3.2.2.4. Pay with Paypal use case

Figure 2‑8- Pay with Paypal use case diagram

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE-UC004 SPECIFICATION** | | | | |
| **Use-case No.** | UC004 | **Use-case Version** | | V0.1 |
| **Use-case Name** | Pay with Paypal | | | |
| **Author** | Nguyen Luong Hai | | | |
| **Date** | 31/01/2013 | **Priority** | High | |
| **Actor:**  User  **Summary:**  User can pay for reservation with paypal  **Goal:**  Informs user of the amount that must be paid and guides user through the payment process  **Triggers:**  User want to pay for a reservation  (User clicks “Thanh toán” button in Provide booker’s details screen)  **Pre-conditions:**  The page is fully loaded.  If user is customer, login with “Customer” role.  **Post-conditions:**  Success:   * Process payment successfully * Generate and display reservation code for user * Complete reservation process   Failure: System displays error message. Content of error message will be specified in Exception section.  **Main Success Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | 1. User clicks on “Thanh toán” button    3. User chooses a payment method    5. User clicks on “Tiếp tục” button.      7. Complete payment process in paypal site[Alternative 1] [Exception 1] | 2. Display reservation details   * Trip [Chặng: string, label] * Departure date [Ngày giờ khởi hàng: string, label] * Departure station address [Địa chỉ trạm đi: string, label] * Arrival date [Ngày giờ đến: string, label] * Arrival station address [Địa chỉ trạm đến: string, label] * Seat numbers [Số ghế: string, label] * Ticket price [Giá vé: string, label] * Payment method [Phương thức thanh toán] * Online transaction fee [Phí đặt vé trực tuyến: string, label] * Total amount [Tổng cộng: string, label] * Next [Tiếp tục: button]   4. Update field [Online transaction fee] and [Total amount]  6. Direct user to paypal site. Display payment details   * Ticket Price [Price: number, label] * Ticket Amount [Quantity: number, label] * Transaction fee [Fee: number, label]     8. Show message “Quy trình đặt vé hoàn tất”. Display reservation code. |   **Alternative Scenario:**   | Ator Actions | System Response | | --- | --- | | [Alternative 1]  1. User cancel payment process and return to bus reservation site | 2. Show message “Thông tin đặt vé của quý khách đã được huỷ” |   **Exceptions:**   |  |  | | --- | --- | |  |  | | Actor Actions | System Response | | 1. User takes longer than 15 minutes to complete payment process on paypal site. | 2. Show message “Vì đã quá 15 phút, thông tin đặt vé của quý khách đã bị huỷ”. |   **Relationships:**  Login, Provide booker’s details  **Business Rules:**  Payment process must be completed within 15 minutes | | | | |

Table 6: Pay with Paypal Use Case Specification

<to be added>

Figure 2‑9- Review reservation details screen

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Trip – read-only text (Chặng) | Display the starting point and destination of the trip |
| **2** | Departure Date – read-only text (Ngày giờ khởi hành) | Display the departure date and time of the trip |
| **3** | Departure Station Address – read-only text (Địa chỉ trạm đi) | Display the address of the departure station |
| **4** | Arrival Date – read-only text (Ngày giờ đến) | Display the arrival date and time of the trip |
| **5** | Arrival Station Address – read-only text (Địa chỉ trạm đến) | Display the address of the arrival station |
| **6** | Seat numbers – read-only text (Số ghế) | Display the booked seat numbers |
| **7** | Ticket price – read-only text (Giá vé) | Display the price of each ticket |
| **8** | Payment method – drop-down list | Allows user to choose payment method |
| **9** | Online transaction fee – read-only text (Phí đặt vé trực tuyến) | Display the fee for online booking |
| **10** | Total amount – read-only text (Tổng cộng) | Display the total amount of the reservation |
| **11** | Status – read-only text (Trạng thái) | Display the status of the reservation |
| **12** | Next – button (Tiếp tục) | Process to payment site |

Table 7: Review reservation details screen’s Controls

<to be added>

Figure 2‑10- Payment details screen

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Ticket price - Read-only field(Price) | Display the price of ticket |
| **2** | Quantity (Quantity) - Read-only field | Display the quantity of tickets |
| **3** | Fee (Fee) – Read-only field | Display fee for using online booking |
| **4** | Total amount (Total amount) - Read-only field | Display total amount that must be paid |

Table 8: Paypal site screen’s Controls

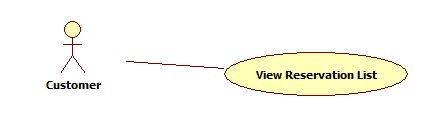
3.2.2.5. View Reservation List use case

Figure 2‑11- View Reservation List use case diagram

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE-UC005 SPECIFICATION** | | | | |
| **Use-case No.** | UC005 | **Use-case Version** | | v0.1 |
| **Use-case Name** | View Reservation List | | | |
| **Author** | Nguyen Luong Hai | | | |
| **Date** | 31/01/2013 | **Priority** | High | |
| **Actor:**  User(Customer)  **Summary:**  User views list of past reservations.  **Goal:**  Show all past reservations made by the user  **Triggers:**  User click “Thông tin đặt vé” link in page header  **Pre-conditions:**  The page is fully loaded.  User logins with “Customer” role  **Post-conditions:**  Success: The list of reservations are listed  Failure: System displays error message. Content of error message will be specified in Exception section.  **Main Success Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | 1. User click “Thông tin đặt vé” link | 2. Display the list of reservations made by user[Alternative 1]   * Number [Stt: number, label] * Trip [Chặng: string, label] * Departure date [Ngày giờ khởi hành: string, label] * Details [Chi tiết: string, link] * Cancel [Huỷ: string, link] [Alternative 2] [Alternative 3] |   **Alternative Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | [Alternative 1]  1. User hasn’t made any reservation    [Alternative 2]  1. It’s past departure date  [Alternative 3]  1. Reservation has been cancelled | 2. Display “Quý khách chưa đặt vé lần nào”    2. Display Departed [Đã đi: string, label]    2. Display Cancelled [Đã huỷ: string, label] |   **Exceptions:**   |  |  | | --- | --- | | Actor Actions | System Response | | N/A | |   **Relationships:**  Login  **Business Rules:** | | | | |

Table 9: View Reservation List Use Case Specification

<to be added>

Figure 2‑12- Reservation List screen

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Number - Read-only field (Stt) | Display index number of reservation |
| **2** | Trip - Read-only field (Chặng) | Display the starting point and destination of the trip |
| **3** | Departure Date - Read-only field (Ngày giờ khởi hành) | Display the departure date and time of the trip |
| **4** | Details - Link (Chi tiết) | Display reservation details |
| **5** | Cancel - Link (Hủy) | Cancel reservation |

Table 10: Reservation List screen’s Controls

* + - 1. View reservation details use case



Figure 2‑13- View reservation details use case diagram

|  |  |  |  |
| --- | --- | --- | --- |
| **USE CASE-UC006 SPECIFICATION** | | | |
| **Use-case No.** | UC006 | **Use-case Version** | v0.1 |
| **Use-case Name** | View reservation details | | |
| **Author** | Nguyen Luong Hai | | |
| **Date** | 31/01/2013 | **Priority** | High |
| **Actor:**  User  **Summary:**  User views detailed information of a reservation  **Goal:**  Show user necessary information about the reservation  **Triggers**  User wants to view reservation details.  (Customer click “Chi tiết” in Reservation List screen, or user input reservation code in Search Reservation)  **Pre-conditions:**  The page is fully loaded.  **Post Conditions:**  Success:   * Displays reservation details   Failure: System displays error message. Content of error message will be specified in Exception section.  **Main Success Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | 1. Click “Chi tiết” in Reservation List screen  Or enter reservation code and click “Hiển thị” button in the Search Reservation screeen | 2. Display reservation details[Exception 1] [Exception 2] [Exception 3] [Exception 4]   * Trip [Chặng: string, label] * Departure date [Ngày giờ khởi hàng: string, label] * Departure station address [Địa chỉ trạm đi: string, label] * Arrival date [Ngày giờ đến: string, label] * Arrival station address [Địa chỉ trạm đến: string, label] * Seat numbers [Số ghế: string, label] * Ticket price [Giá vé: string, label] * Online transaction fee [Phí đặt vé trực tuyến: string, label] * Total amount [Tổng cộng: string, label] * Status [Trạng thái: string, label]   Display button to cancel reservation [Alternative 1] [Alternative 2] |   **Alternative Scenario:**   |  |  |  | | --- | --- | --- | | Actor Actions | System Response | | | [Alternative 1]  1. The departure time has past  [Alternative 2]  1. The reservation was cancelled | 2. Does not display cancel button  2. Does not display cancel button  Display refunded amount |   **Exceptions:**   |  |  | | --- | --- | | Actor Actions | System Response | | [Exception 1]  1. Reservation code does not match any reservation  [Exception 2]  1. Reservation was made by a registered user, but user has not logged in    [Exception 3]  1. User has logged in, but reservation was made by a different registered user    [Exception 4]  1. User has not entered a reservation code, or the reservation code is a string of 6 alpha-numeric characters | 2. Display message “Không tìm thấy thông tin đặt vé. Xin vui lòng kiểm lại mã đặt vé.”    2. Display message “Quý khách cần đăng nhập để xem thông tin đặt vé này.”    2. Display message “Quý khách không có quyền truy cập thông tin đặt vé này.”    2. Display message “Xin vui lòng nhập mã đặt vé hợp lệ.” |   **Relationships:**  Login, Create Reservation and View Reservation List.  **Business Rules:**  For reservations made by registered users, only the booker can access the reservation | | | |

Table 13: View Reservation Details Use Case Specification

<to be added>

Figure 2‑14- Search Reservation screen

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Reservation code - Textbox (Mã đặt vé) | Get code of the reservation to be viewed |
| **2** | Display - button (Hiển thị) | Display reservation details |

Table 14: Search Reservation screen’s controls

<to be added>

Figure 2‑15- Reservation Details screen

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Trip – read-only text (Chặng) | Display the starting point and destination of the trip |
| **2** | Departure Date – read-only text (Ngày giờ khởi hành) | Display the departure date and time of the trip |
| **3** | Departure Station Address – read-only text (Địa chỉ trạm đi) | Display the address of the departure station |
| **4** | Arrival Date – read-only text (Ngày giờ đến) | Display the arrival date and time of the trip |
| **5** | Arrival Station Address – read-only text (Địa chỉ trạm đến) | Display the address of the arrival station |
| **6** | Seat numbers – read-only text (Số ghế) | Display the booked seat numbers |
| **7** | Ticket price – read-only text (Giá vé) | Display the price of each ticket |
| **8** | Online transaction fee – read-only text (Phí đặt vé trực tuyến) | Display the fee for online booking |
| **9** | Total amount – read-only text (Tổng cộng) | Display the total amount of the reservation |
| **10** | Status – read-only text (Trạng thái) | Display the status of the reservation |
| **11** | Cancel – button (Huỷ) | Cancel the reservation |
| **12** | Refund amount – read-only text (Số tiền hoàn lại) | Display the amount refunded when the reservation was cancelled |

Table 15: Reservation Details screen’s Control

3.2.2.7 Cancel reservation use case



Figure 2‑16- Cancel Reservation use case diagram

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **USE CASE-UC007 SPECIFICATION** | | | | |
| **Use-case No.** | UC007 | **Use-case Version** | | v0.1 |
| **Use-case Name** | Cancel Reservation | | | |
| **Author** | Nguyen Luong Hai | | | |
| **Date** | 31/01/2013 | **Priority** | Medium | |
| **Actor:**  User  **Summary:**  User cancel reservation.  **Goal:**  Guide user through cancel reservation process  **Triggers:**  User want to cancel reservation  (User click “Huỷ” button in Reservation List screen or Reservation Details screen).  **Pre-conditions:**  The page is fully loaded.  **Post-conditions:**  Success: The reservation is cancelled.  Failure: System displays error message. Content of error message will be specified in Exception section.  **Main Success Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | 1. User click button “Huỷ” [Exception 1] [Exception 2]      3. Click “Xác nhận” button [Alternative 1] | 2. Display confirm popup with refund details   * Refund amount [Số tiền hoàn lại: string, label]   4. Cancel the reservation, close popup  - Refresh current screen |   **Alternative Scenario:**   |  |  | | --- | --- | | Actor Actions | System Response | | [Alternative 1]  1. Click “Quay lại” button. | 2. Close popup. |   **Exceptions:**   |  |  | | --- | --- | | Actor Actions | System Response | | [Exception 1]  1. Reservation was made by a registered user, but user has not logged in    [Exception 2]  User has logged in, but reservation was made by a different registered user | 2. Display message “Quý khách cần đăng nhập để hủy thông tin đặt vé này.”  Return to homepage    2. Display message “Quý khách không có quyền truy cập thông tin đặt vé này.”  Return to homepage |   **Relationships:**  Login, Create Reservation, View Reservation List, View Reservation Details  **Business Rules:**  The amount to be refunded is based on the time until the departure date | | | | |

Table 16: Cancel Reservation Use Case Specification

<to be added>

Figure 2‑17- Cancel Reservation Popup

|  |  |  |
| --- | --- | --- |
| **No.** | **Name** | **Description** |
| **1** | Refund amount – read-only text (Số tiền hoàn lại) | Display the amount to be refunded |
| **2** | Confirm – button (Xác nhận) | Cancel the reservation |
| **3** | Back – button (Quay lại) | Cancel the cancel process |

Table 17: Cancel Reservation popup’s Control

3.2.3. Software System Attributes

3.2.3.1 Reliability

3.2.3.2 Availability

3.2.3.3 Security

3.2.3.4 Maintainability

3.2.3.5 Portability

3.2.3.6 Performance

**3.3. Entity Relationship Diagram or Data Structures**

*<Provide the ERD Diagram for the system here. If your team uses a file or in-memory storage facility instead of a database, replace this section by ‘Data Structures’. Note, use only ERD or Data Structures>*

**3.4. Other material (if any)**

**Report No.4: Software Design Description (SDD)**

**4.1. Design Overview**

**4.2. System Architectural Design**

4.2.1 Choice of System Architecture

4.2.2 Discussion of Alternative Designs

4.2.3 Description of System Interface

**4.3. Component Diagram**

**4.4. Detailed Description of Components**

**4.4.1. CRC Cards (Class-Responsibility-Collaborators)**

4.4.1.*n.* Component-*n*

4.4.1.n.1. Class Diagram

4.4.2.n.2. Class Diagram Explanation

*<Provide a brief explanation of the class diagram above. You do not need to explain “obvious” parts of your class diagram>*

4.4.3.n.3. Algorithms of important methods in each class, specified in pseudo code or by Flow-Chart

**4.5. Sequence Diagram**

**4.6. User Interface Design**

4.6.1 Description of the User Interface

4.12.1.1 Screen Images

4.12.1.2 Objects and Actions

**4.7. Database Design or Data Structures**

*<Provide the detailed database design for the system here. If your team uses a file or in-memory storage facility instead of database, remove this section; use the ‘Data Structures’ section. >*

**4.8. Other material (if any)**

**Report No.5: Software Test Documentation (STD)**

**5.1. Introduction**

1.1 System Overview

1.2 Test Approach

**5.2. Test Plan**

2.1 Features to be tested

2.2 Features not to be tested

2.3 Testing Tools and Environment

**5.3.** **Test Cases**

3.*n* Case-*n*

3.*n*.1 Purpose

3.*n*.2 Inputs

3.*n*.3 Expected Outputs & Pass/Fail criteria

3.*n*.4 Test Procedure

**5.5. Checklists**

5.5.1. Checklist of Validation

*<Put the checklist here. Describe how it is used and the resulted checklist>*

5.5.2. Submission Checklist

*<Put the checklist here. Describe how it is used and the resulted checklist>*

**5.5. Other material (if any)** (including appendix A)

APPENDIX A. TEST LOGS

A.n Log for test *n*

A.n.1 Test Results

A.n.2 Incident Report

**Report No.6: Software User’s Manual**

**6.1. Installation Guide**

**6.2. User’s Guide**

**6.3. Other [Optional]**

**Appendix**