

**CAPSTONE PROJECT REPORT**

**Report 3 – Software Requirement Specification**

– HoChiMinh, September 2020 –

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# I. Project Report

## 1. Status Report

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Work Item** | **Status** | **Notes (Work Item in Details)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

## 2. Team Involvements

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Task** | **Member** | **Notes (Task Details, etc.)** |
| 1 |  | Thaott |  |
| 2 |  | Datbc |  |
| 3 |  | Kiendst |  |
| 4 |  | Mytn |  |

## 3. Issues/Suggestions

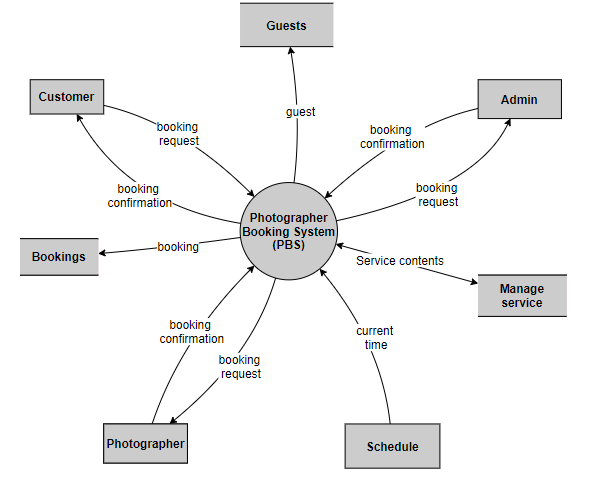
|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Issue** | **Status** | **Notes (Solution, Suggestion, etc.)** |
| 1 |  | Pending |  |
| 2 |  | In Progress |  |
| 3 |  | Completed |  |

# II. Software Requirement Specification

## 1. Overall Description

### 1.1 Product Overview

Hệ thống đặt thợ chụp ảnh là một hệ thống mới hô trợ khách hàng tìm kiếm nhanh chóng thợ chụp ảnh. Sơ đồ ngữ cảnh bên dưới mô tả các thực thể bên ngoài và giao diện của hệ thống phiên bản 1.0. Hệ thống sẽ dự kiến phát triển trong khu vực thành phố kết nối với các thợ chụp ảnh và studio.

***Figure 1 - Context Diagram***

### 1.2 Business Rules

|  |  |
| --- | --- |
| **ID** | **Rule Definition** |
| BR-01 | Chỉ có thợ chụp ảnh được chỉnh sửa và thêm dịch vụ chụp hình. |
| BR-02 | Thợ chụp ảnh phải cập nhật trạng thái yêu cầu của khách hàng. |
| BR-03 | Khách hàng chỉ được đặt thợ trước trong vòng 3 tháng trở lại. |
| BR-04 | Lịch được hiển thị ở trang thông tin của thợ chụp ảnh khách hàng chỉ được xem. |
| BR-05 | Khách hàng đã đánh giá thì không có quyền xóa bình luận đó. |
| BR-06 | Sau khi đặt lịch khách hàng có quyền sửa đổi thông tin trước khi thợ chụp ảnh xác nhận. |
| BR-07 | Khách hàng được phép hủy yêu cầu trong tất cả các trạng thái. |
| BR-08 | Khách hàng nếu hủy yêu cầu từ trạng thái “sắp diễn ra” phải nêu lý do và chờ photographer xác nhận |
| BR-09 | Sử dụng tài khoản của khách hàng thì không được đăng nhập app của photographer và ngược lại. |
| BR-10 | Khách hàng khi đăng ký tài khoản với vai trò nào thì sẽ mở app tương ứng. |
| BR-11 | Thời gian nhận khách hàng không thể chọn ngày trong quá khứ. |
| BR-12 | Thợ chụp ảnh có quyền chọn ngày nghỉ của mình và nó sẽ được cập nhật trên trang cá nhân của họ. |
| BR-13 | Thợ chụp ảnh không được phép viết bình luận và bình chọn sao cho mình. |
| BR-14 | Thợ chụp ảnh không được phép xóa bình luận của khách hàng. |
| BR-15 | Chỉ có thợ chụp ảnh mới được chỉnh sửa dịch vụ của mình. |
| BR-16 | Chỉ có thợ chụp ảnh mới được xóa dịch vụ của mình. |
| BR-17 | Chỉ có thợ chụp ảnh mới được thêm album của mình. |
| BR-18 | Chỉ có thợ chụp ảnh mới được chỉnh sửa album của mình. |
| BR-19 | Chỉ có thợ chụp ảnh mới được xóa album của mình. |
| BR-20 | Khách hàng đã xác thực được phép chỉnh sửa thông tin cá nhân nếu có thay đổi. |
| BR-21 | Khách hàng đã xác thực được phép thay đổi mật khẩu |
| BR-22 | The admin only locks users when they violate business rules. |
| BR-23 | Quản trị viên không được phép viết bình luận và bình chọn sao cho photographer. |
| BR-24 | Quản trị viên không được phép xóa bình luận của photographer |
| BR-25 | Only the admin can add a shooting category. |
| BR-26 | Only the admin can edit the shooting category. |
| BR-27 | Only the admin can remove the shooting category. |

***Table 1 - Business rules***

## 2. User Requirements

### 2.1 Overview

#### a. Use Case Diagram

***Figure 2 - Use Case Diagram***

#### b. System Actors

|  |  |  |
| --- | --- | --- |
| **#** | **Actor** | **Description** |
| 1 | Administrator | Là người sẽ quản lý toàn hệ thống. |
| 2 | Photographer | Là người sẽ nhận được yêu cầu của khách hàng và sẽ nhận được đánh giá của khách hàng. Thợ chụp ảnh sẽ xác nhận yêu cầu được gửi đến, thông báo khi đến ngày chụp, ngày trả ảnh. Họ sẽ cũng cấp các dịch vụ , hình ảnh cho hệ thống. |
| 3 | Customer | Là người sẽ tìm kiếm thợ chụp ảnh và gửi yêu cầu đến cho thợ. Sẽ nhận được thông báo khi photographer xác nhận yêu cầu, đến ngày chụp, ngày trả ảnh.. Họ sẽ đánh giá chất lượng của thợ chụp ảnh sau khi hoàn thành yêu cầu. |
| 4 | Guest | Là người sẽ đăng kí tài khoản vào hệ thống và sẽ nhận được phản hồi từ hệ thống. |

***Table 2 - System Actors***

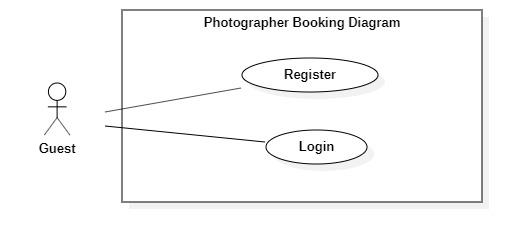
#### c. Use Cases List

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Use Case** | **Primary Actors** | **Secondary Actors** |
| 01 | Register | Guest |  |
| 02 | Login | Guest |  |
| 03 | Search photographer | Customer |  |
| 04 | Get photographer’s detail | Customer |  |
| 05 | Book Photographer | Customer |  |
| 06 | Review photographer | Customer |  |
| 07 | Get booking  (cancel, edit, accept, decline) | Customer, Photographer |  |
| 08 | Edit working calendar | Photographer |  |
| 09 | Get customer’s review | Photographer , Admin |  |
| 10 | Manage service  (Add , Edit, Remove) | Photographer |  |
| 11 | Manage album  (add , edit, remove) | Photographer |  |
| 12 | Manage user  (get user’s activity, unlock user, lock user) | Admin |  |
| 13 | Manage shooting category  (add, edit, remove) | Admin |  |
| 14 | Get profile  (edit profile) | Authenticated User |  |
| 15 | Logout | Authenticated User |  |
| 16 | Change password | Authenticated User |  |

***Table 3 - Use Case List***

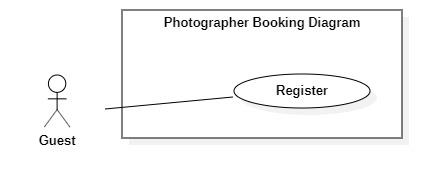
### 2.2 List of use case

#### a. <Guest > Overview use case



***Figure 3 - <Guest> Overview Use Case***

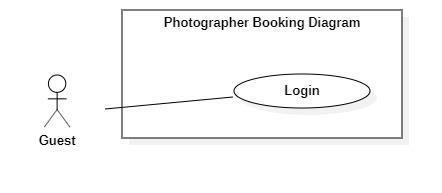
1. ***<Guest> Register***



***Figure 4 - <Guest> Register***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-01 Register** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Guest | Secondary Actors: |  |
| Trigger: | The Guest taps “Đăng ký” on “Đăng nhập” screen | | |
| Description: | The guest wants to register an account. | | |
| Preconditions: | - Guests launch mobile applications.  - Guest is at the “Đăng nhập” screen.  - Guests have connected to the Internet. | | |
| Post-conditions: | Success: The guest registers an account as a customer or photographer. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The Guest taps “Đăng kí” on “Đăng nhập” screen. | The system shows a “Thông tin đăng ký” screen with the following inputs.  -“Họ và tên”: text input, required.  - “ Tên đăng nhập”: text input, required  - “Mật khẩu” : password input , required.  -“Xác nhận mật khẩu”: password input , required.  -“Số điện thoại”: phone number input.  - “Email”: text input, required. | | 2 | The guest taps the “Đăng kí” button. | - The system validates inputted data [Exception 1,2,3,4,5,6].  - The system shows the “Đăng nhập” screen. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | - “Họ và tên” is empty  - “Tên đăng nhập” is empty  - “Mật khẩu” is empty  - “Xác nhận mật khẩu” is empty.  - “Số điện thoại” is empty  - “Email” is empty | System shows an error message: “Thông tin này là bắt buộc” | | 2 | Password and Confirm password is not matched. | System shows an error message: “Mật khẩu nhập lại không khớp”. | | 3 | Register successfully | System shows an error message: “Đăng ký thành công”. | | 4 | “Email” Is invalid | System shows an error message:  “Email mail này không hợp lệ. Vui lòng nhập email khác.” | | 5 | - “Tên đăng nhập” not enough character.  - “Mật khẩu” not enough character. | System shows an error message:  “Bạn vui lòng nhập đủ 8 – 16 kí tự.” | | 6 | “Tên đăng nhập” is exist. | System shows an error message:  “Tên đăng nhập của bạn đã có người sử dụng. Vui lòng nhập tên khác.” | | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | BR-09 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 4 - <Guest> Register use case specification***

1. ***<Guest> Login***

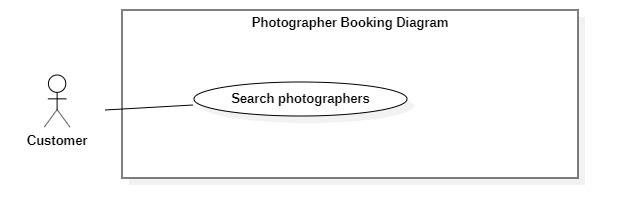
***Figure 5 - <Guest> Login***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-02 Login** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Guest | Secondary Actors: |  |
| Trigger: | The Guest taps “Đăng nhập” on “Đăng nhập” screen | | |
| Description: | The guest wants to login to the system. | | |
| Preconditions: | - Guests launch mobile applications.  - Guest is at the “Đăng nhập” screen.  - Guests have connected to the Internet. | | |
| Post-conditions: | Success: The guest login to the system as a role customer or photographer. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The Guest opened a mobile app. | “Đăng nhập” screen is show with the following inputs:  - “ Tên đăng nhập”: text input, required  - “Mật khẩu” : password input , required.  - “Đăng nhập” : button | | 2 | The guest inputs the name and password and taps the “Đăng nhập” button. | - The system validates inputted data [Exception 1,2]  - The system shows the main screen. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | - “Tên đăng nhập” is empty  - “Mật khẩu” is empty | System shows an error message : “Thông tin này là bắt buộc” | | 2 | Name and Password is incorrect. | System shows an error message : “Thông tin đăng nhập không chính xác”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | BR-08 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 5 - <Guest> Login use case specification***

#### b. <Customer> Overview use case

***Figure 6 - <Customer> Overview use case***

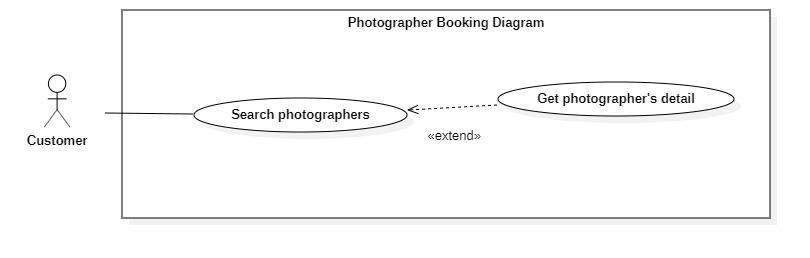
1. ***<Customer> Search Photographer***

***Figure 7 - <Customer> Search Photographer***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-03 Search photographer** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer sends request to find photographers | | |
| Description: | The customer needs to find photographers. | | |
| Preconditions: | - The customer has been authenticated.  - The customer has accessed the Internet. | | |
| Post-conditions: | Success: A list of photographers is shown.  Fail: System shows error messages. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer input name photographer or service name after clicking the search icon button. | - The system validates inputted data.  - The system shows a list photographer or service name. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | N/A | | |
| Other Information: | The customer can view a list of available photographers and categories of the main screen. | | |
| Assumptions: |  | | |

***Table 6 - <Customer> Search photographer use case specification***

1. ***<Customer> Get photographer’s detail***

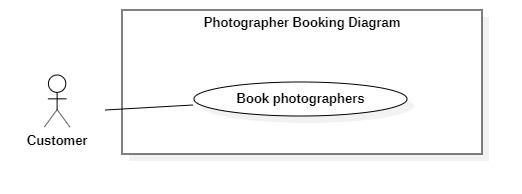
******

***Figure 8 - <Customer> Get photographer's Detail***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-04 Get photographer’s detail** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer taps the photographer or photographer icon. | | |
| Description: | The customer needs to view the profile of the photographer. | | |
| Preconditions: | - The customer has been authenticated.  - The customer has opened location service.  - The customer has accessed the Internet.  - The customer is at the “Danh sách photographer” screen. | | |
| Post-conditions: | Success: The system showed the photographer’s page. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer taps on the photographer on the result of a list photographer search or photographer view main screen. | The system shows the photographer profile screen with the following information:  - “Mô tả”: introduction or a brief description.  - “Đánh giá” number of people and number of stars: number of bookings.  - “Các album”: album photo of photographer.  - “Nhận xét”: list of feedbacks.  - “Lịch của photographer”: schedule of photographer.  - “Chọn gói dịch vụ bạn muốn”: list of service of photographer, choose option, required.  - “tiếp tục”: button | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-04 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 7 - <Customer> Get photographer's detail use case specification***

1. ***<Customer> Book photographer***

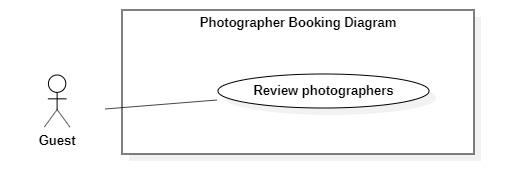


***Figure 9 - <Customer> Book photographer***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-05 Book photographer** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer taps the “Tiếp tục” button. | | |
| Description: | The customer can book a photographer . | | |
| Preconditions: | - The customer has been authenticated.  - The customer has selected a photographer and viewed their profile photographer.  - The customer has accessed the Internet. | | |
| Post-conditions: | Success: The system sends requests to the photographer. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer taps “Tiếp tục” button after click choose “Chọn gói dịch vụ bạn muốn”. | The system shows the “Đặt lịch với photographer” screen. The customer input following:  - “Photographer”: default.  - “Thời gian chụp”: The customer can choose date and start time.  - “Thời gian nhận”: choose date.  - “Địa điểm”: input text, required.  - “Gói dịch vụ”: the customer can change.  - “Tổng cộng”: price.  - “Đặt dịch vụ”: button | | 2 | The customer taps “Đặt dịch vụ” button | - The system validates inputted data  - The system creates a new request and notifies the chosen photographer.[Exception 1,2] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The customer book photographer successfully. | System shows an error message : “Gửi yêu cầu thành công” | | 2 | The customer do not choose “Thời gian chụp”, “Thời gian nhận” and “Địa điểm”. | System shows an error message : “Bạn chưa chọn thông tin” | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-03, BR-10, BR-11 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 8 - <Customer> Book photographer use case specification***

1. ***<Customer> Review photographers***

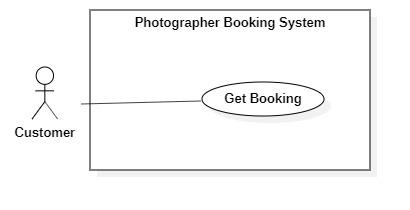


***Figure 10 - <Customer> Review photographers***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-06 Review photographers** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer taps “Đánh giá” to request a successful history. | | |
| Description: | The customer needs to write a comment and rating to the photographer service. | | |
| Preconditions: | - The customer has been authenticated.  - The customer book photographer successfully.  - The customer has accessed the Internet. | | |
| Post-conditions: | Success: The system shows comments and ratings of the customer on the photographer page. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 |  | After the request’s status is updated to “Đã hoàn thành”, “Đánh giá” button and “Bỏ qua” button is shown. | | 2 | The customer taps “Đánh giá” button | The system will go to “Nhận xét” on the photographer page. The customer input with the following:  - star icon: The customer choose star  -“Bình luận”: Text input, optional | | 3 | The customer taps “Gửi” button | - The system validates inputted data [Exception1,2]  - The system shows comments and ratings of customers. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | Input value length > max length | System shows an error message:  “Bạn vui lòng nhập đủ {50-150} ký tự.” | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-05 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 9 - <Customer> Review photographers use case specification***

1. ***<Customer> Get booking***

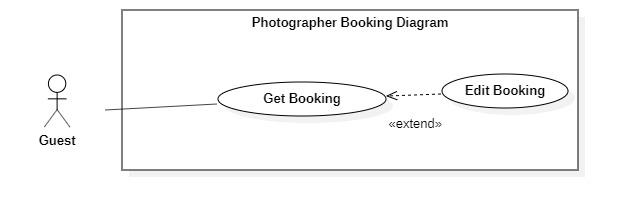


**Figure 11 - <Customer> Get booking**

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-07 Get booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: | Photographer |
| Trigger: | The customer navigates to the “Hoat động” screen. | | |
| Description: | The customer can view all requests of theirs. | | |
| Preconditions: | - The customer has been authenticated.  - The customer has accessed the Internet.  - The customer book photographer. | | |
| Post-conditions: | Success: The customer can view request history. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The customer navigates to the “Hoạt động” screen. | The system shows a list of requests the customer has made. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Low | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

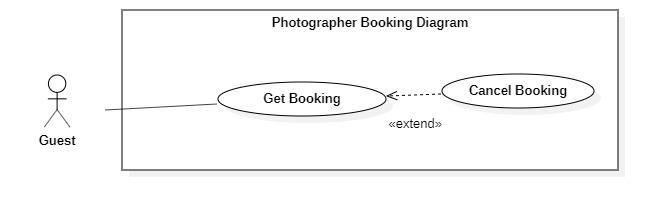
***Table 10 - <Customer> Get booking use case specification***

1. ***<Customer> Edit Booking***

***Figure 12 - <Customer> Edit booking***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-08 Edit booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer taps on “Thay đổi” button in the request “Chờ xác nhận”. | | |
| Description: | The customer needs to change information on request. | | |
| Preconditions: | - The customer has been authenticated.  - The customer has accessed the Internet.  - The status of request is “Chờ xác nhận”. | | |
| Post-conditions: | Success: The customer changes a request successfully and the system sends a request to the photographer. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer taps “Chờ xác nhận” request. | The system shows the “Thông tin hoạt động” screen:  -“Trạng thái, thời gian & địa điểm” to include: “Trạng thái”, “Thời gian”, “Thời gian tác nghiệp dự kiến”, “Thời gian nhận ảnh”, “Địa điểm”.  - “Thông tin photographer”: name photographer and rating.  - “Thông tin gói dịch vụ” to include: “tên gói”, “Mô tả”, “Bao gồm các dịch vụ”, “Tổng cộng”  - “Thay đổi”: button  - “Hủy”: button | | 2 | The customer taps “Thay đổi” button on the item. | The system shows the “Thông tin đặt lịch” screen. The customer input following:  - “Photographer”: default.  - “Thời gian chụp”: The customer can choose date and start time.  - “Thời gian nhận”: choose date.  - “Địa điểm”: input text, required.  - “Gói dịch vụ”: the customer can change.  - “Tổng cộng”: price.  - “Xác nhận”: button  - “Hủy”: button | | 3 | The customer taps the “Xác nhận” button. | - The system validates inputted data [Exception 2]  - The system creates a new request and notifies the chosen photographer.[Exception 1] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The customer book photographer successfully. | System shows an error message : “Gửi yêu cầu thành công” | | 2 | The customer do not choose “Thời gian” and “Địa điểm”. | System shows an error message : “Bạn chưa chọn thông tin” | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-03, BR-06, BR-11 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 11- <Customer> Edit booking use case specification***

1. ***<Customer> Cancel booking***

***Figure 13 - <Customer> Cancel booking***

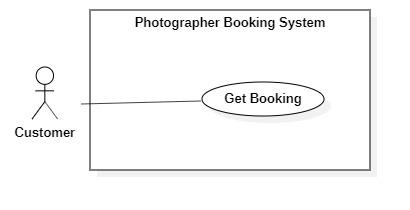
|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-09 Cancel booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Customer | Secondary Actors: |  |
| Trigger: | The customer taps “Hủy” button on the booking detail. | | |
| Description: | The customer needs to cancel their booking . | | |
| Preconditions: | - The customer has been authenticated.  - The customer has accessed the Internet.  - The status of request is “Chờ xác nhận”. | | |
| Post-conditions: | Success: the customer cancels booking successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer taps “Chờ xác nhận” request. | The system shows the “Thông tin hoạt động” screen:  -“Trạng thái, thời gian & địa điểm” to include: “Trạng thái”, “Thời gian”, “Thời gian tác nghiệp dự kiến”, “Thời gian nhận ảnh”, “Địa điểm”.  - “Thông tin photographer”: name photographer and rating.  - “Thông tin gói dịch vụ” to include: “tên gói”, “Mô tả”, “Bao gồm các dịch vụ”, “Tổng cộng”  - “Thay đổi”: button  - “Hủy”: button | | 2 | The customer taps “Hủy” button. | The system shows notifies the chosen customer: [Exception 2]  - “Có”: button  - “Không”: button | | 3 | The customer taps the “Có” button. | - The system update requests the chosen photographer. | | | |
| Alternative Flows: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The customer taps the “Sắp diễn ra” request. | The system shows the “Thông tin hoạt động” screen:  -“Trạng thái, thời gian & địa điểm” to include: “Trạng thái”, “Thời gian”, “Thời gian tác nghiệp dự kiến”, “Thời gian nhận ảnh”, “Địa điểm”.  - “Thông tin photographer”: name photographer and rating.  - “Thông tin gói dịch vụ” to include: “tên gói”, “Mô tả”, “Bao gồm các dịch vụ”, “Tổng cộng”  - “Thay đổi”: button  - “Hủy”: button | | 2 | The customer taps “Hủy” button. | The system shows notifies the chosen customer: [Exception 2]  - “Có”: button  - “Không”: button | | 3 | The customer taps the “Có” button. | - The system update requests the chosen photographer. | | 4 |  | The system shows “Hủy cuộc hẹn” popup. The customer input following:  -”Hủy cuộc hẹn”: input text “Lý do hủy cuộc hẹn của bạn là gì”, required.  - “xác nhận”: button | | 5 | The customer input reason and táp “Xác nhận” button. | The system update requests the chosen photographer. | | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The customer taps “Hủy” button. | System shows an error message : “Bạn có muốn hủy lần đặt photographer này không?” | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-07, BR-08 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 12 - <Customer>Cancel booking use case specification***

#### c. <Photographer> Overview Use Case

***Figure 14 - <Photographer> Overview use case***

1. ***<Photographer> Get Booking***

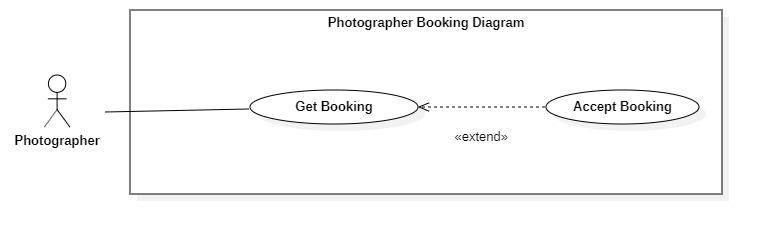


***Figure 15 - <Photographer> Get booking***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-10 Get booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | Photographers navigates to the “Trang chủ” in Photographer’s application | | |
| Description: | The photographer can view a list of their bookings including all status. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet. | | |
| Post-conditions: | Success: the system shows lists of requests on the “Lịch làm việc của tôi” screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 |  | The system shows all requests of customers to the main screen of photographer. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 13 - <Photographer>Get booking use case specification***

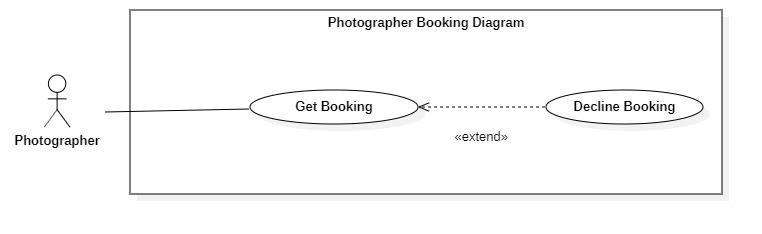
1. ***<Photographer> Accept Booking***



***Figure 16 - <Photographer> Accept Booking***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-11 Accept booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps the “Đồng ý” button. | | |
| Description: | The photographer can accept requests from the customer. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The status of request is “Chờ xác nhận”. | | |
| Post-conditions: | Success: the system change status of request is “Sắp diễn ra”. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps the “Đồng ý” button when dragging the request to the left. | - The system will change the status of request to “Sắp diễn ra”.  - The system sends notifications to the customer. [Exception 1] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The system sends notifications to the customer. | System shows an error message : “Yêu cầu của bạn đã được xác nhận” | | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | BR-02 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

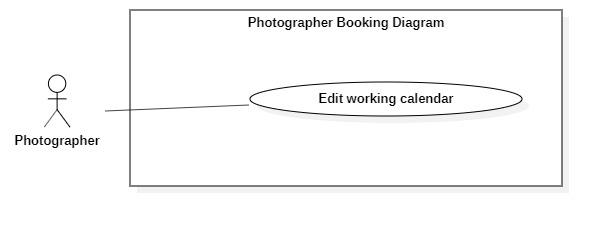
***Table 14 - <Photographer> Accept Booking use case specification***

1. ***<Photographer> Decline Booking***

***Figure 17 - <Photographer> Decline Booking***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-12 Decline booking** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps “Hủy” button. | | |
| Description: | The photographer can decline a request from the customer. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The status of request is “Chờ xác nhận”. | | |
| Post-conditions: | Success: the system sends notifications to the customer.F | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps the “Hủy” button when dragging the request to the left. | - The system sends notification to the customer. [Exception 1] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The system sends notification to the customer. | System shows an error message : “Yêu cầu của bạn đã bị từ chối” | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-02 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 15 - <Photographer> Cancel Booking Use Case Specification***

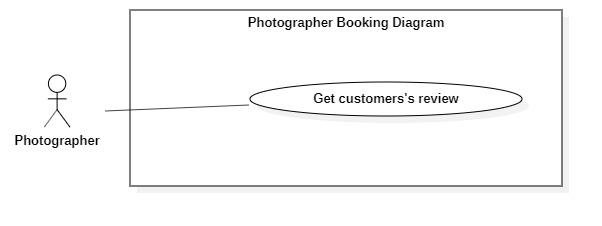
1. ***<Photographer> Edit working calendar***

***Figure 18 - <Photographer> Edit working calendar***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-13 Edit working calendar** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps the date in the calendar. | | |
| Description: | The photographer can edit the working calendar. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet. | | |
| Post-conditions: | Success: the system updates the calendar of photographers. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps day. | The system shows details of day. Photographer can view:  - A list request of customer following start time | | 2 | The photographer taps day in the future and makes an empty request. |  | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-12 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

**Table 16 - <Photographer>Edit Working Calendar Use Case Specification**

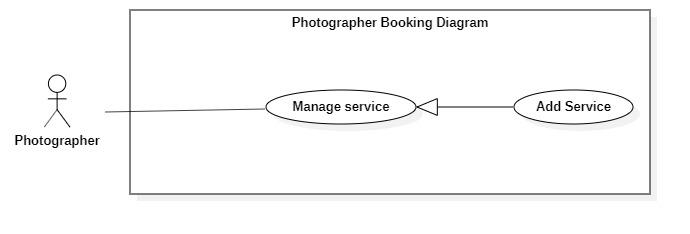
1. ***<Photographer> Get customer’s review***



***Figure 19 - <Photographer> Get customer's review***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-14 Get customer’s review** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps “Trang cá nhân” page. | | |
| Description: | The photographer can view the customer's review. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet. | | |
| Post-conditions: | Success: the system sends notifications to the customer. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The photographer taps “Trang cá nhân” page. | - The system shows the “Trang cá nhân” page of the photographer. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-13, BR-14 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

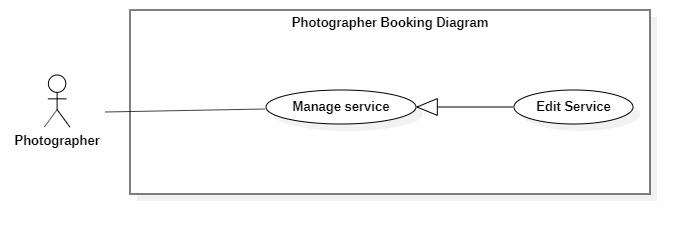
***Table 17 - <Photographer> Get Customer’s Review Use Case Specification***

1. ***<Photographer> Add service***

***Figure 20 - <Photographer> Add service***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-15 Add Service** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps add icon on the “Trang cá nhân” screen. | | |
| Description: | The photographer can add service. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet. | | |
| Post-conditions: | Success: the photographer adds service to the “Chọn gói dịch vụ bạn muốn” the detail screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The photographer taps navigates “Dịch vụ” screen and taps add icon. | The system shows list of services the photographer has added with the following information:  - “Tên dịch vụ”: input text, required.  - “Giá thành dịch vụ”: input text, required  - “Thời gian tác nghiệp”: input text, required  - “Chi tiết dịch vụ”: input text, required.  - “Thêm dịch vụ”: button | | 2 | The photographer taps “Thêm dịch vụ” button | - The system validates inputted data [Exception 1].  - The system sends notifications to the customer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | “Tên dịch vụ”, “Giá thành dịch vụ”, “Chi tiết dịch vụ” is empty | System shows an error message : “Thông tin này bắt buộc” | | 2 | Add service successfully | System shows an error message:  “Thêm dịch vụ thành công”. | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-01 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

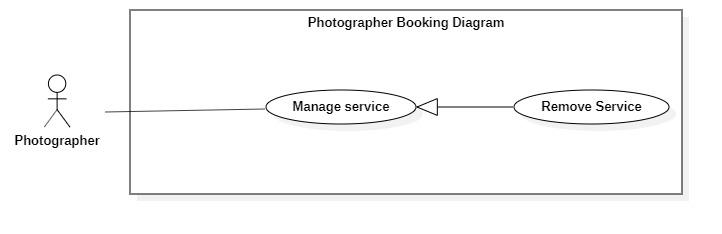
***Table 18 - <Photographer> Add Service Use case Specification***

1. ***<Photographer> Edit service***

***Figure 21 - <Photographer> Edit Service***

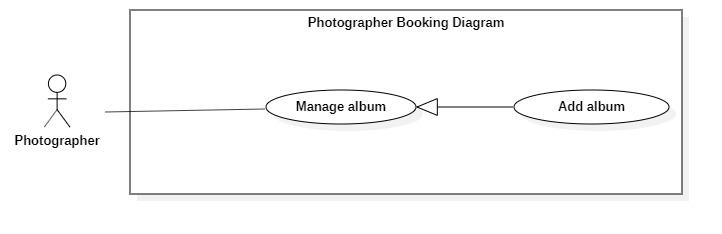
|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-16 Edit service** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps “Thay đổi” button on “Gói dịch vụ” detail page. | | |
| Description: | The photographer can edit the service available. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The service pack available. | | |
| Post-conditions: | Success: the photographer edit service successfully and update “Các gói dịch vụ bạn muốn” to the detail photographer screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps “Dịch vụ của tôi” . | The system shows list of services the photographer has view with the following information:  - “Tên dịch vụ”: input text, required.  - “Giá thành dịch vụ”: input text, required  - “Thời gian tác nghiệp”: input text, required  - “Chi tiết dịch vụ”: input text, required.  - “Chỉnh sửa”: button  - “Xóa”: button | | 2 | The photographer taps “Chỉnh sửa” button | The system shows list of services the photographer input with the following information:  - “Tên dịch vụ”: input text, required.  - “Giá thành dịch vụ”: input text, required  - “Thời gian tác nghiệp”: input text, required  - “Chi tiết dịch vụ”: input text, required.  - “Xác nhận”: button  - Hủy”: button | | 3 | The photographer taps “Xác nhận” button | - The system validates inputted data [Exception 1].  - The system sends nontifies to the customer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 2 | “Tên dịch vụ”, “Giá thành dịch vụ”, “Chi tiết dịch vụ” is empty | System shows an error message : “Thông tin này bắt buộc” | | 3 | Edit service successfully | System shows an error message:  “Thay đổi thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-15 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 19 - <Photographer>Edit service use case specification***

1. ***<Photographer> Remove Service***

***Figure 22 - <Photographer> Remove Service***

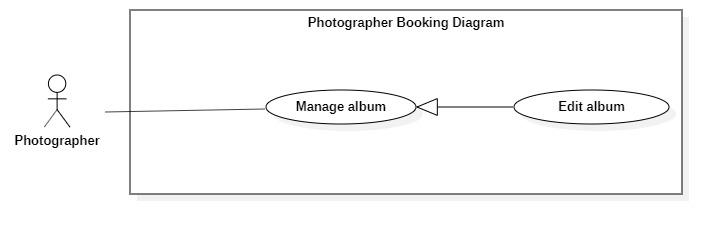
|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-16 Remove service** | | |
| Created By: | Mytn | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps “Xóa” button in the “Dịch vụ của tôi” screen. | | |
| Description: | The photographer can remove service. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The service pack available. | | |
| Post-conditions: | Success: the photographer removes service successfully and update “Các gói dịch vụ bạn muốn” on the detail screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps navigates “Dịch vụ” . | The system shows list of services the photographer has view with the following information:  - “Tên dịch vụ”: input text, required.  - “Giá thành dịch vụ”: input text, required  - “Thời gian tác nghiệp”: input text, required  - “Chi tiết dịch vụ”: input text, required.  - “Xác nhận”: button  - Hủy”: button | | 2 | The photographer taps the “Xóa” button. | The system shows notifications to the photographer. [Exception 1] | | 3 | The photographer taps “Xác nhận” button | The system sends notifications to the customer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | The photographer taps the “Xóa” button. | System shows an error message : “Bạn có muốn xóa dịch vụ này?” | | 2 | Remove service successfully | System shows an error message:  “Xóa dịch vụ thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-16 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

1. ***<Photographer>Add album***

***Figure 23 - <Photographer> Add Album***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-17 Add Album** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps the add album icon on the “Album” screen. | | |
| Description: | The photographer can add albums. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet. | | |
| Post-conditions: | Success: the photographer adds the album successfully and update “Các album của photographer” on the detail screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps the “Album” screen and taps the added album icon. | The system shows list of album available the photographer has added photo with the following information:  - “Tên album”: input text, required.  - “Hình ảnh”: choose the device.  - “Thể loại”: input text, required  - “Địa điểm chụp”: input text, required.  - “Thêm album”: button | | 2 | The photographer taps “Thêm album” button | - The system validates inputted data [Exception 1].  - The system sends notifications to the customer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | “Tên album” and “Hình ảnh”, “thể loại” is empty | System shows an error message : “Thông tin này bắt buộc” | | 2 | Add album successfully | System shows an error message:  “Thêm album thành công”. | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-17 | | |
| Other Information: | N/A | | |
| Assumptions: | . | | |

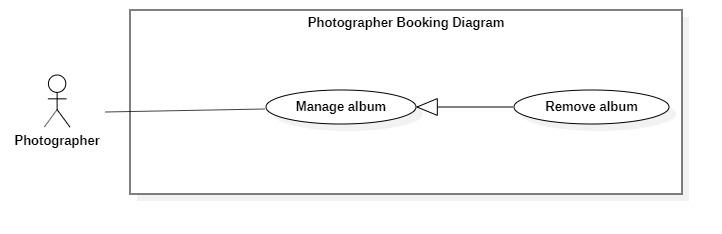
***Table 20 - <Photographer> Add album use case specification***

1. ***<Photographer> Edit album***

***Figure 24 - <Photographer> Edit Album***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-18 Edit Album** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps “Album” detail and taps “Chỉnh sửa” button. | | |
| Description: | The photographer can edit the album of their. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The album available. | | |
| Post-conditions: | Success: the photographer edited the album successfully and update “Các album của photographer” on the detail screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The photographer taps “Album”. | The system shows a list of photos available. The photographer has view photo with the following information:  - “Tên album”: input text, required.  - “Hình ảnh”: choose the device.  - “Thể loại”: input text, required  - “Địa điểm chụp”: input text, required.  - “Xóa”: button  - “Chỉnh sửa”: button | | 2 | The photographer taps “Chỉnh sửa” button. | The system shows a detailed photo screen. The photographer has edit album with the following information:  - “Tên album”: input text, required.  - “Hình ảnh”: choose the device.  - “Thể loại”: input text, required  - “Địa điểm chụp”: input text, required.  - “Xác nhận”: button  -”Hủy”: button | | 3 | The photographer taps “Xác nhận” button | - The system validates inputted data [Exception 1].  - The system sends notifications to the customer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | “Tên album” and “Hình ảnh”, “thể loại” is empty | System shows an error message : “Thông tin này bắt buộc” | | 2 | The photographer taps the “Xác nhận” button. | System shows an error message:  “Thay đổi album thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-18 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 21 - <Photographer> Edit Album Use Case Specification***

1. ***<Photographer> Remove album***

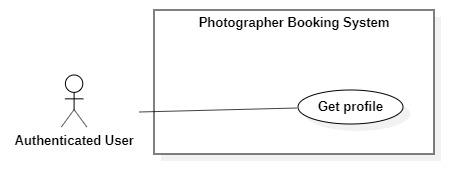
***Figure 25 - <Photographer> Remove Album***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-19 Remove Album** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Photographer | Secondary Actors: |  |
| Trigger: | The photographer taps the “Xóa” button. | | |
| Description: | The photographer can remove the album. | | |
| Preconditions: | - The photographer has been authenticated.  - The photographer has access to the Internet.  - The album available. | | |
| Post-conditions: | Success: the photographer removed the album successfully and update “Các album của photographer” on the detail screen. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The photographer taps the “Xóa” button. | The system shows notifies to the photographer.[Exception 1] | | 2 | The photographer taps the “Xác nhận” button. | The system shows notifications to the photographer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | The photographer taps the “Xóa” button. | System shows an error message : “Bạn có muốn xóa album này?” | | 2 | The photographer taps the “Xác nhận” button. | System shows an error message:  “Xóa album thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-19 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

#### d. <Authenticated User> Overview Use Case

***Figure 26 - <Authenticated User> Overview Use Case***

1. ***<Authenticated User> Get profile***

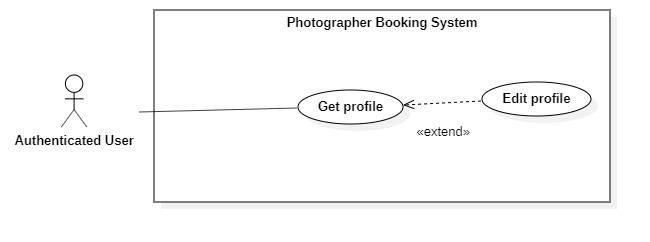


***Figure 27 - <Authenticated User> Get profile***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-20 Get profile** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Authenticated User | Secondary Actors: |  |
| Trigger: | The Authenticated User navigates to “Cài đặt” and taps the “Thông tin cá nhân” screen to view the profile. | | |
| Description: | The authenticated user can view their profile. | | |
| Preconditions: | The authenticated user has accessed the Internet. | | |
| Post-conditions: | Success: The Authenticated User can view his/her profile successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The Authenticated User navigates to the “Cài đặt” and taps the “Thông tin cá nhân” screen to view the profile. | The system shows “Thông tin cá nhân” screen with the following information:  - “Avatar”: image.  - “Họ và tên”: text input, editable  - “Địa chỉ”: text input, editable  - “Số điện thoại”: phone number input  - “Cập nhật” button | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 22 - <Authenticated User> Get profile use case specification***

1. ***<Authenticated User> Edit profile***

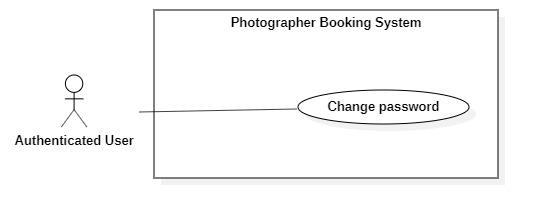
******

***Figure 28 - <Authenticated User> Edit profile***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-21 Edit profile** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Authenticated User | Secondary Actors: |  |
| Trigger: | The Authenticated User taps “Cập nhật” of “Thông tin cá nhân” screen to view profile. | | |
| Description: | The authenticated user can update their profile. | | |
| Preconditions: | The authenticated user has accessed the Internet. | | |
| Post-conditions: | Success: The Authenticated User can update his/her profile successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The Authenticated User taps the“Thông tin cá nhân” screen to view the profile. | The system shows “Thông tin cá nhân” screen and view with the following information:  - “Avatar”: image  - “Họ và tên”: text input, editable  - “Địa chỉ: text input, editable  - “Số điện thoại”: phone number input.  - “Cập nhật” button: is used to update information. | | 2 | The Authenticated User updates information and clicks “Cập nhật” to confirm | The system shows “Thông tin cá nhân” screen and view with the following information:  - “Avatar”: image  - “Họ và tên”: text input, editable  - “Địa chỉ: text input, editable  - “Số điện thoại”: phone number input.  - “Xác nhận” button  - “Hủy”: button | | 3 | The Authenticated User updates information and clicks “Xác nhận” to confirm | The system validates inputted data  The system updates the profile and shows message  [Exception 1, 2] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | “Họ và tên”, “địa chỉ”, “Số điện thoại” is empty | System shows an error message : “Thông tin này bắt buộc”. | | 2 | Update successfully | System shows an error message : “Thay đổi thông tin thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-20 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 23 - <Authenticated User> Edit profile use case specification***

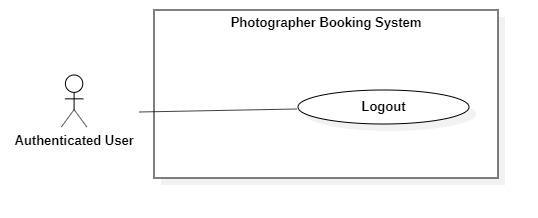
1. ***<Authenticated User> Change password***



***Figure 29 - <Authenticated User> Change password***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-22 Change password** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Authenticated User | Secondary Actors: |  |
| Trigger: | The Authenticated User navigates to “Cài đặt” screen and taps the “Thay đổi mật khẩu” to change password. | | |
| Description: | The authenticated user can change their password. | | |
| Preconditions: | The authenticated user has accessed the Internet. | | |
| Post-conditions: | Success: The Authenticated User can change password successfully and logout the system. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The Authenticated User navigates to “Cài đặt” screen and taps the “Thay đổi mật khẩu” | The system shows “Đổi mật khẩu” screen with the following inputs:  - “Mật khẩu hiện tại”: current password, password input, required  - “Mật khẩu mới”: new password, password input, required  - “Xác nhận mật khẩu mới”: confirm new password, password input, required  - “xác nhận” button.  - “Hủy”: button | | 2 | The Authenticated User inputs information and taps “Xác nhận” to confirm. | The system validates inputted data  [Exception 1, 2]  The system updates the profile and shows message  [Exception 3] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | “Mật khẩu hiện tại”, “Mật khẩu mới”, “xác nhận mật khẩu mới” is empty | System shows an error message : “Thông tin này bắt buộc”. | | 2 | New password and confirm password do not match. | System shows an error message: “Mật khẩu nhập lại chưa chính xác” | | 3 | Current password is invalid | System shows an error message: “Mật khẩu hiện tại chưa chính xác” | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-21 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

**Table 24 - <Authenticated User> Change Password Use Case specification**

1. ***<Authenticated User> Logout***

***Figure 30 - <Authenticated User> Logout***

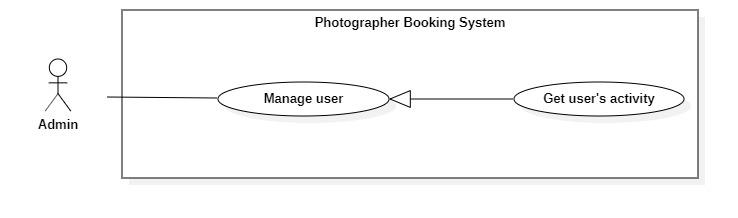
|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-23 Logout** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Authenticated User | Secondary Actors: |  |
| Trigger: | The Authenticated User navigates to “Cài đặt” screen and taps the “Đăng xuất” to log out. | | |
| Description: | The system allows the Authenticated User to log out | | |
| Preconditions: | The authenticated user has accessed the Internet. | | |
| Post-conditions: | Success: The Authenticated User can log out successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The Authenticated User navigates to “Cài đặt” screen to log out | The system deletes the login session and navigates the back to “Đăng nhập” screen. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 25 - <Authenticated User> Logout use case specification***

#### e. <Admin> Overview Use Case

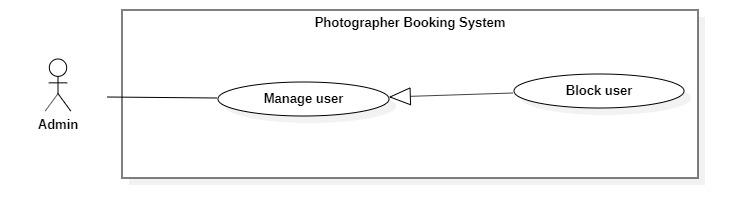
***Figure 31 - <Admin> Overview Use Case***

1. ***<Admin> Get user’s activity***

***Figure 32 - <Admin> Get user's activity***

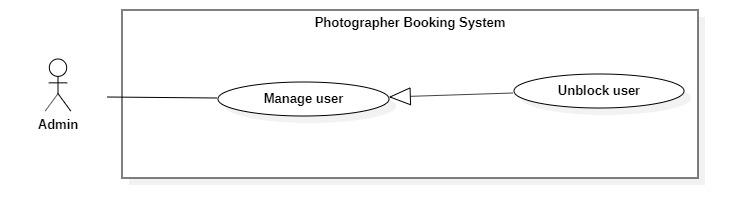
|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-24 Get user’s activity** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin taps navigates “Hoạt động” screen. | | |
| Description: | The admin can view a list of the user's activity. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website. | | |
| Post-conditions: | Success: The admin can view a table and a list of the user's activity successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The admin taps navigates “Hoạt động” screen. | The system showed a table a list of the user's activity. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Always | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 26 - <Admin> Get user's activity use case specification***

1. ***<Admin> Block user***

***Figure 33 - <Admin> Block user***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-25 Block user** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin tabs “Khóa” button on the “Danh sách người dùng” screen. | | |
| Description: | The admin can block users if the user violates business rules. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website. | | |
| Post-conditions: | Success: The admin can block users successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The admin tabs “Khóa” button on the “Danh sách người dùng” screen. | The system shows notifications to the admin. [Exception 1]. | | 2 | The admin taps the “Xác nhận” button. | The system shows notifications to the admin. [Exception 2] | | 3 |  | The system sends notifications to the user. [Exception 3]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The system shows notifications to the admin. | System shows an error message : “Bạn có muốn khóa người dùng này?”. | | 2 | The admin taps the “Xác nhận” button. | System shows an error message : “Người dùng đã được khóa thành công”. | | 3 | The system sends notifications to the user. | System shows an error message : “Tài khoản của bạn đã bị vi phạm. Vui lòng liên hệ với quản trị viên”. | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-22 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

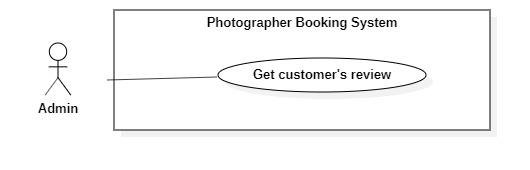
1. ***<Admin> Unblock user***

***Figure 34 - <Admin> Unblock user***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-26 Unblock user** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin tabs “Mở khóa” button on the “Danh sách người dùng” screen. | | |
| Description: | The admin can unblock users . | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website.  - The user locked. | | |
| Post-conditions: | Success: The admin can unblock users successfully. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The admin tabs “Mở khóa” button on the “Danh sách người dùng” screen. | The system shows notifications to the admin. [Exception 1] | | 2 | The admin taps the “Xác nhận” button. | The system shows notifications to the admin. [Exception 3] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | The system shows notifications to the admin. | System shows an error message : “Bạn có muốn mở khóa người dùng này?”. | | 2 | The admin taps the “Xác nhận” button. | System shows an error message : “Người dùng đã được mở khóa thành công”. | | | |
| Priority: | High | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | N/A | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 27 - <Admin> Unblock user use case specification***

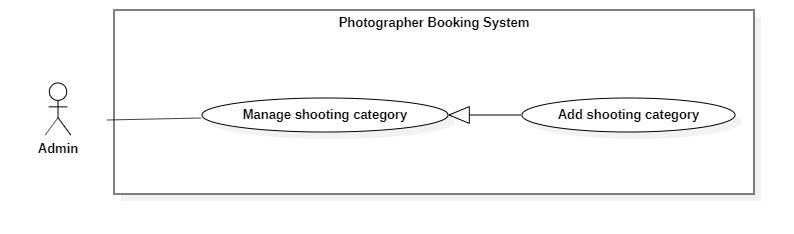
1. ***<Admin> Get customer’s review***

******

***Figure 35 - <Admin> Get customer's review***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-27 Get customer’s review** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin taps the “Trang cá nhân” page of the photographer. | | |
| Description: | The admin can view customer’s review. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website. | | |
| Post-conditions: | Success: the admin views the customer’s review. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The admin taps “Trang cá nhân” page. | - The system shows the “Trang cá nhân” page of the photographer. [Exception 1] | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | N/A | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-23, BR-24 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 28 - <Admin> Get customer's review use case specification***

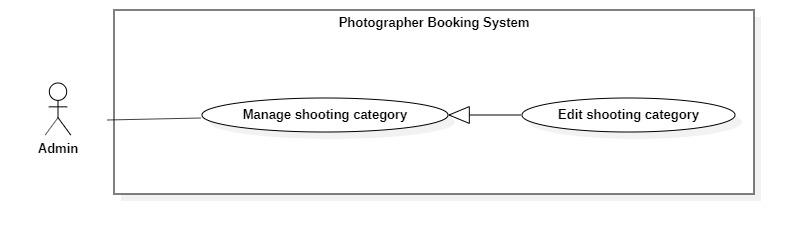
1. ***<Admin> Add shooting category***

***Figure 36 - <Admin> Add shooting category***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-28 Add shooting category** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin taps “Thêm thể loại” button. | | |
| Description: | The admin can add a shooting category. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website. | | |
| Post-conditions: | Success: The admin can add shooting successfully and update “Trang chủ” of customer’s application. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The admin taps “Thêm thể loại” button. | The system shown “Thêm thể loại chụp ảnh” page. The admin input following:  - “Tên thể loại”: input text, required.  - “Xác nhận” : button.  - “Hủy”: button | | 2 | The photographer taps the “Xác nhận” button. | - The system validates inputted data  [Exception 1, 2]  - The system shows notifications to the photographer. [Exception 3]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | “Tên thể loại” is empty | System shows an error message : “Thông tin này bắt buộc” | | 2 | “Tên thể loại” is duplicate | System shows an error message : “Thể loại này đã tồn tại” | | 3 | The photographer taps the “Xác nhận” button. | System shows an error message:  “Thêm thể loại thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-25 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 29 - <Admin> Add shooting category use case specification***

1. ***<Admin> Edit shooting category***

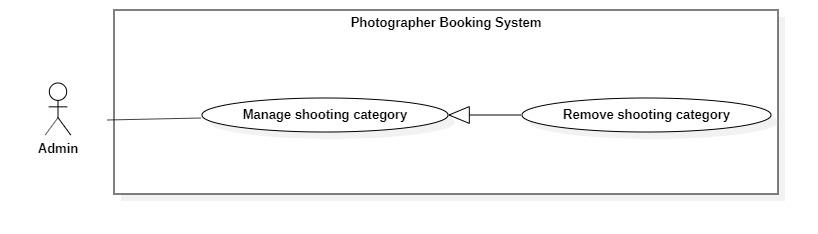


***Figure 37 - <Admin> Edit shooting category***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-29 Edit shooting category** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin tabs “Chỉnh sửa” button on the “Thể loại” detail screen. | | |
| Description: | The admin can edit the shooting category. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website.  - The category available. | | |
| Post-conditions: | Success: The admin can edit shooting successfully and update “Trang chủ” of customer’s application. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | **Step** | **Actor Action** | **System Response** | | 1 | The admin taps “Thể loại” to the view detail . | The system showed a list of category page.  - “Tên thể loại”: text  - “Xóa”: button  - “Chỉnh sửa” : button. | | 2 | The photographer taps the “Cập nhật” button. | The system shown “Thể loại” detail screen. The admin input following:  - “Tên thể loại”: input text, required.  - “Xác nhận” : button. | | 3 | The photographer taps the “Xác nhận” button. | - The system validates inputted data  [Exception 1, 2]  - The system shows notifications to the photographer. [Exception 3]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | **No** | **Actor Action** | **System Response** | | 1 | “Tên thể loại” is empty | System shows an error message : “Thông tin này bắt buộc” | | 2 | “Tên thể loại” is duplicate | System shows an error message : “Thể loại này đã tồn tại” | | 3 | The photographer taps the “Xác nhận” button. | System shows an error message:  “Thay đổi thể loại thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-26 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

***Table 30 - <Admin> Edit shooting category use case specification***

1. ***<Admin> Remove shooting category***

***Figure 38 - <Admin> Remove shooting category***

|  |  |  |  |
| --- | --- | --- | --- |
| UC ID and Name: | **PBS-UC-29 Edit shooting category** | | |
| Created By: | Truong Ngoc My | Date Created: | 08/10/2020 |
| Primary Actor: | Admin | Secondary Actors: |  |
| Trigger: | The admin tabs “Xóa” button on the “Danh sách thể loại” screen. | | |
| Description: | The admin can remove the shooting category. | | |
| Preconditions: | - User must be an Admin.  - User has logged into the website.  - The category available. | | |
| Post-conditions: | Success: The admin can remove shooting successfully and update “Trang chủ” of customer’s application. | | |
| Normal Flow: | |  |  |  | | --- | --- | --- | | Step | Actor Action | System Response | | 1 | The admin taps “Thể loại” to the view detail . | The system showed a list of category pages.  - “Tên thể loại”: text  - “Xóa”: button  - “Chỉnh sửa” : button. | | 2 | The admin taps “Xóa” button | The system shows notifications to the photographer. [Exception 1] | | 3 | The photographer taps the “Xác nhận” button. | - The system shows notifications to the photographer. [Exception 2]. | | | |
| Alternative Flows: | N/A | | |
| Exceptions: | |  |  |  | | --- | --- | --- | | No | Actor Action | System Response | | 1 | The admin taps remove the category icon. | System shows an error message : “Bạn có muốn xóa thể loại này ra khỏi thư mục?” | | 2 | The photographer taps the “Xác nhận” button. | System shows an error message:  “Xóa thể loại thành công”. | | | |
| Priority: | Medium | | |
| Frequency of Use: | Sometimes | | |
| Business Rules: | BR-27 | | |
| Other Information: | N/A | | |
| Assumptions: |  | | |

**Table 31 - <Admin> Remove shooting category use case specification**

## 3. Functional Requirements

### 3.1 System Functional Overview

#### a. Screen Flow

1. **Customer’s screen flow**
2. **Photographer’s screen flow**

#### b. Screen Details

*[Provide the descriptions for the screens in the Screens Flow above]*

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **Screen** | **Description** |
| 1 | Order Meals | Create Order | <<Screen Brief description>> |
| 2 | Order Meals | Change Order |  |
| 3 | .. |  |  |

#### c. Screen Authorization

*[Provide the system roles authorization to the system features (down to screens, and event to the screen activities if applicable) in the table form as below – replace Role1, Role2,… with the specific system user role names]*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | **Role1** | **Role2** | **Role3** | **Role4** | **RoleX** |
| <<Screen Name1>> | X |  |  | X | X |
| <<Screen Activity>> |  |  |  | X | X |
| <<Screen Name2>> | X |  |  | X |  |
| Query All Data | X |  |  |  |  |
| Query Own Data |  |  |  | X |  |
| Query Managed Data |  |  |  | X |  |
| Add New Data |  |  |  | X | X |
| Update All Data |  |  |  |  | X |
| Update Own Data |  |  |  |  | X |
| Update Managed Data |  |  |  |  | X |
| Delete Data |  |  |  |  |  |
| … |  |  |  |  |  |

In which:

* Role1: <<role1 description>>
* Role2: <<role2 description>>
* …

#### d. Non-Screen Functions

*[Provide the descriptions for the non-screen system functions, i.e batch/cron job, service, API, etc.]*

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Feature** | **System Function** | **Description** |
| 1 | <<Feature Name>> | <<Function Name1>> | <<Function Name1 Description>> |
| 2 | … |  |  |

#### e. Entity Relationship Diagram

**Entities List**

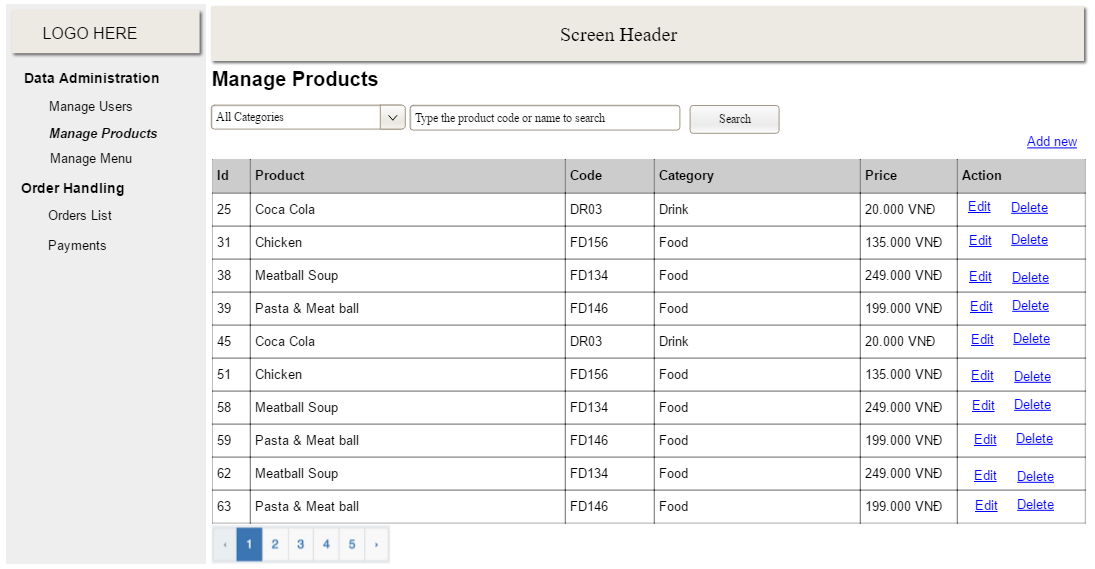
|  |  |  |
| --- | --- | --- |
| **#** | **Entity** | **Description** |
| 1 | Customer | Customer is a collection of entities: customerId, username, password, fullname, phone, address avatar. |
| 2 | Admins | Admin is a collection of entities: id, username, password, fullname, phone, address,avatar. |
| 3 | Booking | Booking is a collection of entities: customerId, photographerId, bookingDate, bookingTime, status, dateCreate, location. |
| 4 | Category | Category is a collection of entities: id, name, description. |
| 5 | Album | Album is a collection of entities: id, name, images |
| 6 | Photographer | Photographer is a collection of entities: photographerId, username, password, fullname, phone, address, avatar, description, rating. |
| 7 | Service | Service is a collection of entities: serviceId, name, price, description. |
| 8 | Review | Review is a collection of entities: customerId, photographerId, rating, comment. |

### 3.2 <<Feature Name 1>>

#### a. <<Function Name 1>>

*[A function can be a screen or a non-screen function (listed in the part 5.1 above). In this part, you need to provide the details on the related function, focus on mentioning below information*

* *Function trigger: how this function is triggered (navigation path, a timing frequency, etc.*
* *Function description: actors/roles, purpose, interface, data processing, etc.*
* *Screen layout: mockup prototype of the screen, sample below is for Manage Products screen*

**

* *Function Details: provide explanation for the data, validation, functionalities (for both normal cases and abnormal cases), etc. of the function so that the reader can image how it work.*

*]*

#### b. <<Function Name 2>>

…

### 3.3 <<Feature Name 2>>

…

## 4. Non-Functional Requirements

### 4.1 External Interfaces

#### a. User Interfaces

For web application:

UI-1: GUI phải đơn giản, dễ sử dụng.

UI-2: Ngôn ngữ trong web phải là tiếng Việt.

UI-3: Trang web phải đáp ứng sử dụng trên: laptop, tablet, mobile.

For mobile application:

UI-1: Giao diện dễ nhìn, dễ sử dụng.

UI-2: Ngôn ngữ phải dùng tiếng Việt.

UI-3: GUI phải chia độ phân giải ở nhiều màn hình.

UI-4: Các chức năng được sắp xếp và rõ ràng.

#### b. Software Interfaces

SI-1:

#### c. Hardware Interfaces

*[Describe the characteristics of each interface between the software and hardware (if any) components of the system. This description might include the supported device types, the data and control interactions between the software and the hardware, and the communication protocols to be used. List the inputs and outputs, their formats, their valid values or ranges, and any timing issues developers need to be aware of. If this information is extensive, consider creating a separate interface specification document]*

No hardware interfaces have been identified.

#### d. Communications Interfaces

*[State the requirements for any communication functions the product will use, including e-mail, Web browser, network protocols, and electronic forms. Define any pertinent message formatting. Specify communication security or encryption issues, data transfer rates, handshaking, and synchronization mechanisms. State any constraints around these interfaces, such as whether e-mail attachments are acceptable or not.]*

CI-1: The COS shall send an email or text message (based on user account settings) to the Patron to confirm acceptance of an order, price, and delivery instructions.

CI-2: The COS shall send an email or text message (based on user account settings) to the Patron to report any problems with the meal order or delivery.

### 4.2 Quality Attributes

*[List all the required system characteristics (quality attributes) specification. Some of the possible attributes are provided with the guide/descriptions are mentioned here]*

#### a. Usability

*[This section includes all those requirements that affect usability. For example, specify the required training time for a normal users and a power user to become productive at particular operations specify measurable task times for typical tasks or base the new system’s usability requirements on other systems that the users know and like specify requirement to conform to common usability standards, such as IBM’s CUA standards Microsoft’s GUI standards]*

#### b. Reliability

*[Requirements for reliability of the system should be specified here. Some suggestions follow:*

*Availability—specify the percentage of time available ( xx.xx%), hours of use, maintenance access, degraded mode operations, and so on.*

*Mean Time Between Failures (MTBF) — this is usually specified in hours, but it could also be specified in terms of days, months or years.*

*Mean Time To Repair (MTTR)—how long is the system allowed to be out of operation after it has failed?*

*Accuracy—specifies precision (resolution) and accuracy (by some known standard) that is required in the system’s output.*

*Maximum Bugs or Defect Rate—usually expressed in terms of bugs per thousand lines of code (bugs/KLOC) or bugs per function-point( bugs/function-point).*

*Bugs or Defect Rate—categorized in terms of minor, significant, and critical bugs: the requirement(s) must define what is meant by a “critical” bug; for example, complete loss of data or a complete inability to use certain parts of the system’s functionality.]*

#### c. Performance

*[The system’s performance characteristics are outlined in this section. Include specific response times. Where applicable, reference related Use Cases by name.*

*Response time for a transaction (average, maximum)*

*Throughput, for example, transactions per second*

*Capacity, for example, the number of customers or transactions the system can accommodate*

*Degradation modes (what is the acceptable mode of operation when the system has been degraded in some manner)*

*Resource utilization, such as memory, disk, communications, and so forth.]*

#### d. Dependability

*[Software dependability includes a range of characteristics including reliability, security and safety. Dependable software should not cause physical or economic damage in the event of system failure. Malicious users should not be able to access or damage the system]*

##### d1. Security

*[Specify any requirements regarding security or privacy issues that restrict access to or use of the product. These could refer to physical, data, or software security. Security requirements often originate in business rules, so identify any security or privacy policies or regulations to which the product must conform. If these are documented in a business rules repository, just refer to them.]*

##### d2. Safety

*[Specify requirements that are concerned with possible loss, damage, or harm that could result from use of the product. Define any safeguards or actions that must be taken, as well as potentially dangerous actions that must be prevented. Identify any safety certifications, policies, or regulations to which the product must conform.]*

#### e. Supportability

*[This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, and maintenance utilities.]*

#### f. Design Constraints

*[This section indicates any design constraints on the system being built. Design constraints represent design decisions that have been mandated and must be adhered to. Examples include software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints, purchased components, class libraries, and so on.]*

#### g. Support Documents

*[Describes the requirements, if any, for o-line user documentation, help systems, help about notices, and so forth.]*

#### h. Purchased Components

*[This section describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility and interoperability or interface standards.]*

## 5. Other Requirements

### 5.1 Appendix1 - Messages List

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Message code** | **Message Type** | **Context** | **Content** |
| 1 | MSG01 | In line | There is not any search result | *No search result.* |
| 2 | MSG02 | In red, under the text box | Input-required fields are empty | *The \* field is required.* |
| 3 | MSG03 | Toast message | Updating asset(s) information successfully | *Update asset(s) successfully.* |
| 4 | MSG04 | Toast message | Adding new asset successfully | *Add asset successfully.* |
| 5 | MSG05 | Toast message | Confirming email of asset hand-over is sent successfully | *A confirmation email has been sent to {email\_address}.* |
| 6 | MSG06 | Toast message | Resetting asset information successfully | *Return asset(s) successfully.* |
| 7 | MSG07 | Toast message | Deleting asset information successfully | *Delete asset(s) successfully.* |
| 8 | MSG08 | In red, under the text box | Input value length > max length | *Exceed max length of {max\_length}.* |
| 9 | MSG09 | In line | Username or password is not correct when clicking sign-in | *Incorrrect user name or password. Please check again.* |

### 5.2 Appendix2 - …

### 5.3 …