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| **FPT UNIVERSITY** |
| Capstone Project Document  Report 5  Project Management Plan |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | **Group 18** | | | **Group Members** | Đào Bảo Long – Team Leader – SE60690  Lê Phúc Lữ – Team Member – 60563  Nguyễn Thanh Tùng – Team Member – SE60609  Nguyễn Tấn Đức – Team Member – SE60660 | | **Supervisor** | Nguyễn Trọng Tài | | **Ext Supervisor** | N/A | | **Capstone Project Code** | i-Deliver |   Build a Web Application  for manages all activities of  delivery service system by coach. | |
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|  |
| Hồ Chí Minh City, January 2014 |

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# System Implementation & Test



## Introduction



### System Overview

From the perspective of a user, the i-Deliver system operates in the following order

### Test Approach

The system will be tested following the normal testing approach for a software project, including for major stages: Unit testing, Integration testing, System testing, and Acceptance testing.

Firstly, each member will be responsible for *unit testing* all the modules he or she developed. The other team members will later approve of the modules developed by verifying that they comply with the detailed designs.

Secondly, the team leader will perform *integration testing* for the whole application with the assistance of the other team members.

Next, all of the team members will conduct *system testing* to make sure that the system is consistent with the requirements initially specified.

Finally, the supervisor of the project will be accountable for a*cceptance testing*, with the assistance of all team members.

## Screen shots

## Test Plan



### Features to be tested

The following features will be system-tested and the results are specified in this test document. The order of the tested features is listed in the system main flow.

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Feature | Description | Assigned |
| 1. | [Log in](#_Log_in) | Test if the user is authenticated before he or she access authorized resources. | LongDB |
| 2. | [View dashboard](#_View_Dashboard) | Test if the dashboard page for staffs and administrators is displayed correctly | LongDB |
| 3. | [Create a trip](#_Create_a_hotel) | Test if the staffs can create a new trip for a route from defined schedule | LongDB |
| 4. | [Post new package delivery request](#_Approve_hotel_opening) | Test if the customers can post new package delivery request easily | TungNT |
| 5. | [Monitor price/fee](#_Monitor_prices) | Test if the delivery fee can be easily and accurately monitored | LuLP |
| 6. | [Approve package delivery request](#_Synchronize_with_external) | Test if the staffs can approve package delivery request issued by a customer | TungNT |
| 7. | [Search routes](#_Search_hotels) | Test if the customers can search routes information. | TungNT |
| 8. | [Statistics review](#_Search_available_rooms) | Test if the system administrator can review the statistics of system performance | LuLP |
| 9. | [Prepare for packages return](#_Request_a_refund) | Test if a packages can be returned if it can’t be delivered to receiver | LongDB |
| 10. | [Rate a station](#_Rate_a_hotel) | Test if the stations can be rated | DucNT |
| 11. | [Review a station](#_Write_a_review) | Test if the customers can write reviews for stations | DucNT |
| 12. | [Tracking requests](#_Approve_booking) | Test if the customers can track delivery status of packages | TungNT |

### Features not to be tested

The following features will not be tested.

* For guests and travelers: Change password, Update account information, View past requests.
* For staffs and system admins: Add a coach, Edit a coach, Delete a coach, Add a coach type, Edit a coach type, Delete a coach type, Add a station, Edit a station, Delete a station, Add a route, Edit a route, Delete a route, Add a schedule, Edit a schedule, Delete a schedule, Add a stage, Edit a stage, Delete a stage, Delete a comment, Clear station rating.
* For system administrators: Manage staff accounts

## Test Cases



### Post new delivery request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in the system with Customer role  **2.** Click on the “Chuyển phát” link in the menu bar  **3.** Provide the necessary information about the receiver and packages  **4.** Click the “Hoàn tất” button | | | | | | |
| [CH-1] | Try to post a request with errorneous input | * Make one or more validation errors when entering the information for the request. * Click the “Hoàn tất” button. | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 10/04/14 |  |
| [CH-2] | Post a request with validated input | * Fill in all fields with validated input; * Click the “Hoàn tất” button. | The request is saved into the database. A delivery request is issued waiting for a Staff to approve of it. The customer is redirected to the request management page. |  | Passed | 10/04/14 |  |

### Online payment

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Clicks on the “Thanh toán” link in the menu bar.  **2.** Select request need to pay on request list, user is redirected to new page with payment information.  **3.** Clicks on “Check out with PayPal” button to direct to Paypal payment gate. | | | | | | |
| [OP-1] | Payment was successful | * User complete payment information at Paypal site; | The user completed payment information with validate credit card;  Paypal returns successful payment. |  | Passed | 10/04/14 |  |
| [OP-2] | Payment was not completed | * User complete payment information at Paypal site; | The user completed payment information with invalidate credit card;  Paypal can not charge money and return unsuccessful payment result. |  | Passed | 10/04/14 |  |
| [OP-3] | User cancelled payment action | * User click on “Hủy bỏ” button | The user cancelled payment action then they is redirected to request list page |  | Passed | 10/04/14 |  |

### Tracking packages

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.**  **2.** | | | | | | |
| [TP-1] | Approve a booking successfully | * Click on the button “Duyệt” to approve of a new booking. | The booking is marked as “Approved” and the message “Đã duyệt thành công đặt phòng mang mã số X”, where X is the booking code, is shown.  Once the booking is approved, you cannot restore it back. |  | Passed | 19/11/2013 |  |
| [TP -2] | Try to approve a booking that was refunded | * Click on the “Quản lý đặt phòng” button on the hotel management page * In the mean time, manually change the booking status to “Đã hoàn tiền” (This status appears when the hotel owner approves of a refund request). * Click on the button “Duyệt” to approve of a new booking. | The message “Không thể duyệt đặt phòng mang mã số X. Vui lòng tải lại trang”, where X is the booking code, is shown. |  | Passed | 19/11/2013 |  |
| [TP -3] | Try to approve a booking that was expired | * Click on the “Quản lý đặt phòng” button on the hotel management page * In the mean time, manually change the server time to after the check-in date of a new booking; * Click on the button “Duyệt” to approve of that new booking. | The message “Không thể duyệt đặt phòng mang mã số X. Vui lòng tải lại trang”, where X is the booking code, is shown. |  | Passed | 19/11/2013 |  |

### Feedback

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in to the system with Customer role  **2.** On station section, user clicks on “Góp ý” button  3**.** Popup display station information with stars rating bar and textarea for comment | | | | | | |
| [FB-1] | Rate a hotel successfully with validated input | * Click on the stars (from 0 to 5) to choose the point for a rating criterion. * Leave a comment in textarea below stars. | The rating is saved and the average rating section is reloaded. |  | Passed | 10/04/14 |  |
| [FB-2] | Fail to rate a hotel | * Click on the stars (from 0 to 5) to choose the point. * Leave blank for comment. | The current rating level won’t be saved.  The average rating section is not reloaded. |  | Passed | 10/04/14 |  |
| [FB-2] | Fail to rate a hotel | * Open a new context of current page and logout. * Click on the stars (from 0 to 5) to choose the point. | Textarea for comment will be disabled.  The current rating level won’t be saved.  The average rating section is not reloaded. |  | Passed | 10/04/14 |  |

### Approve delivery request

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in with account granted Staff role.  **2.** Click on the “Quản lý yêu cầu vận chuyển” link in the menu bar if the log in form does not redirect you to this page.  **3.** Click on the “Tiếp nhận yêu cầu” link in the menu bar  All of new requests which waiting for approved is on the view. | | | | | | |
| [AD-1] | Approve requests successfully with validated input | * Click on “Nhập hóa đơn” button at the end of each row on the requests table. * Fills in all fields with validated input. * Click on “Xác nhận” button | The selected request status is updated in database with corresponding invoice.  The staff is redirected to assign packages page. |  | Passed | 11/04/14 |  |
| [AD-2] | Try to approve a request with errorneous input | * Click on “Nhập hóa đơn” button at the end of each row on the requests table. * Make one or more validation errors when entering the information for the invoice. * Click on “Xác nhận” button | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 11/04/14 |  |
| [AD-3] | Approve requests unsuccessfully with validated input | * Click on “Nhập hóa đơn” button at the end of each row on the requests table. * Fills in all fields with validated input. * Click on “Hủy bỏ” button | Nothing has changed in database.  The current page still keeps on. |  | Passed | 11/04/14 |  |

### Assign package

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in with account granted Staff role.  **2.** Click on the “Quản lý yêu cầu vận chuyển” link in the menu bar if the log in form does not redirect you to this page.  **3.** Click on the “Xếp lịch vận chuyển” link in the menu bar  All of approved requests which waiting for assigned is on the view. | | | | | | |
| [AP-1] | Assign packages successfully with validated input | * Check box at the end of each row to select which package to assign or check box on the top to select all packages * Click on “Xếp lịch” button to assign selected package(s) | * The current page is redirected to a new page with a list of assigned package(s) and detail of trip that package was assigned to |  | Passed | 11/04/14 |  |
| [AP -2] | Assign packages unsuccessfully | * Check box at the end of each row to select which package to assign or check box on the top to select all packages * Click on “Xếp lịch” button to assign selected package(s) | The current page is redirected to a new page with nothing because assign procedure does not meet condition (trips/schedules is not available) |  | Passed | 11/04/14 |  |
| [AP -3] | Assign packages unsuccessfully | * Click on “Xếp lịch” button without select package to assign | The current page is redirected to a new page with nothing because none of packages were selected. |  | Passed | 11/04/14 |  |

### Prepare for packages return

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in to the system with System Admin role.  **2.** Click on the “Hàng đã đến trạm” link in the left menu bar.  All of requests have arrived in end-station but late for delivery now waiting for return or cancel. | | | | | | |
| [PR-1] | Successfully prepare for packages return | * Click on “Trả hàng” button at the end of each row on the packacges table. * A popup dialog is displayed with confirm message “Bạn muốn gửi trả lại món hàng này?” * Click on “Xác nhận” button of confirm popup dialog. | The package has selected for return is updated in database.  The staff is redirected to requests waiting for assign page. |  | Passed | 11/04/14 |  |
| [PR-2] | Fail to prepare for packages return | * Click on “Trả hàng” button at the end of each row on the packacges table. * A popup dialog is displayed with confirm message “Bạn muốn gửi trả lại món hàng này?” * Click on “Hủy bỏ” button of confirm popup dialog. | Nothing has changed in database.  The current page still keeps on. |  | Passed | 11/04/14 |  |

### Create a trip

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in the system with Staff role.  **2.** Click on the “Quản lý chuyến xe” link in the left menu bar | | | | | | |
| [CT-1] | Create trip successfully with validated input | * Select a date by datepicker * Select which route to create trip by click on dropdown list under datepicker. * Check box at the start of each row in the schedules table to choose schedule for trip or check box on top header of schedules table to select all displayed schedules. * Click on “Tạo chuyến mới” button | The trip is saved to database.  The current page is redirected to trip list page with new trip records on the top of list. |  | Passed | 11/04/14 |  |
| [CT-2] | Try to create a trip with errorneous input | * Make one or more validation errors when click the “Tạo chuyến mới” button without select date or route or schedule | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 11/04/14 |  |
| [CT-3] | Create trip unsuccessfully | * Select a date by datepicker * Select which route to create trip by click on dropdown list under datepicker. * Check box at the start of each row in the schedules table to choose schedule for trip or check box on top header of schedules table to select all displayed schedules. * Click on “Hủy bỏ” button | The trip is not saved to database.  The current page is back to trip list page. |  | Passed | 11/04/14 |  |

### Create a schedule

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in the system with Staff role.  **2.** Click on the “Quản lý lịch trình” link in the left menu bar | | | | | | |
| [CT-1] | Create schedule successfully with validated input | * Select a route from dropdown list * Select a coach from dropdown list * Fills in textbox of “Giờ đi dự kiến” and “Giờ đến dự kiến” with valid timespan value * Click on “Tạo mới” button | The schedule is saved to database.  The current page is redirected to schedule list page with new schedule records on the top of list. |  | Passed | 11/04/14 |  |
| [CT-2] | Try to create a schedule with errorneous input | * Make one or more validation errors when click the “Tạo mới” button without select route/coach or both | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 11/04/14 |  |
| [CT-3] | Try to create a schedule with errorneous input | * Make one or more validation errors when click the “Tạo mới” button without fills in “Giờ đi dự kiến” or “Giờ đi dự kiến” textbox | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 11/04/14 |  |
| [CT-4] | Create schedule unsuccessfully | * Select a route from dropdown list * Select a coach from dropdown list * Fills in textbox of “Giờ đi dự kiến” and “Giờ đến dự kiến” with valid timespan value * Click on “Hủy bỏ” button | The current page is back to schedules list page. |  | Passed | 11/04/14 |  |

### Monitor price/fee

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in to the system with System Admin role.  **2.** Clicks on the “Phí vận chuyển” link in the menu bar.  **3.** Change price/fee, weight and volume value to updates it information. | | | | | | |
| [MP-1] | Modify/update price, volume or weight with validated input | * Fills in all textboxes with of valid price, volume or weight values. * Click the “Hoàn tất” button. | Modified/updated information is saved to database.  The system admin is redirected to list of fee levels page. |  | Passed | 24/11/2013 |  |
| [MP-2] | Try to modify/update price, volume or weight with errorneous input | * Make one or more validation errors when entering the information for price, volume or weight. * Click the “Hoàn tất” button. | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 10/04/14 |  |

### Create staff account

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test case ID | Test Case Description | Test Case Procedure | Expected Output | Inter-Test Case Dependence | Result | Test Date | Note |
|  | **Main Steps: 1.** Log in the system with System Admin role.  **2.** Click on the “Quản lý nhân viên” link in the left menu bar | | | | | | |
| [CT-1] | Create staff account successfully with validated input | * Fill in all fields with validated input; * Click the “Tạo mới” button. | The new staff account is saved to database.  The system admin is redirected to staff accounts list page with new account records on the top of list. |  | Passed | 11/04/14 |  |
| [CT-2] | Try to create staff account with errorneous input | * Make one or more validation errors when click the “Tạo mới” button without fill in all fields or fill in all fields with errorneous input | The corresponding message will be shown next to the fields that have errorneous input. |  | Passed | 11/04/14 |  |
| [CT-3] | Create staff account unsuccessfully | * Fill in all fields with validated input; * Click the “Hủy bỏ” button. | Nothing has changed in database.  The current page is back to staff accounts list page. |  | Passed | 11/04/14 |  |

## Checklists



### Checklist of Validation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | | Yes | No | N/A |
| 1 | Does a failure of validation on every field cause a sensible user error message? | 🗹 |  |  |
| 2 | Is the user required to fix entries which have failed validation tests? | 🗹 |  |  |
| 3 | Have any fields got multiple validation rules and if so are all rules being applied? | 🗹 |  |  |
| 4 | If the user enters an invalid value and clicks on the OK button (i.e. does not TAB off the field) is the invalid entry identified and highlighted correctly with an error message? |  | 🗹 |  |
| 5 | Is validation consistently applied at screen level unless specifically required at field level? |  | 🗹 |  |
| 6 | For all numeric fields check whether negative numbers can and should be able to be entered. | 🗹 |  |  |
| 7 | For all numeric fields check the minimum and maximum values and also some mid-range values allowable? | 🗹 |  |  |
| 8 | For all character/alphanumeric fields check the field to ensure that there is a character limit specified and that this limit is exactly correct for the specified database size? |  | 🗹 |  |
| 9 | Do all mandatory fields require user input? | 🗹 |  |  |
| 10 | If any of the database columns don’t allow null values then the corresponding screen fields must be mandatory. (If any field which initially was mandatory has become optional then check whether null values are allowed in this field.) | 🗹 |  |  |

### Submission Checklist

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Question | | Yes | No | N/A |
| TABLES AND FIGURES | | | | |
| 1 | Does every table column, including the stub column, have a heading? | 🗹 |  |  |
| 2 | Are all tables referred to in text? |  | 🗹 |  |
| 3 | Are the elements in the figures large enough to remain legible after the figure has been reduced to the width of a journal column or page? |  | 🗹 |  |
| 4 | Is lettering in a figure no smaller than 8 points and no larger than 14 points? |  | 🗹 |  |
| 5 | Are the figures being submitted in a file format acceptable to the publisher? |  | 🗹 |  |
| 6 | Has the figure been prepared at a resolution sufficient to produce a high-quality image? |  | 🗹 |  |
| 7 | Are all figures numbered consecutively with Arabic numerals? | 🗹 |  |  |
| 8 | Are all figures and tables mentioned in the text and numbered in the order in which they are mentioned? | 🗹 |  |  |
| REFERENCES | | | | |
| 1 | Are references cited both in text and in the reference list? |  | 🗹 |  |
| 2 | Do the text citations and reference list entries agree both in spelling and in date? |  | 🗹 |  |
| 3 | Are journal titles in the reference list spelled out fully? | 🗹 |  |  |
| 4 | Are the references (both in the parenthetical text citations and in the reference list) ordered alphabetically by the authors’ surnames? |  | 🗹 |  |
| 5 | Are inclusive page numbers for all articles or chapters in books provided in the reference list? |  | 🗹 |  |
| 6 | Are references to studies included in your meta-analysis preceded by an asterisk? |  | 🗹 |  |
| FORMAT | | | | |
| 1 | Have you checked the journal’s website for instructions to authors regarding specific formatting requirements for submission? | 🗹 |  |  |
| 2 | Is the entire manuscript—including quotations, references, author note, content footnotes, and figure captions—double-spaced? Is the manuscript neatly prepared? |  | 🗹 |  |
| 3 | Are the margins at least 1 in. (2.54 cm)? |  | 🗹 |  |
| 4 | Are the title pages, abstracts, references, appendices, content footnotes, tables, and figures on separate pages (with only one table or figure per page)? Are the figure captions on the same page as the figures? Are manuscript elements ordered in sequence, with the text pages between the abstract and the references? | 🗹 |  |  |
| 5 | Are all pages numbered in sequence, starting with the title page? | 🗹 |  |  |
| PARAGRAPHS AND HEADINGS | | | | |
| 1 | Is each paragraph longer than a single sentence but not longer than one manuscript page? | 🗹 |  |  |
| 2 | Do the levels of headings accurately reflect the organization of the paper? | 🗹 |  |  |
| 3 | Do all headings of the same level appear in the same format? | 🗹 |  |  |