description
- Number 3: Button close or open faq's description

#### 4.3.4. Login/Sign Up Page

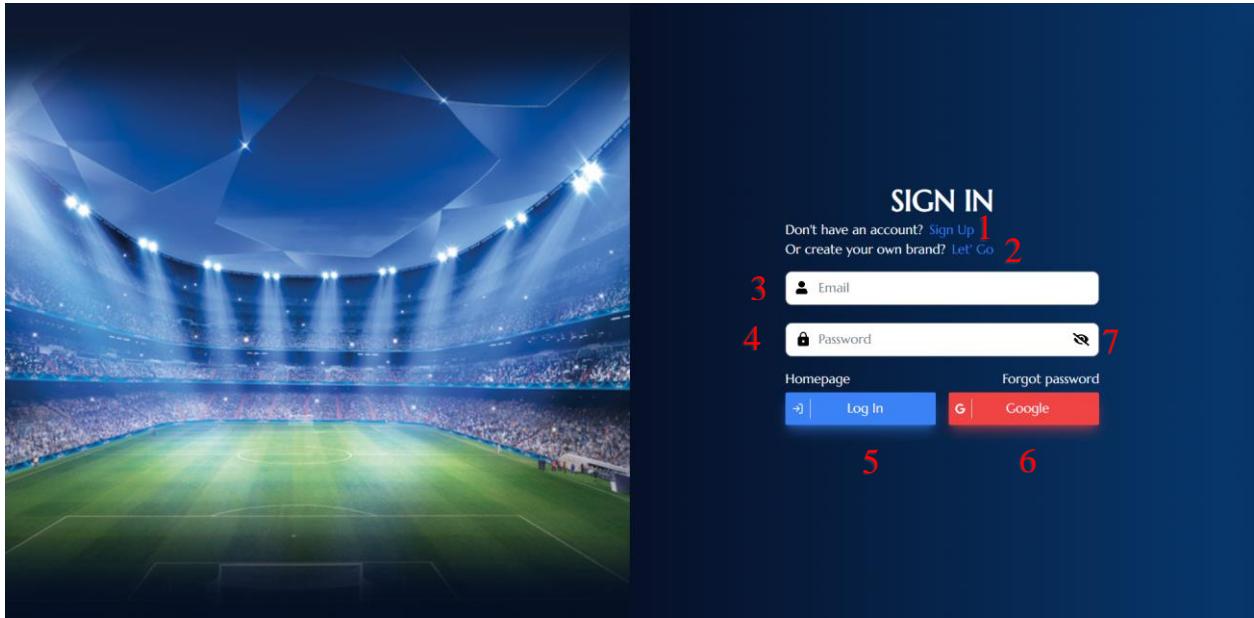


Figure 41: Sign In Page

- Number 1: Button show sign up as a user form
- Number 2: Button show sign up as a pitch owner
- Number 3: Input field for email to login
- Number 4: Input field for password to login
- Number 5: Button to login after fill up email and password
- Number 6: Button to login with a google account
- Number 7: Button to show your password

### 4.3.5. Personal Work space

#### 4.3.5.1. Manage Information

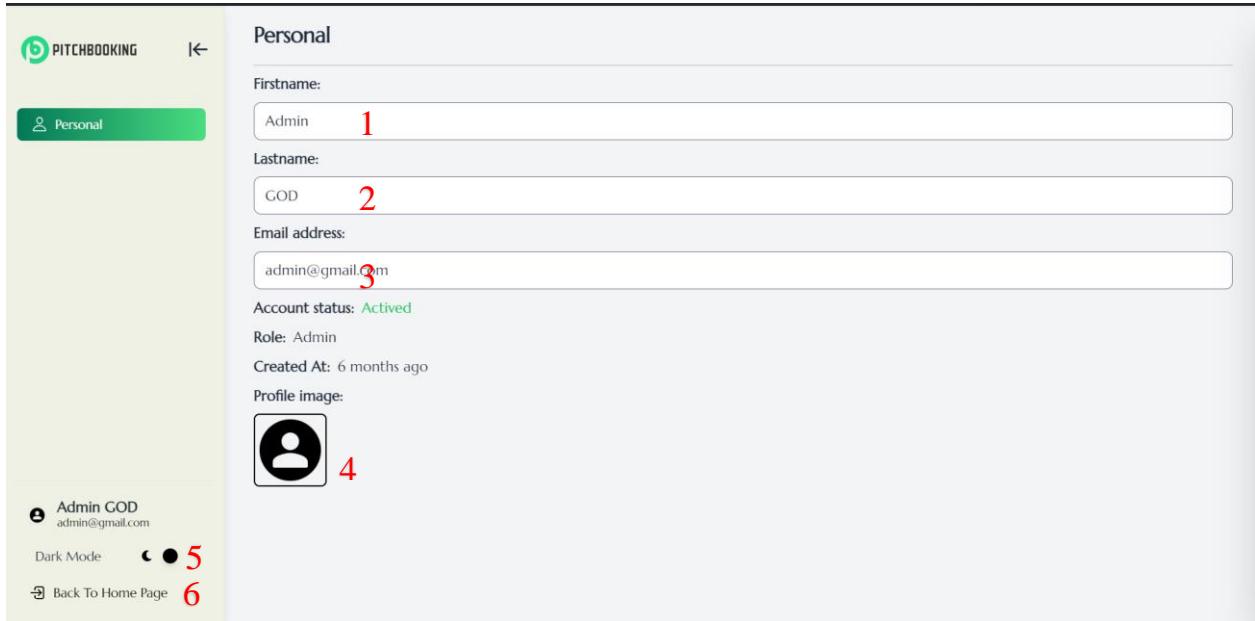


Figure 42: Manage Information Page

- Number 1: First name textbox
- Number 2: Last name textbox
- Number 3: Email address textbox
- Number 4: Image of user
- Number 5: Back to homepage
- Number 6: Dark mode button

### 4.3.5.2. Booking histories

#	TITLE	TOTAL PRICE	CREATE AT	STATUS
1	Sân Chảo Lứa 1	Nan VND	18/04/2024	Pay By Cash
2	Sân Chảo Lứa 1	Nan VND	18/04/2024	Pay By Cash
3	Sân Chảo Lứa 2	Nan VND	18/04/2024	Pending

Figure 43: Booking Histories Page

- Number 1: Search history by name pitch
- Number 2: Detail of booking pitch

### 4.3.5.3. Wish List

Figure 44: Wish List Page

- Number 1: Button remove pitch from wish list
- Number 2: Button navigate to pitch detail page

### 4.3.6. Admin Workspace

#### 4.3.6.1. Admin dashboard

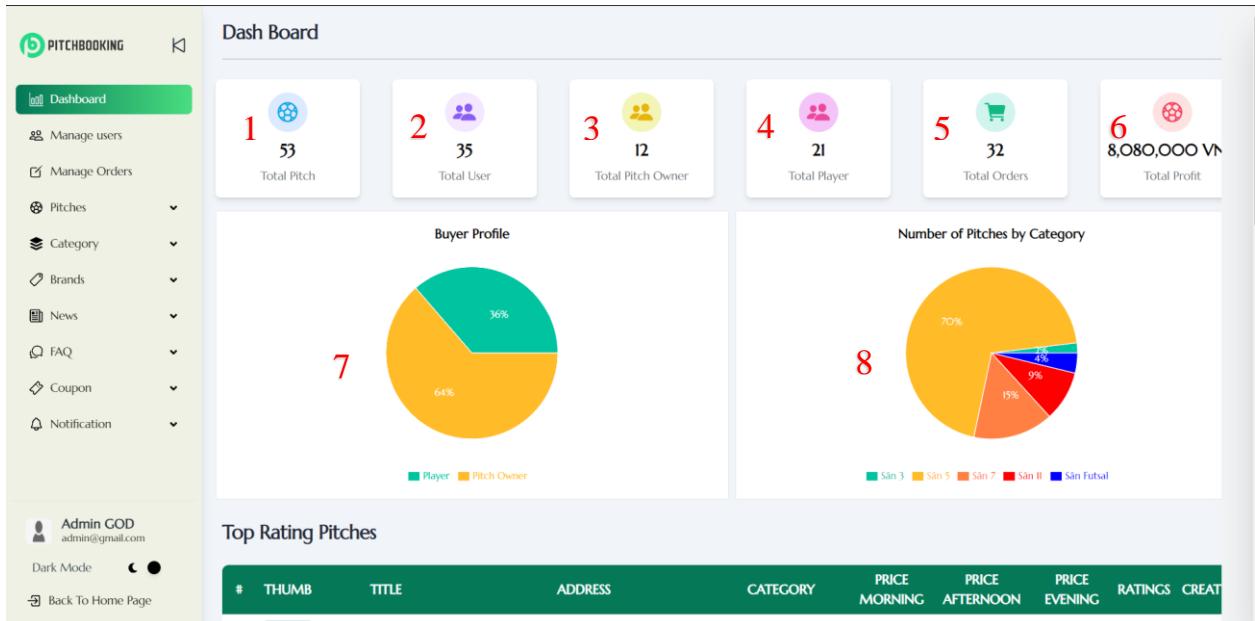


Figure 45: Admin Dashboard Page

- Number 1: Total pitch
- Number 2: Total user
- Number 3: Total pitch owner
- Number 4: Total player
- Number 5: Total Order
- Number 6: Total Profit
- Number 7: Statistics on the type of field bettors
- Number 8: Percentage statistics for all types of courts

### 4.3.6.2. Manage User

The screenshot shows the 'Manage User' page of the PitchBooking admin interface. On the left is a sidebar with navigation links like Dashboard, Manage users, Manage Orders, Pitches, Category, Brands, News, FAQ, Coupon, and Notification. A user profile for 'Admin GOD' is shown at the bottom. The main area has a title 'Manage User' and a search bar 'Search user by email, name, 1'. Below is a table with columns: #, EMAIL, FIRST NAME, LAST NAME, ROLE, STATUS, CREATE AT, and ACTIONS. The table lists six users, each with a red number (1, 2, 3) overlaid. The first user (1) has a red '2' over the email column. The second user (2) has a red '2' over the row number. The third user (3) has a red '3' over the actions column. At the bottom, it says 'Show users 1 - 6 of 35' and has a page navigation.

#	EMAIL	FIRST NAME	LAST NAME	ROLE	STATUS	CREATE AT	ACTIONS
1	admin@gmail.com	Admin	GOD	Admin	Active	09/12/2023	
2	dangthanhuyen0112@gmail.com	dang	owner	Admin	Active	09/12/2023	
3	sanchaolu@gmail.com	Son	Dan	PitchOwner	Active	09/12/2023	
4	san36@gmail.com	Nguyen	Hung	PitchOwner	Active	09/12/2023	
5	sanhoanggia@gmail.com	Hoang	Gia	PitchOwner	Active	09/12/2023	
6	sand36@gmail.com	Nguyen	Phu	PitchOwner	Active	09/12/2023	

Figure 46: Admin Manage User Page

- Number 1: Search User by name, email
- Number 2: User list
- Number 3: Edit user

### 4.3.6.3. Manage Order

The screenshot shows the 'Manage Orders' page of the PitchBooking admin interface. The sidebar and user profile are identical to the previous page. The main area has a title 'Manage Orders' and a search bar 'Search pitch ... 1'. Below is a table with columns: #, THUMB, PITCH, SHIFT, BOOKING BY, PRICE, DISCOUNT, TOTAL PRICE, STATUS, BOOKED AT, and ACTIONS. The table lists six orders, each with a red number (1, 2, 3) overlaid. The first order (1) has a red '2' over the price column. The second order (2) has a red '2' over the row number. The third order (3) has a red '3' over the actions column. At the bottom, it says 'Show orders 1 - 6 of 35' and has a page navigation.

#	THUMB	PITCH	SHIFT	BOOKING BY	PRICE	DISCOUNT	TOTAL PRICE	STATUS	BOOKED AT	ACTIONS
1		Sân Chảo Lửa 1	8 PM - 9 PM	Nguyen Sang	300,000 VND	0%	300,000 VND		14/06/2024	
2		Sân Chảo Lửa 2	9 PM - 10 PM	Nguyen Sang	300,000 VND	0%	300,000 VND		14/06/2024	
3		Sân Chảo Lửa 2	8 PM - 9 PM	Nguyen Sang	300,000 VND	0%	300,000 VND		14/06/2024	
4		Sân D36 2	6 PM - 7 PM	Nguyen Hung	250,000 VND	0%	250,000 VND		14/06/2024	
5		Sân D36 2	11 PM - 12 AM	Nguyen Hung	250,000 VND	0%	250,000 VND		14/06/2024	
6		Sân D36 2	7 PM - 8 PM	Nguyen Hung	250,000 VND	0%	250,000 VND		14/06/2024	

Figure 47: Admin Manage Order Page

- Number 1: Search Order by pitch name
- Number 2: Order list
- Number 3: Delete Order

### 4.3.6.4. Pitches

#### 4.3.6.4.1. Create Pitch

The screenshot shows the 'Create Pitch' page of a web application. On the left is a sidebar with navigation links: Dashboard, Manage users, Manage Orders, Pitches (selected), Create Pitch, Manage Pitches, Category, Brands, News, FAQ, Coupon, Notification, Admin GOD (with email admin@gmail.com), and Dark Mode. The main area has the following fields:

- Name pitch: Name of new pitch **1**
- Owner: Select Owner **2**
- Category: Select... **3**
- Price pitch morning: Price of new pitch **4**
- Address: Address of my pitch **5**
- Price pitch afternoon: Price of new pitch **6**
- Price pitch evening: Price of new pitch **7**
- Brand: brand **8**
- Description: A rich text editor with a toolbar containing File, Edit, View, Insert, Format, Tools, Table, Help, and various styling icons. The number **9** is placed below the toolbar.

Figure 48: Admin Create Pitch Page 1

- Number 1: Name pitch
- Number 2: Owner name
- Number 3: Pitch category
- Number 4: Price of pitch in the morning
- Number 5: Address
- Number 6: Price of pitch in the afternoon
- Number 7: Price of pitch in the evening
- Number 8: Brand Name
- Number 9: Pitch description

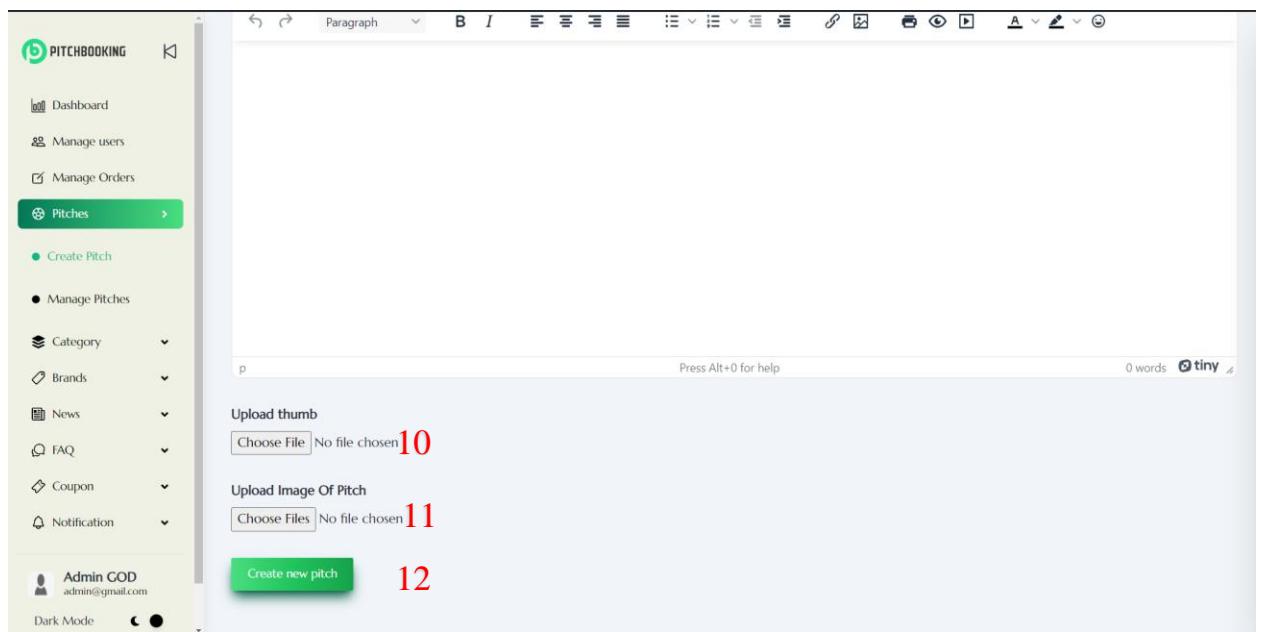
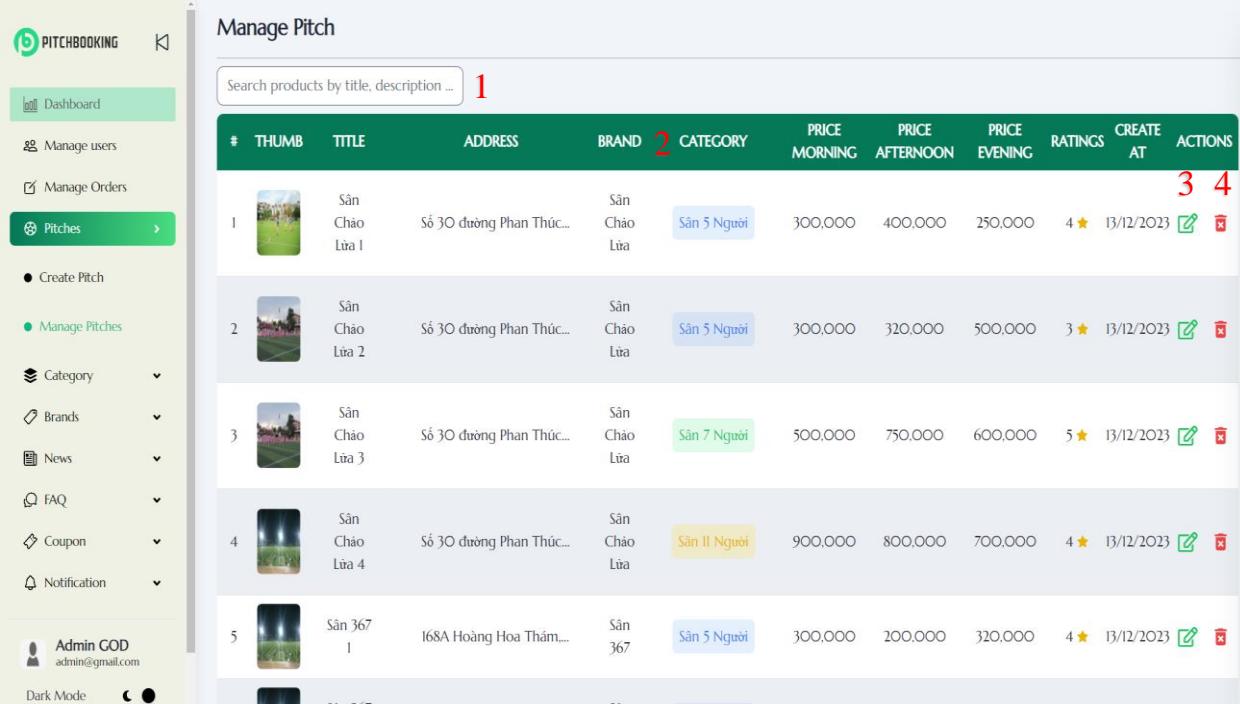


Figure 49: Admin Create Pitch Page 2

- Number 10: Pitch thumb
- Number 11: Pitch Image
- Number 12: Create new pitch

### 4.3.6.4.2. Manage Pitches



The screenshot shows the 'Manage Pitch' page of the PitchBooking application. On the left is a sidebar with navigation links: Dashboard, Manage users, Manage Orders, Pitches (selected), Create Pitch, Manage Pitches, Category, Brands, News, FAQ, Coupon, Notification, Admin COD, and Dark Mode. The main area has a search bar labeled 'Search products by title, description ...' with a red number '1' above it. Below is a table titled 'Manage Pitch' with the following columns: #, THUMB, TITLE, ADDRESS, BRAND, CATEGORY, PRICE MORNING, PRICE AFTERNOON, PRICE EVENING, RATINGS, CREATE AT, and ACTIONS. The table contains five rows of data:

#	THUMB	TITLE	ADDRESS	BRAND	CATEGORY	PRICE MORNING	PRICE AFTERNOON	PRICE EVENING	RATINGS	CREATE AT	ACTIONS
1		Sân Chảo Lửa 1	Số 30 đường Phan Thúc...	Sân Chảo Lửa	Sân 5 Người	300,000	400,000	250,000	4 ★	13/12/2023	
2		Sân Chảo Lửa 2	Số 30 đường Phan Thúc...	Sân Chảo Lửa	Sân 5 Người	300,000	320,000	500,000	3 ★	13/12/2023	
3		Sân Chảo Lửa 3	Số 30 đường Phan Thúc...	Sân Chảo Lửa	Sân 7 Người	500,000	750,000	600,000	5 ★	13/12/2023	
4		Sân Chảo Lửa 4	Số 30 đường Phan Thúc...	Sân Chảo Lửa	Sân 11 Người	900,000	800,000	700,000	4 ★	13/12/2023	
5		Sân 367 1	168A Hoàng Hoa Thám...	Sân 367	Sân 5 Người	300,000	200,000	320,000	4 ★	13/12/2023	
		Sân 367		Sân							

Figure 50: Admin Manage Pitches Page

- Number 1: Search Pitch by title
- Number 2: Pitch list
- Number 3: Edit pitch
- Number 4: Delete pitch

### 4.3.6.5. Category

#### 4.3.6.5.1. Create Category

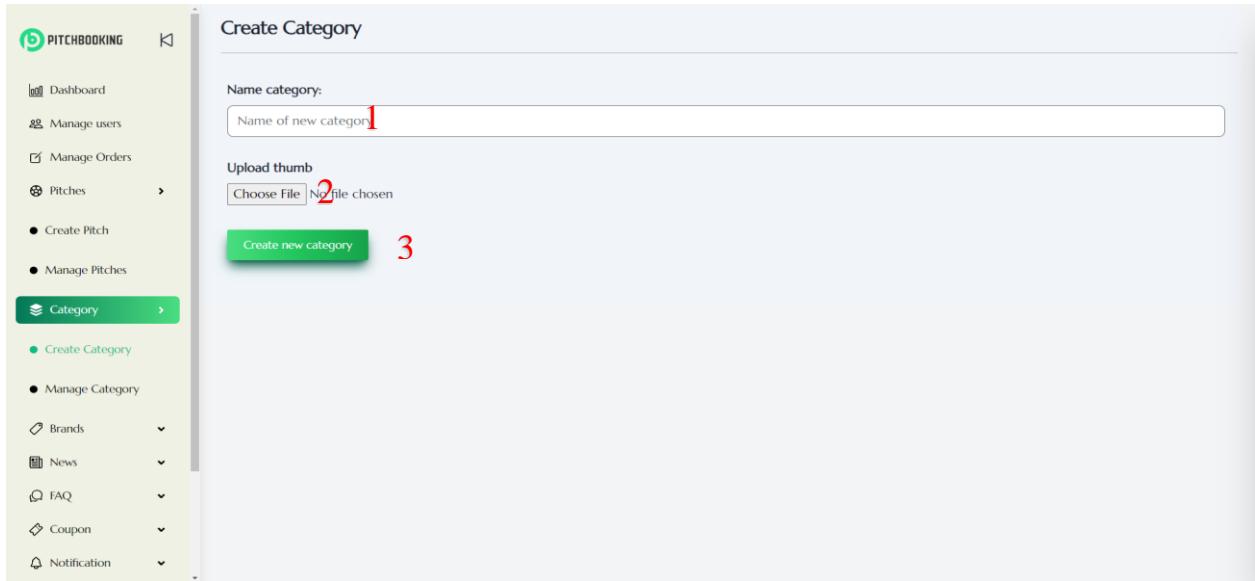
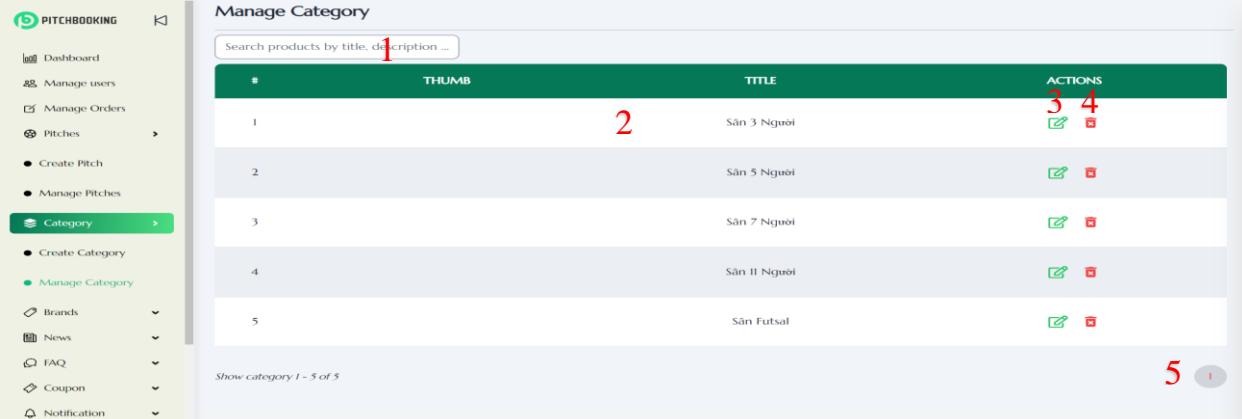


Figure 51: Admin create category page

- Number 1: Name category
- Number 2: Category thumb
- Number 3: Create new Category

### 4.3.6.5.2. Manage Category

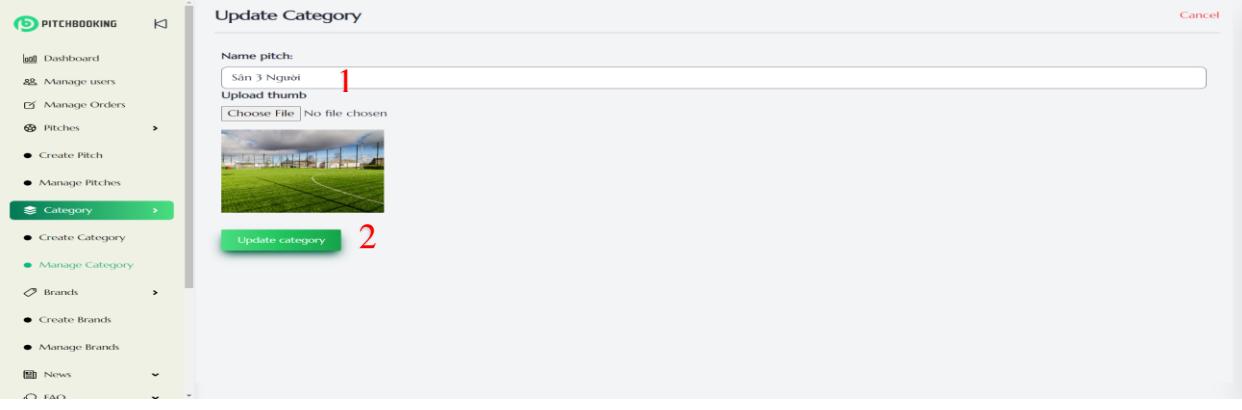


The screenshot shows the 'Manage Category' page in the PitchBooking admin interface. On the left is a sidebar with navigation links like Dashboard, Manage users, Manage Orders, Pitches, Category (selected), Brands, News, FAQ, Coupon, and Notification. The main area has a search bar and a table titled 'Manage Category' with columns: #, THUMB, TITLE, and ACTIONS. The table contains five rows, each with a red number from 1 to 5 corresponding to numbered annotations. Row 1: THUMB (image), TITLE (Sân 3 Người), ACTIONS (Edit icon, Delete icon). Row 2: THUMB (image), TITLE (Sân 5 Người), ACTIONS (Edit icon, Delete icon). Row 3: THUMB (image), TITLE (Sân 7 Người), ACTIONS (Edit icon, Delete icon). Row 4: THUMB (image), TITLE (Sân 11 Người), ACTIONS (Edit icon, Delete icon). Row 5: THUMB (image), TITLE (Sân Futsal), ACTIONS (Edit icon, Delete icon). A pagination bar at the bottom right shows 'Show category 1 - 5 of 5' and a red number 5.

Figure 52: Admin Manage Category Page

- Number 1: Search Category by title
- Number 2: Category list
- Number 3: Edit Category
- Number 4: Delete category
- Number 5: Pagination

### 4.3.6.5.3. Update Category



The screenshot shows the 'Update Category' page in the PitchBooking admin interface. The sidebar is identical to Figure 52. The main area has a form titled 'Update Category'. It includes a 'Name pitch:' input field containing 'Sân 3 Người' (labeled 1) and a 'Upload thumb' section with a file input labeled 'Choose File' and a placeholder 'No file chosen'. Below the input fields is a thumbnail image of a soccer field (labeled 2). At the bottom is a green 'Update category' button.

Figure 53: Admin Update Category Page

- Number 1: Category Name
- Number 2: Category Thumbnail name

### 4.3.6.6. Brands

#### 4.3.6.6.1. Create Brands

The screenshot shows the 'Create Brand' page of a web application. On the left is a sidebar with various menu items: Dashboard, Manage users, Manage Orders, Pitches, Category, Brands (which is highlighted in green), Create Brands, Manage Brands, News, FAQ, Coupon, Notification, Admin GOD (with email admin@gmail.com), and Dark Mode. The main area is titled 'Create Brand'. It contains five numbered input fields: 1. 'Name Brand:' with the placeholder 'Name of Your Brand' and the value '1'. 2. 'Owner:' with the placeholder 'Select Owner' and the value '2'. 3. 'Category:' with the placeholder 'Select...' and the value '3'. 4. 'Address:' with the placeholder 'Address of Your Brand' and the value '4'. 5. 'Description:' which is a rich text editor toolbar with the value '5'.

Figure 54: Admin Create Brand Page I

- Number 1: Brand Name
- Number 2: Owner name
- Number 3: Category
- Number 4: Brand Address
- Number 5: Brand Description

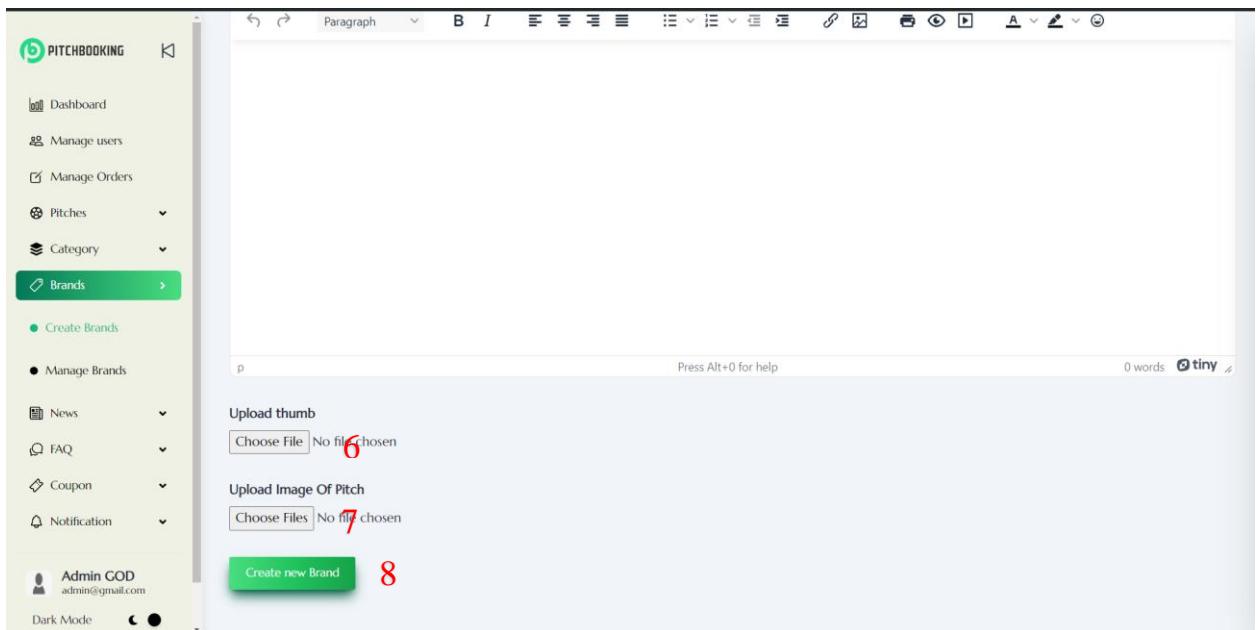
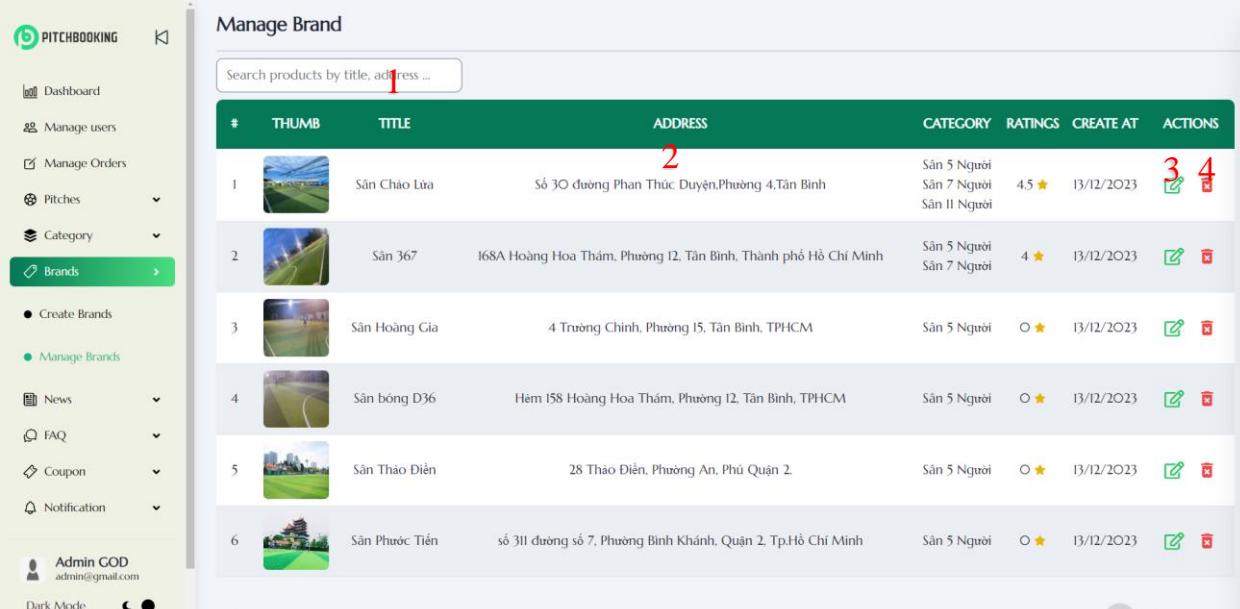


Figure 55: Admin Create Brand Page 2

- Number 6: Brand thumb
- Number 7: Brand Image
- Number 8: Create new Brand

### 4.3.6.6.2. Manage Brands



The screenshot shows the 'Manage Brand' page from the PITCHBOOKING admin interface. On the left, there's a sidebar with various navigation links. The 'Brands' link is highlighted in green, indicating the current section. The main area displays a table of brands:

#	THUMB	TITLE	ADDRESS	CATEGORY	RATINGS	CREATE AT	ACTIONS
1		Sân Chảo Lửa	Số 30 đường Phan Thủ Duyễn, Phường 4, Tân Bình	Sân 5 Người	4.5 ★	13/12/2023	
2		Sân 367	168A Hoàng Hoa Thám, Phường 12, Tân Bình, Thành phố Hồ Chí Minh	Sân 5 Người	4 ★	13/12/2023	
3		Sân Hoàng Gia	4 Trường Chinh, Phường 15, Tân Bình, TPHCM	Sân 5 Người	0 ★	13/12/2023	
4		Sân bóng D36	Hẻm 158 Hoàng Hoa Thám, Phường 12, Tân Bình, TPHCM	Sân 5 Người	0 ★	13/12/2023	
5		Sân Thảo Điền	28 Thảo Điền, Phường An Phú, Quận 2	Sân 5 Người	0 ★	13/12/2023	
6		Sân Phước Tiến	số 311 đường số 7, Phường Bình Khánh, Quận 2, TP.Hồ Chí Minh	Sân 5 Người	0 ★	13/12/2023	

Figure 56: Admin Manage Brands Page

- Number 1: Search Brand by title
- Number 2: Brand list
- Number 3: Edit Brand
- Number 4: Delete Brand

### 4.3.6.7. News

#### 4.3.6.7.1. Create News

The screenshot shows the 'Create News' page in a web application. The left sidebar has a 'News' section with 'Create News' highlighted. The main area has fields for 'Title of news' (containing '1 news'), 'Description' (containing '2 news'), and 'Content' (with a rich text editor toolbar). Below these are 'Upload thumb' and 'Upload Image' fields, both showing 'No file chosen'. At the bottom is a green 'Create news' button labeled '6'. Red numbers 1 through 6 are overlaid on the corresponding fields and button.

Figure 57: Admin Create News Page

- Number 1: Input field for title of the new
- Number 2: Input field for description of the new
- Number 3: Text area for content of the new
- Number 4: Button to upload thumbnail of the new
- Number 5: Button to upload image of the new
- Number 6: Button to confirm create a new article

### 4.3.6.7.2. Manage News

#	THUMB	TITLE	ADDRESS	CATEGORY	RATINGS	CREATE AT	ACTIONS
1		Sân Chảo Lửa	Số 30 đường Phan Thúc Duyện, Phường 4, Tân Bình	Sân 5 Người	4.5 ★	13/12/2023	
2		Sân 367	168A Hoàng Hoa Thám, Phường 12, Tân Bình, Thành phố Hồ Chí Minh	Sân 5 Người	4 ★	13/12/2023	
3		Sân Hoàng Gia	4 Trường Chinh, Phường 15, Tân Bình, TPHCM	Sân 5 Người	0 ★	13/12/2023	
4		Sân bóng D36	Hẻm 158 Hoàng Hoa Thám, Phường 12, Tân Bình, TPHCM	Sân 5 Người	0 ★	13/12/2023	
5		Sân Thảo Điền	28 Thảo Điền, Phường An Phú Quận 2.	Sân 5 Người	0 ★	13/12/2023	
6		Sân Phước Tiến	số 311 đường số 7, Phường Bình Khánh, Quận 2, Tp.Hồ Chí Minh	Sân 5 Người	0 ★	13/12/2023	

Chưa có kết quả

Figure 58: Admin Manage News Page

- Number 1: Input field for search new by title or description
- Number 2: Button to update new information
- Number 3: Button to delete new
- Number 4: Pagination

### 4.3.6.8. FAQ's

#### 4.3.6.8.1. Create FAQ's

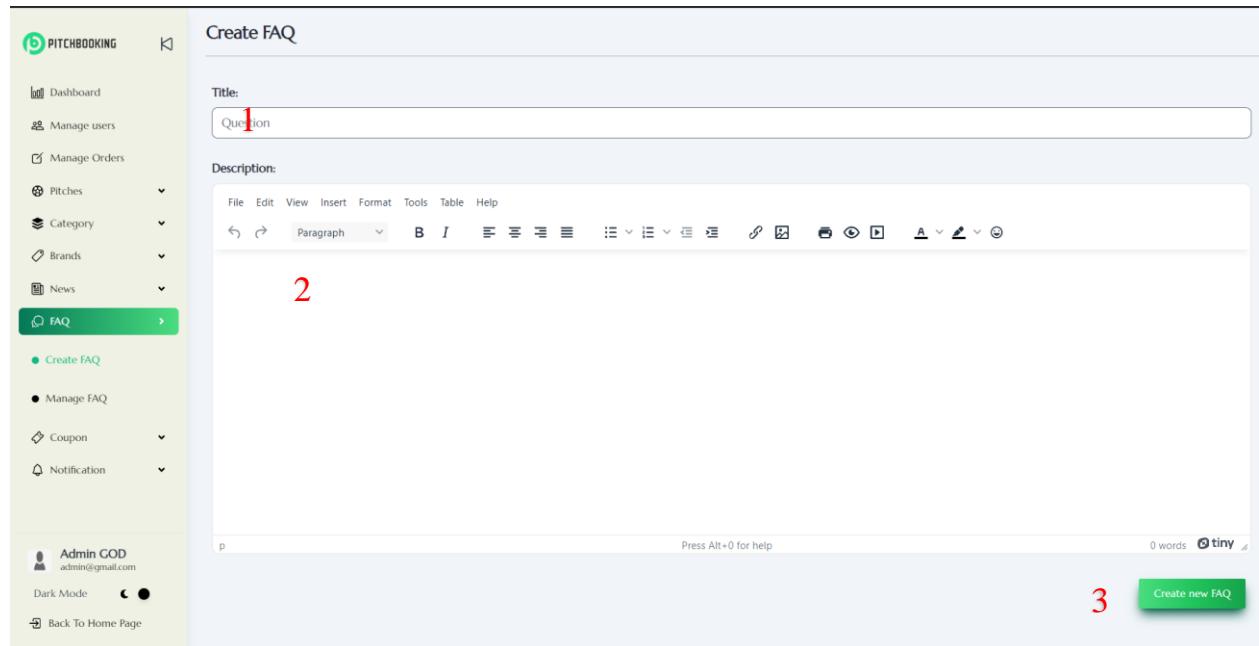


Figure 59: Admin Create FAQ's Page

- Number 1: Input field for Title of Faq's
- Number 2: Text area for description of Faq's
- Number 3: Button to confirm create a new question

### 4.3.6.8.2. Manage FAQ's

The screenshot shows the 'Manage FAQ' page of the PitchBooking application. The interface includes a sidebar with various management links like Dashboard, Manage users, Manage Orders, Pitches, Category, Brands, News, Create FAQ, and Manage FAQ. The main area has a search bar labeled 'Search FAQ by question 1'. Below it is a table with two rows of FAQ entries. Each entry has a number, title, description, and actions (edit and delete). A pagination indicator 'Show FAQ 1 - 2 of 2' is at the bottom. Red numbers 1 through 4 are overlaid on specific elements: 1 is on the search bar, 2 is on the edit icon of the first row, 3 is on the delete icon of the first row, and 4 is on the pagination indicator.

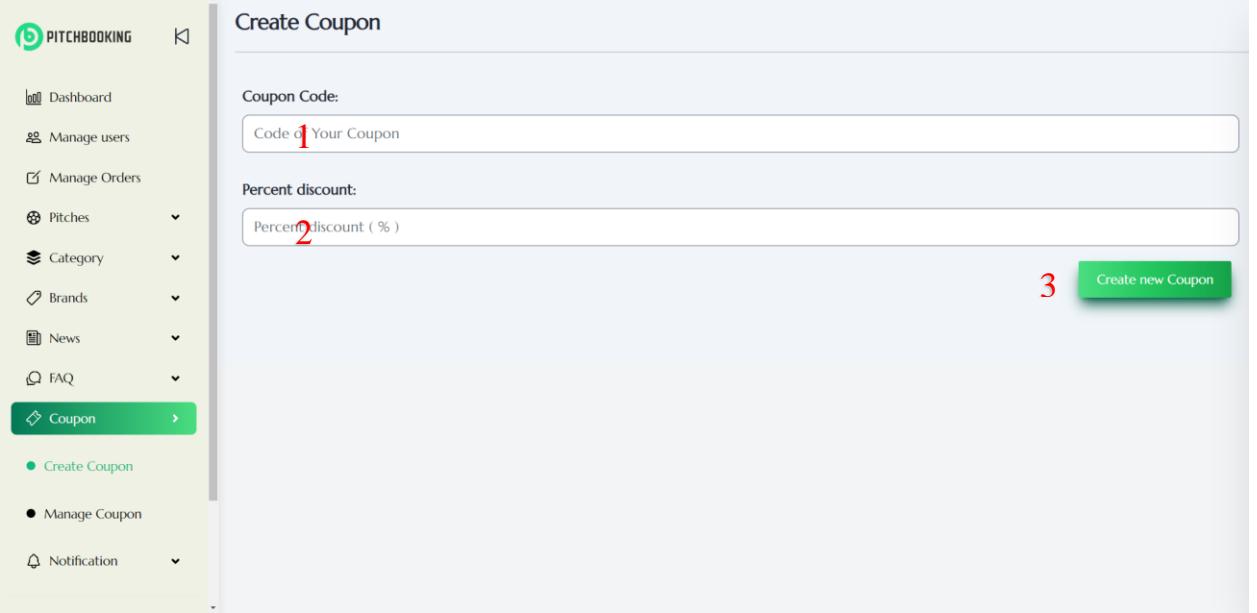
#	TITLE	DESCRIPTION	ACTIONS
1	How to contact us ?	View our contact page to see our contact like phone, address or send to us your question right the way through email	
2	Website creator	<p>1212</p>	

Figure 60: Manage FAQ's Page

- Number 1: Input field for search Faq's by title
- Number 2: Button update information of the question
- Number 3: Button to delete the question
- Number 4: Pagination

### 4.3.6.9. Coupon

#### 4.3.6.9.1. Create Coupon



The screenshot shows the 'Create Coupon' page of a web application. On the left is a sidebar with the 'PITCHBOOKING' logo and several menu items: Dashboard, Manage users, Manage Orders, Pitches (with a dropdown arrow), Category (with a dropdown arrow), Brands (with a dropdown arrow), News (with a dropdown arrow), FAQ (with a dropdown arrow), and a 'Coupon' section with 'Create Coupon' and 'Manage Coupon' options. The 'Coupon' section is highlighted with a green background. The main content area is titled 'Create Coupon'. It contains two input fields: 'Coupon Code:' with the placeholder 'Code of Your Coupon' and 'Percent discount:' with the placeholder 'Percent discount ( % )'. A red number '1' is placed above the first input field, and a red number '2' is placed above the second input field. In the bottom right corner of the main area, there is a green button labeled 'Create new Coupon' with a red number '3' placed to its left.

Figure 61: Admin Create Coupon Page

- Number 1: Input field for coupon code
- Number 2: Input field for coupon percentage discount
- Number 3: Button confirm create a new coupon

### 4.3.6.9.2. Manage Coupon

The screenshot shows the 'Manage Coupon' page of the PitchBooking admin interface. On the left, there's a sidebar with various navigation options like Dashboard, Manage users, Manage Orders, Pitches, Category, Brands, News, FAQ, and a prominent 'Coupon' button which is highlighted in green. Below the sidebar, there are three more options: Create Coupon, Manage Coupon (which is also highlighted in green), and Notification. The main content area is titled 'Manage Coupon' and features a search bar labeled 'Search coupon by title'. Below the search bar is a table with five rows of coupon information. The table has columns for '#', COUPON CODE, PERCENT, and ACTIONS. Each row contains a number from 1 to 5, a coupon code (SALE3, SALE4, SONDAH, SANCHAOLUAI, COUPONTEST123), a percentage value (10%, 20%, 100%, 21%, 5%), and two actions: a green pencil icon for edit and a red trash bin icon for delete. A message at the bottom says 'Show coupon 1 - 5 of 5'. To the right of the table, there's a small circular icon with the number 4 and a red exclamation mark.

#	COUPON CODE	PERCENT	ACTIONS
1	SALE3	10%	
2	SALE4	20%	
3	SONDAH	100%	
4	SANCHAOLUAI	21%	
5	COUPONTEST123	5%	

Figure 62: Admin Manage Coupon Page

- Number 1: Input field for searching coupon by code
- Number 2: Button to update coupon information
- Number 3: Button to delete coupon
- Number 4: Pagination

### 4.3.6.10. Notification

#### 4.3.6.10.1. Create Notification

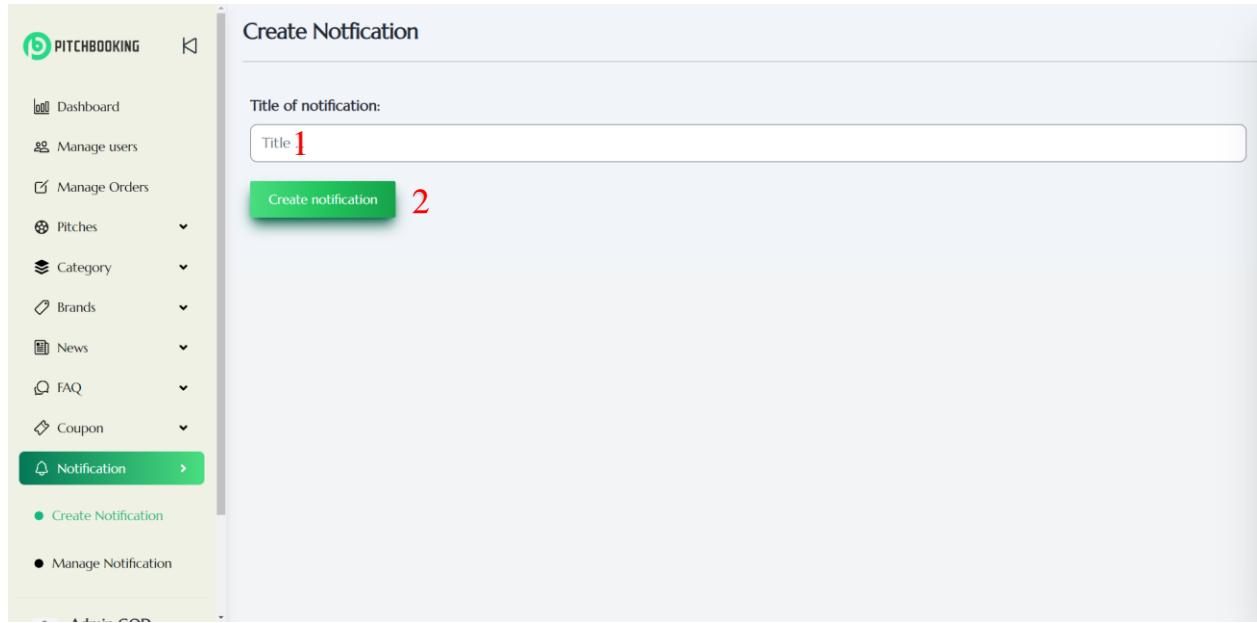
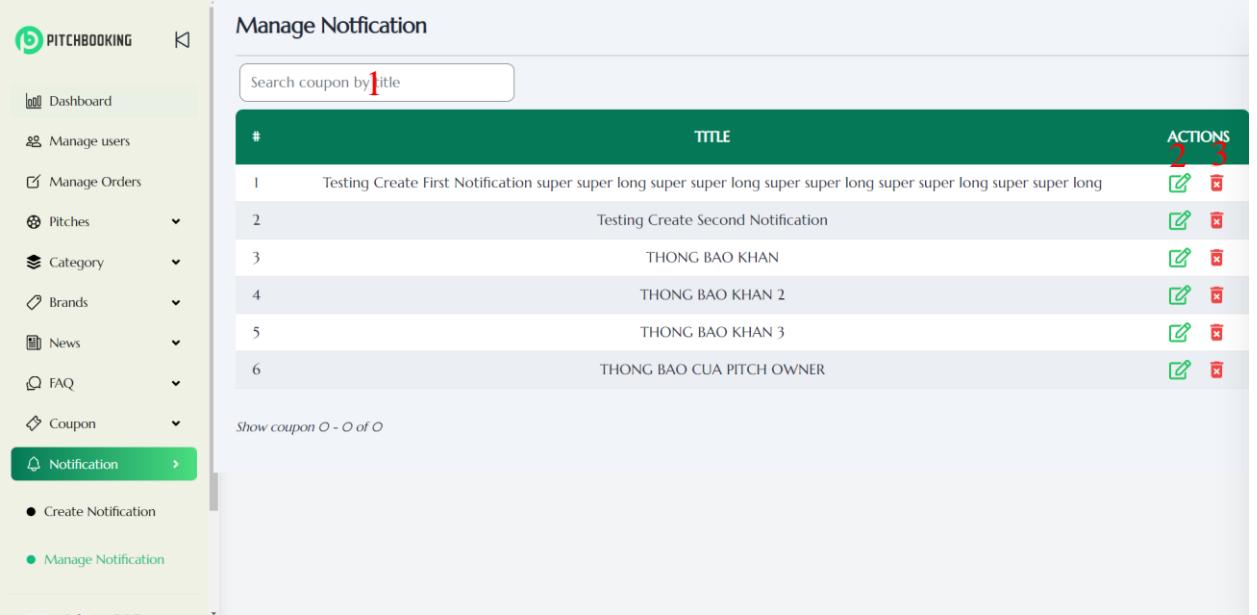


Figure 63: Admin Create Notification Page

- Number 1: Input field for notification title
- Number 2: Button to confirm create a new notification

### 4.3.6.10.2. Manage Notification



The screenshot shows the 'Manage Notification' page from the PitchBooking application. The left sidebar contains navigation links for Dashboard, Manage users, Manage Orders, Pitches, Category, Brands, News, FAQ, Coupon, and two active buttons: 'Create Notification' (highlighted in green) and 'Manage Notification' (highlighted in blue). The main content area is titled 'Manage Notification' and features a search bar labeled 'Search coupon by Title'. Below the search bar is a table with columns '#', 'TITLE', and 'ACTIONS'. The table lists six notifications:

#	TITLE	ACTIONS
1	Testing Create First Notification super super long	
2	Testing Create Second Notification	
3	THONG BAO KHAN	
4	THONG BAO KHAN 2	
5	THONG BAO KHAN 3	
6	THONG BAO CUA PITCH OWNER	

At the bottom of the table, it says 'Show coupon 0 - 0 of 0'.

Figure 64: Admin Manage Notification Page

- Number 1: Input field for searching coupon by title
- Number 2: Button to update notification information
- Number 3: Button to delete notification

### 4.3.7. Pitch Owner Workspace

#### 4.3.7.1. Pitches

##### 4.3.7.1.1. Create Pitch

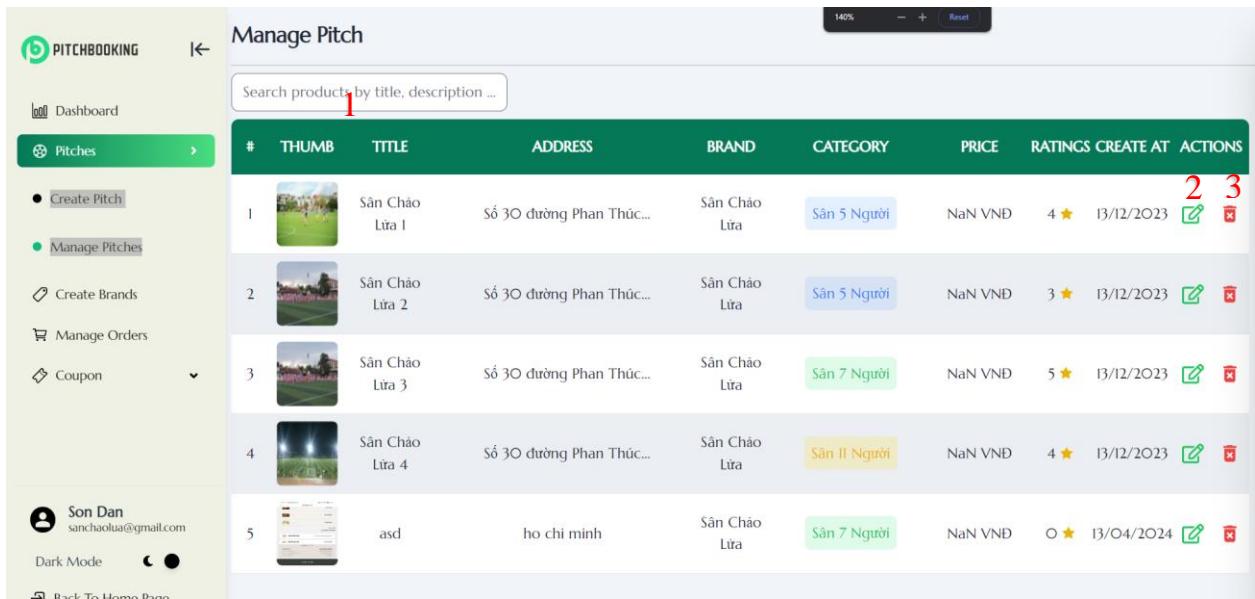
The screenshot shows the 'Create Pitch' form in the PitchOwner workspace. The form fields are numbered as follows:

- 1**: Name pitch (input field: Name of new pitch)
- 2**: Owner (input field: Son Dan)
- 3**: Price pitch (input field: Price of new pitch)
- 4**: Address (input field: Address of new pitch)
- 5**: Category (input field: Select...)
- 6**: Brand (input field: San Chay Liba)
- 7**: Description (Rich Text Editor area)
- 8**: Upload thumbnail (input field: Choose file, No files chosen)
- 9**: Upload image of pitch (input field: Choose files, No files chosen)
- 10**: Create button (green button)

Figure 65: Pitch Owner Create Pitch Page

- Number 1: Name pitch
- Number 2: Owner
- Number 3: Price pitch
- Number 4: Address
- Number 5: Category
- Number 6: Brand
- Number 7: Description
- Number 8: Upload Thumbnail
- Number 9: Update Image
- Number 10: Button Confirm

### 4.3.7.1.2. Manage Pitch



The screenshot shows the 'Manage Pitch' page of the PitchBooking application. On the left, there's a sidebar with navigation links: Dashboard, Pitches (selected), Create Pitch, Manage Pitches, Create Brands, Manage Orders, Coupon, and a user profile for Son Dan (sonchaolua@gmail.com). The main area is titled 'Manage Pitch' and features a search bar. Below it is a table with the following data:

#	THUMB	TITLE	ADDRESS	BRAND	CATEGORY	PRICE	RATINGS	CREATE AT	ACTIONS
1		Sân Chảo Lứa 1	Số 30 đường Phan Thúc...	Sân Chảo Lứa	Sân 5 Người	NaN VND	4 ★	13/12/2023	<span>2</span> <span>3</span>
2		Sân Chảo Lứa 2	Số 30 đường Phan Thúc...	Sân Chảo Lứa	Sân 5 Người	NaN VND	3 ★	13/12/2023	<span>2</span> <span>3</span>
3		Sân Chảo Lứa 3	Số 30 đường Phan Thúc...	Sân Chảo Lứa	Sân 7 Người	NaN VND	5 ★	13/12/2023	<span>2</span> <span>3</span>
4		Sân Chảo Lứa 4	Số 30 đường Phan Thúc...	Sân Chảo Lứa	Sân 11 Người	NaN VND	4 ★	13/12/2023	<span>2</span> <span>3</span>
5		asd	ho chí minh	Sân Chảo Lứa	Sân 7 Người	NaN VND	0 ★	13/04/2024	<span>2</span> <span>3</span>

Figure 66: Pitch Owner Manage Pitch Page

- Number 1: Search pitch by name
- Number 2: Button update pitch information
- Number 3: Button delete pitch

### 4.3.7.2. Create Brand

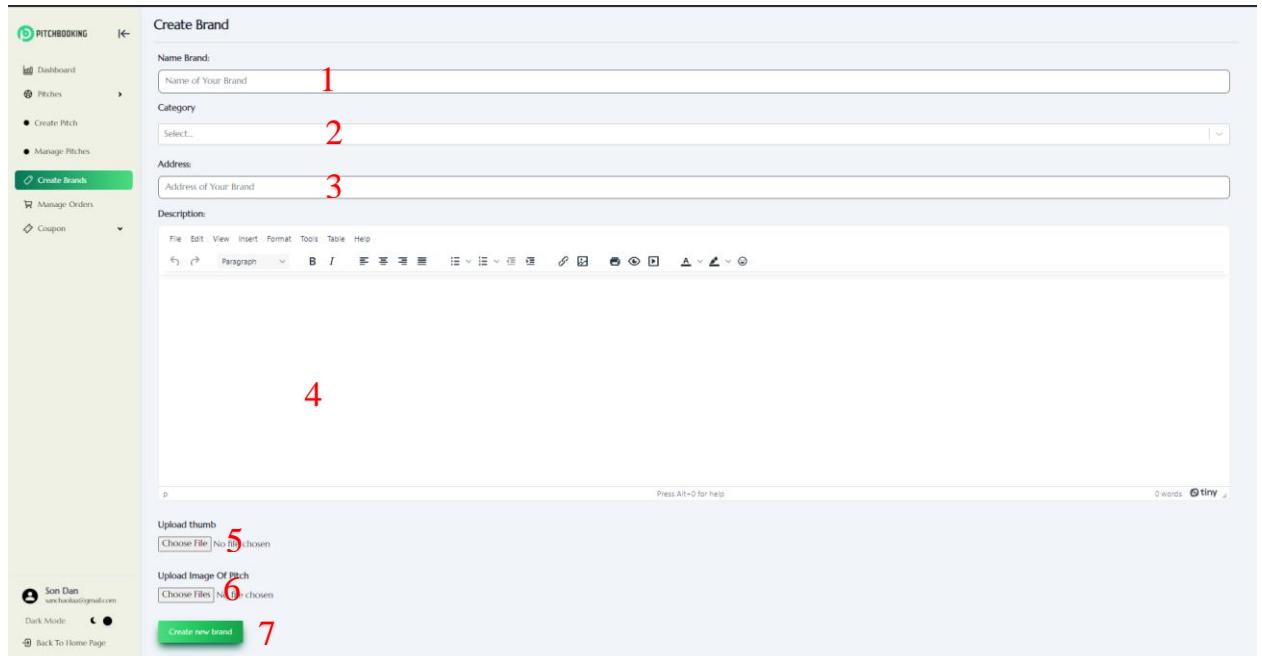
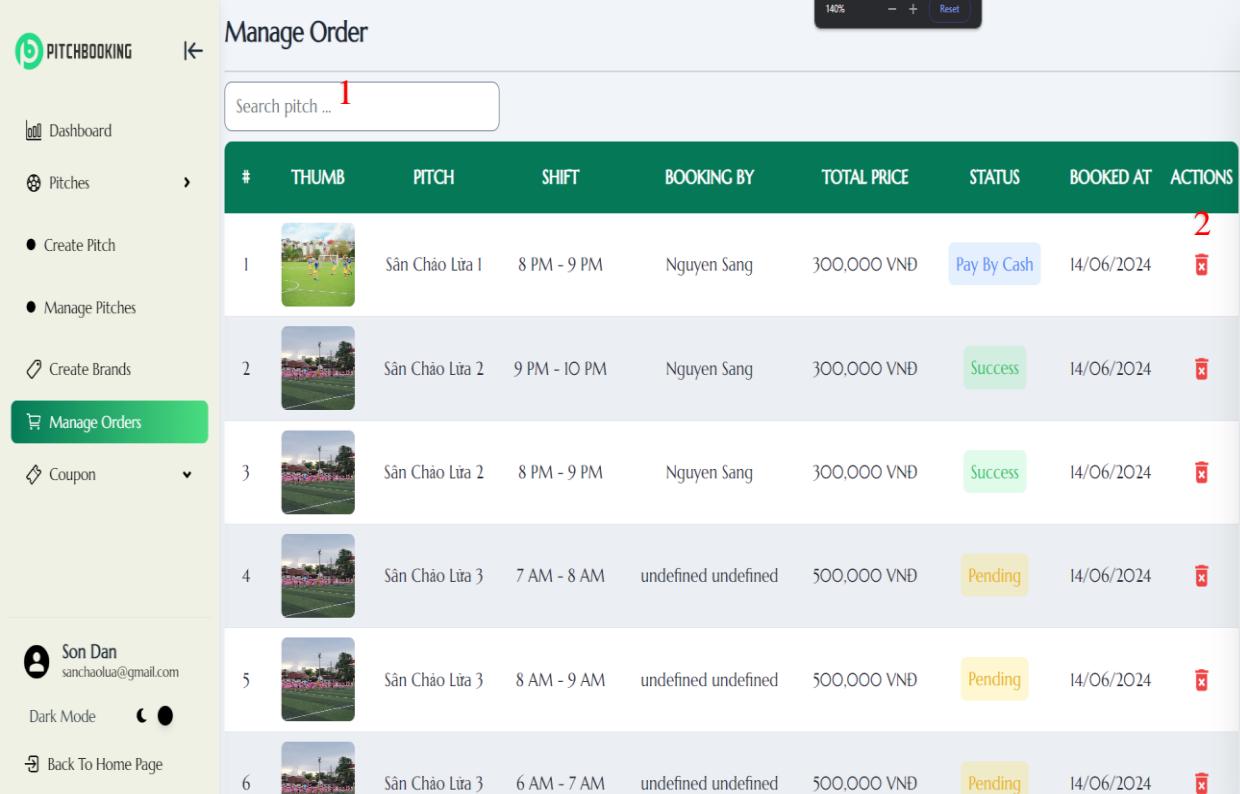


Figure 67: Pitch Owner Create Brand Page

- Number 1: Name brand
- Number 2: Category
- Number 3: Address
- Number 4: Description
- Number 5: Upload Thumbnail
- Number 6: Update Image
- Number 7: Button Confirm

### 4.3.7.3. Manage Orders



The screenshot shows the 'Manage Order' page of the PitchBooking system. The left sidebar includes links for Dashboard, Pitches (Create Pitch, Manage Pitches), Create Brands, Manage Orders (highlighted in green), Coupon, and a user profile for Son Dan (sanchaolua@gmail.com). The main area displays a table of orders:

#	THUMB	PITCH	SHIFT	BOOKING BY	TOTAL PRICE	STATUS	BOOKED AT	ACTIONS
1		Sân Chảo Lửa 1	8 PM - 9 PM	Nguyen Sang	300,000 VND	<span>Pay By Cash</span>	14/06/2024	<span>2</span> <span>trash</span>
2		Sân Chảo Lửa 2	9 PM - 10 PM	Nguyen Sang	300,000 VND	<span>Success</span>	14/06/2024	<span>trash</span>
3		Sân Chảo Lửa 2	8 PM - 9 PM	Nguyen Sang	300,000 VND	<span>Success</span>	14/06/2024	<span>trash</span>
4		Sân Chảo Lửa 3	7 AM - 8 AM	undefined undefined	500,000 VND	<span>Pending</span>	14/06/2024	<span>trash</span>
5		Sân Chảo Lửa 3	8 AM - 9 AM	undefined undefined	500,000 VND	<span>Pending</span>	14/06/2024	<span>trash</span>
6		Sân Chảo Lửa 3	6 AM - 7 AM	undefined undefined	500,000 VND	<span>Pending</span>	14/06/2024	<span>trash</span>

Figure 68: Pitch Owner Manage Order Page

- Number 1: Search order by name pitch
- Number 2: Delete order

### 4.3.7.4. Manage Coupon

#### 4.3.7.4.1. Create Coupon

The screenshot shows the 'Create Coupon' page of the PitchBooking application. On the left, there's a sidebar with various navigation links: Dashboard, Pitches, Create Pitch, Manage Pitches, Create Brands, Manage Orders, and a highlighted 'Create Coupon' link. Below that, it shows the user profile 'Son Dan' and an email address 'sanchoalua@gmail.com'. There are also Dark Mode and Back To Home Page buttons. The main content area is titled 'Create Coupon' and has two input fields: 'Coupon Code:' containing 'Code of 1' and 'Percent discount:' containing 'Percent 2'. At the bottom right is a green button labeled 'Create new Coupon'. Red numbers 1, 2, and 3 are overlaid on the input fields and the button respectively.

Figure 69: Pitch Owner Create Coupon Page

- Number 1: Input field for coupon code
- Number 2: Input field for coupon percentage discount
- Number 3: Button confirm create a new coupon

### 4.3.7.4.2. Manage Coupon

The screenshot shows the 'Manage Coupon' page from the PitchBooking application. The left sidebar includes links for Dashboard, Pitches, Create Brands, Manage Orders, and a 'Coupon' section with 'Create Coupon' and 'Manage Coupon' options. The main area displays a table of three coupons:

#	COUPON CODE	PERCENT	ACTIONS
1	SANCHAOLUAI	21%	<span>2</span> <span>3</span>
2	GIAMGIAI	14%	<span>2</span> <span>3</span>
3	SANCHAOLUA	20%	<span>2</span> <span>3</span>

Below the table, it says 'Show coupon 1 - 3 of 3'. A red number '4' is overlaid on the right side of the page.

Figure 70: Pitch Owner Manage Coupon Page

- Number 1: Input field for searching coupon by code
- Number 2: Button to update coupon information
- Number 3: Button to delete coupon
- Number 4: Pagination

### 4.3.8 My Order

Pitches	Shift	Price
 Sân Chảo Lửa I Sân 5 Người Số 30 đường Phan Thúc Duyện, Phường 4, Tân Bình	7 AM - 8 AM	300,000 VND
 Sân Chảo Lửa I Sân 5 Người Số 30 đường Phan Thúc Duyện, Phường 4, Tân Bình	6 AM - 7 AM	300,000 VND
 Sân Chảo Lửa I Sân 5 Người Số 30 đường Phan Thúc Duyện, Phường 4, Tân Bình	8 AM - 9 AM	300,000 VND
		Subtotal: 900,000 VND
		Total: 900,000 VND
taxes and discount calculated at check out form		
<a href="#">Book Other</a>		<a href="#">Check Out</a>
		

Figure 71: User Order Page

- Number 1: Button to navigate to home page to continue booking
- Number 2: Button to navigate to checkout page

### 4.3.9 Check Out

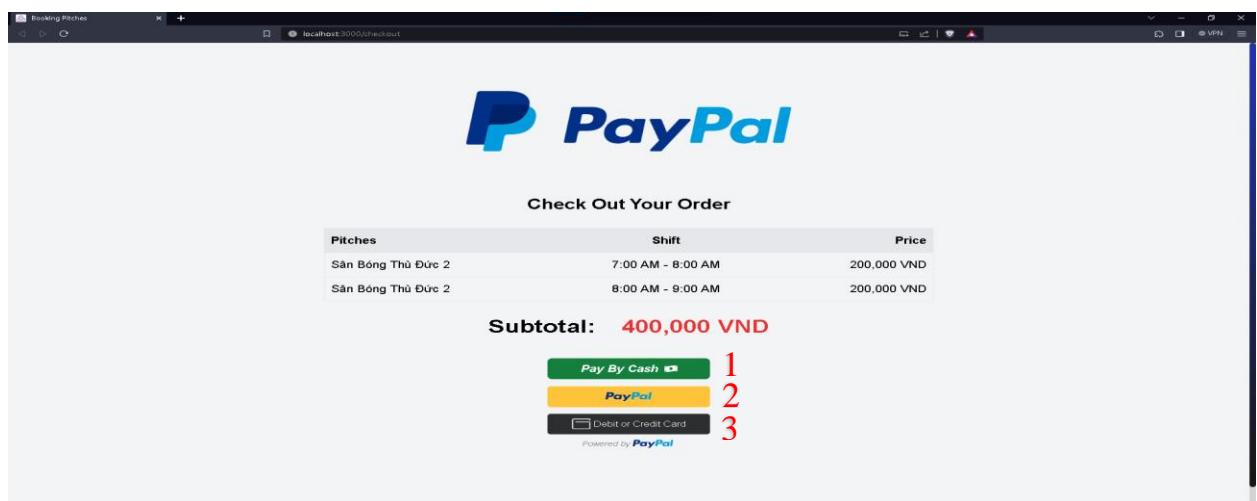


Figure 72: User Check Out Page

- Number 1: Button to pay by cash
- Number 2: Button to pay through PayPal
- Number 3 Button to pay with Debit or Credit Card

### 4.3.10 News Page



Figure 73: List Of News

- Number 1: News Thumbnail slider
- Number 2: List news of the day
- Number 3 Sort news
- Number 4: News post
- Number 5: Navigate to news post detail

## CHAPTER 5: IMPLEMENTATION AND TESTING

### 5.1. TOOLS IN PROJECT

These are technologies and tools that we used to build the project:

- Web app front-end: ReactJS, HTML, tailwindCSS.
- Back-end: NodeJS, ExpressJS.
- DBMS: MongoDB.
- IDE: Visual Studio.
- Version control system: GitHub.
- Browser: Google Chrome, Microsoft Edge.
- Operating System: Windows 10.

### 5.2. TEST PLAN

#### 5.2.1. Test Plan

In this project, we use white box testing method to test main functions of the application. The biggest advantage of white box testing is that the testing can begin at an earlier stage and it provide a thorough and detailed assessment of the software's internal workings. The function will be tested are:

- Sign In
- Sign Up
- Sign Out
- Recover password
- Filter pitches
- Search pitches
- View detail's pitches
- Booking pitches

- View Booking history
- Rating
- View personal information
- Update personal information
- View booking order
- Add pitches
- Delete pitches
- Update pitches
- Delete user
- Update user's information
- Add category
- Delete category
- Update category

### 5.2.2. Test Result

ID	Description	Step	Expected Result	Actual Result	Status
TC_01	Test the Sign In function	-Select “Sign in or Create Account” button in homepage -Sign In with registered account	Sign in success and move to homepage	As expected	Pass
TC_02	Test the Sign Up function	-Select “Sign in or Create Account” button in homepage - Select Sign Up	Sign Up success and move to login page	As expected	Pass

		<ul style="list-style-type: none"> <li>- Input required field with validated information</li> <li>- Click Sign Up and enter the code has been seen to your email</li> </ul>			
TC_03	Test the Sign Out function	<ul style="list-style-type: none"> <li>-Select “Sign Out” icon in the homepage</li> </ul>	Sign out success	As expected	Pass
TC_04	Test the Recover password function	<ul style="list-style-type: none"> <li>- Select “Sign in or Create Account” button in homepage</li> <li>-Select forgot password and enter your email</li> <li>- Enter the link has been sent to your email and reset the password</li> </ul>	Recover password success and move to login page	As expected	Pass
TC_05	Test the Filter pitches function	<ul style="list-style-type: none"> <li>-Select “PITCHES” on the navigation.</li> <li>- Choose filter by price, address.</li> </ul>	Show pitches filter by price and address.	As expected	Pass
TC_06	Test the Search pitches function	<ul style="list-style-type: none"> <li>-Select “PITCHES” on the navigation.</li> <li>-Enter pitch’s name at search bar</li> </ul>	Show pitches which name contain character in search bar will be listed out	As expected	Pass

TC_07	Test the View detail's pitches function	-Select to one pitch in the page	Move to pitch's detailed of that selected pitch. The page contains: pitch's image, pitch's name, description, price and location	As expected	Pass
TC_08	Test the Booking pitches function	-Select to one pitch in the page - Choose date and shift then select “Booking” button	The pitch was book will go to the order page	As expected	Pass
TC_09	Test the View Booking history	- Select “Profile” in the header - Select Booking history	The pitches, time, money which was booked will be showed	As expected	Pass
TC_10	Test the Rating function	- Select to one pitch in the page - Choose “Rating now!” “Button” - Input comment and star	-System show the comment and star user has just input	As expected	Pass
TC_11	Test the View personal	- Select “Profile” in the header - Select “Personal” - Select Personal in new tab	-System show the user's information	As expected	Pass

	information function				
TC_12	Test the Update personal information	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Personal”</li> <li>- Select Personal in new tab</li> <li>- Input the information and select Update information</li> </ul>	System shows update success	As expected	Pass
TC_13	Test the View booking order function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Manage Order in new tab</li> </ul>	System shows order of the user	As expected	Pass
TC_14	Test the Add pitches function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Pitches, Create Pitch in new tab</li> <li>- Input the information of the pitch</li> <li>- Select “Add new pitch” button</li> </ul>	Add success the new pitch to system	As expected	Pass
TC_15	Test the Delete	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> </ul>	Delete success the new pitch to system	As expected	Pass

	pitches function	<ul style="list-style-type: none"> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Pitches, Manage Pitch in new tab</li> <li>- Choose delete icon</li> </ul>			
TC_16	Test the Edit pitches function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Pitches, Manage Pitch in new tab</li> <li>- Choose edit icon</li> <li>- Input the information of the pitch to change</li> <li>- Select “Update pitches” button</li> </ul>	Update success the pitch.	As expected	Pass
TC_17	Test the Delete user function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Manage User in new tab</li> <li>- Choose delete icon</li> </ul>	Delete success the user.	As expected	Pass
TC_18	Test the Update user's	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> </ul>	Update success the user.	As expected	Pass

	information function	<ul style="list-style-type: none"> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Manage User in new tab</li> <li>- Choose edit icon</li> <li>- Input the information of the user to change</li> <li>-Select “Update user” icon</li> </ul>			
TC_19	Test the Add category function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Category, Create Category in new tab</li> <li>- Input the information of the category</li> <li>- Select “Create new category button”</li> </ul>	Add success the new category to system	As expected	Pass
TC_20	Test the Delete category function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace,PitchOwner”</li> <li>- Select Category, Manage Category in new tab</li> <li>- Choose delete icon</li> </ul>	Delete success the category.. .	As expected	Pass

TC_21	Test the Update category function	<ul style="list-style-type: none"> <li>- Select “Profile” in the header</li> <li>- Select “Admin Workspace, PitchOwner”</li> <li>- Select Category, Manage Category in new tab</li> <li>- Input the information of the category to change</li> <li>-Select “Update category” icon</li> </ul>	Update success the category.	As expected	Pass
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Table 28: Test result

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## CHAPTER 6: CONCLUSIONS

### 6.1. RESULT

- Through this project, understand how to operate and build a website through the use of React JS Framework in terms of front-end.
- In terms of back-end, understand how the website's API system works and deploys it through the use of Express JS, which is a framework of Node JS.
- Ensure that the main functions of a booking filed website are always operational, so that they can be delivered to users.
- In addition, we have developed additional features: new Map (because Google Map has been blocked in Vietnam), notification function, improved multi-user interface (responsive), fixed logic problems in set price (price) and add discount code function, Zalo Payment.

### 6.2. LIMITATIONS

- Haven't researched in-depth about application safety and security issues.
- The product suggestion system through AI has not been integrated, a quite important function of an e-commerce website.

### 6.3. FUTURE WORK

- Apply AI for recommend pitch
- Improve website performance
- Improve safety and security issues
- You can find the solution by following this link:  
<https://github.com/SonDanh2501/CAPSTONEPROJECT>

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