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| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Output** | **Inter-test case Dependence** | **Result** | **Test Date** | **Note** |
|  | List roles |  |  |  |  |  |  |
|  | Steps 1. Navigate to Manage Bus screen | | | | | | |
|  | Add new bus. | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, input “Bus Plate Number” of new bus, select bus type from dropdown list.  3. Click button Save. | Popup “Add new Bus” is closed.  Manage Bus screen is reload and recent added bus is shown in the first row of bus grid. |  | Passed | 17/4/2013 |  |
|  | Add new bus: Validate Bus Plate number | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, click button Save. | Error message shown: “Please enter bus plate number!” |  | Passed | 17/4/2013 |  |
|  | Add new bus: Validate Bus Plate number | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, input “Bus Plate Number” of new bus which already existed in system, select bus type from dropdown list.  3. Click button Save.products | Error message shown: “Bus Plate number is existed!” |  | Passed | 17/4/2013 |  |
|  | Delete bus. | 1. Click button Delete in each row of table.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Bus is deleted successfully!” |  | Passed | 17/4/2013 |  |
|  | Delete bus: Delete bus that has trip(s) in the future. | 1. Click button Delete in each row of table to delete that bus.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Cannot delete this bus due to this bus has 5 trips in the future!” |  | Passed | 17/4/2013 |  |
|  | Delete bus: Delete bus that being assigned to a route. | 1. Click button Delete in each row of table.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Cannot delete this bus due to this bus is being assigned to route Hà Nội - TP. Hồ Chí Minh. Please unassign this bus and try again!” |  | Passed | 17/4/2013 |  |

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| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Output** | **Inter-test case Dependence** | **Result** | **Test Date** | **Note** |
|  | List roles |  |  |  |  |  |  |
|  | Steps 1. Navigate to Manage Segment screen | | | | | | |
|  | Edit segment duration. | 1. Click button Edit.  2. When popup “Edit segment” showed, select valid from date of new duration, input new duration.  3. Click button Save. | Popup “Edit segment” is closed.  Manage Segment screen is reloaded. |  | Passed | 17/4/2013 |  |
|  | Edit segment duration: Duration is lesser than minimum duration. | 1. Click button Edit.  2. When popup “Edit segment” showed, select valid from date of new duration, input new duration with value lesser than 1hour.  3. Click button Save. | Duration text box is highlight by red.  Error message is displayed: “Duration should not lesser than 1 hour.” |  | Passed | 17/4/2013 |  |

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| **ID** | **Test Case Description** | **Test Case Procedure** | **Expected Output** | **Inter-test case Dependence** | **Result** | **Test Date** | **Note** |
|  | List roles |  |  |  |  |  |  |
|  | Steps 1. Navigate to Manage Route screen | | | | | | |
|  | Display route in grid. | Navigate to Manage Route screen. | Button “Activate” is display in inactive routes.  Button “Deactivate” is display in active routes. |  | Passed | 17/4/2013 |  |
|  | Add new route. | 1. Click button Add New Route.  2. When popup “Add New Route” showed, input following information:  - Start At (2 dropdown lists): The first dropdown list is start city of segment; the second is start station of segment.  - End At (2 dropdown lists): The first dropdown list is end city of segment; the second is end station of segment.  - Duration (text box) duration of segment.  3. Click button Add.  4. Click button Save.  5. When popup “Add Route result” shown, click button OK. | Popup “Add new Route” is closed.  Popup “Add Route result” is shown: “New Route saved successfully!”  Manage Route screen is reloaded and 2 new routes is shown in the routes grid. |  | Passed | 17/4/2013 |  |
|  | Add new route: Add existed segment into new route. | 1. Click button Add New Route.  2. When popup “Add New Route” showed, input segment information which is already existed in system. | Right after input End station of segment, text box Duration is auto filled with the existed segment’s duration and then disabled. |  | Passed | 17/4/2013 |  |
|  | Add new bus: Add existed route. | 1. Click button Add New Route.  2. When popup “Add New Route” showed, input segments information, the list segments inputted is duplicated with a route in system.  3. Click button Save. | Popup “Add new Route” is closed.  If the existed route is active. Popup “Add Route result” is shown: “Route existed! Please verify again!”  If the existed route is active. Popup “Add Route result” is shown: “Existed route is re-activated successfully!” |  | Passed | 17/4/2013 |  |
|  | Deactivate Route: deactivate route which doesn’t have any trips. | 1. Click button Deactivate in each row of table. | Manage route screen reload; route and its reverse route are deleted from the route grid. |  | Passed | 17/4/2013 |  |
|  | Deactivate Route: deactivate route which has at least one trip in the pass and has no trip in the future. | 1. Click button Deactivate in each row of table. | Delete route result shown: “Route Hải Phòng - Thanh Hoá and route Thanh Hoá - Hải Phòng are deleted successfully! All buses belong to these routes are unassigned successfully!”  Manage route screen reload; The route grid shows the route and its reverse route are deactivated. |  | Passed | 17/4/2013 |  |
|  | Deactivate Route: deactivate route which has at least one trip in the future. | 1. Click button Deactivate in each row of table. | Delete route result shown: “Cannot delete this route due to this route has 12 available trip(s) depend on it”  Manage route screen reload. |  | Passed | 17/4/2013 |  |
|  | Manage Route details loading screen: Route is active and does not have any bus. | 1. Select a route in screen Manage Route and click button “View details” | Button “Add new Schedule” is disabled.  Button “Edit route” is displayed. |  | Passed | 17/4/2013 |  | |
|  | Manage Route details loading screen: Route is active and has at least 1 bus. | 1. Select a route in screen Manage Route and click button “View details” | Button “Add new Schedule” is enabled.  Button “Edit route” is hide. |  | Passed | 17/4/2013 |  | |
|  | Manage Route details loading screen: Route is inactive. | 1. Select a route in screen Manage Route and click button “View details” | Buttons “Edit route price”, “Assign Bus to route”, “Add new Schedule” are enabled.  Button “Edit route” is hide. |  | Passed | 17/4/2013 |  | |
|  | View route duration and price by Bus type. | 1. Select Bus type in dropdown list bus type. | Column Price in segment grid is reloaded and shows price of route by following bus type. |  | Passed | 17/4/2013 |  | |
|  | View route duration and price by Bus type. | 1. Select Date time in date time picker. | Column Duration and Price in segment grid are reloaded and show duration price of route by following bus type and date time. |  | Passed | 17/4/2013 |  | |
|  | Edit Price of route: Only edit current route. | 1. Click on button Edit route price.  2. Popup “Edit route Price” is shown and column Price is prefilled with price base on Valid date and Bus type.  3. Edit price of each segment.  4. Click button Save. | Popup “Edit route Price” is closed.  Route detail list screen is reloaded.  Choose the bus type and valid date to view the edited price. |  | Passed | 17/4/2013 |  | |
|  | Edit Price of route: Edit price of current route and its reverse route. | 1. Click on button Edit route price.  2. Popup Edit route Price is shown and column Price is prefilled with price base on Valid date and Bus type.  3. Edit price of each segment.  4. Click on check box: “Add price for reverse route too?”  5. Click button Save. | Popup Edit route Price is closed.  Route detail list screen is reloaded.  Choose the bus type and valid date to view the edited price.  Click button “Show the reverse route” and choose the bus type and valid date to view the edited price. |  | Passed | 17/4/2013 |  | |
|  | Edit Price of route: Invalid input value ‘0’ or blank. | 1. Click on button Edit route price.  2. Popup Edit route Price is shown and column Price is prefilled with price base on Valid date and Bus type.  3. Edit one price by value ‘0’.  4. Leave one price blank.  5. Click button Save. | 2 invalid input fields are highlighted by red. |  | Passed | 17/4/2013 |  | |
|  | Assign bus to route: Display bus list. | 1. Click button Assign bus to route. | If the bus has at least 1 trip in the future, button Delete is disabled. |  | Passed | 17/4/2013 |  | |
|  | Steps 1. Navigate to Manage Bus screen | | | | | | | |
|  | Add new bus. | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, input “Bus Plate Number” of new bus, select bus type from dropdown list.  3. Click button Save. | Popup “Add new Bus” is closed.  Manage Bus screen is reload and recent added bus is shown in the first row of bus grid. |  | Passed | 17/4/2013 |  | |
|  | Add new bus: Validate Bus Plate number | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, click button Save. | Error message shown: “Please enter bus plate number!” |  | Passed | 17/4/2013 |  | |
|  | Add new bus: Validate Bus Plate number | 1. Click button Add New Bus.  2. When popup “Add New Bus” showed, input “Bus Plate Number” of new bus which already existed in system, select bus type from dropdown list.  3. Click button Save.products | Error message shown: “Bus Plate number is existed!” |  | Passed | 17/4/2013 |  | |
|  | Delete bus. | 1. Click button Delete in each row of table.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Bus is deleted successfully!” |  | Passed | 17/4/2013 |  | |
|  | Delete bus: Delete bus that has trip(s) in the future. | 1. Click button Delete in each row of table to delete that bus.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Cannot delete this bus due to this bus has 5 trips in the future!” |  | Passed | 17/4/2013 |  | |
|  | Delete bus: Delete bus that being assigned to a route. | 1. Click button Delete in each row of table.  2. When Delete confirm popup shown, click button Delete. | Delete confirm popup is closed.  Popup Delete Result is shown message: “Cannot delete this bus due to this bus is being assigned to route Hà Nội - TP. Hồ Chí Minh. Please unassign this bus and try again!” |  | Passed | 17/4/2013 |  | |
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|  | Assign bus to route. | 1. Click button Assign bus to route.  2. When popup “List buses in route” is shown, select bus type.  4. When the “Select bus” dropdown list is reloaded, select a bus and click button “Add”.  5. New bus is added into bus grid.  6. Click button “Save”. | Bus is assigned into route. |  | Passed | 17/4/2013 |  | |
|  | Assign bus to route: Delete bus from list. | 1. Click button Assign bus to route.  2. When popup “List buses in route” is shown, click on “Delete” button to delete that bus from route. | Bus is removed from list.  Bus Plate number is displayed in bus dropdown list. |  | Passed | 17/4/2013 |  | |
|  | Assign bus to route: Dropdown list bus is empty. | 1. Click button “Assign bus to route”.  2. Click button “Add” bus until the dropdown list is empty. | Message shown: “There is no free bus at the moment!” |  | Passed | 17/4/2013 |  | |
|  | Add new schedule. | 1. Click button “Add new Schedule”.  2. When popup “Add new Schedule” shown:  - Select From date in date time picker  - Select bus type in dropdown list  - Select bus plate number in dropdown list  3. Click button “Save Changes”. | Popup “Add new Schedule” is closed.  Manage Route details screen is reloaded and recent added schedule shown in schedule list. |  | Passed | 17/4/2013 |  | |
|  | Add new schedule: No available bus to create schedule. | 1. Click button “Add new Schedule”.  2. When popup “Add new Schedule” shown, input From date and bus type information that don’t have any bus available for that. | Error message displayed: “There is no bus available at this time. Please select other time or click cancel!” |  | Passed | 17/4/2013 |  | |
|  | Add new schedule: Set auto-return to start station. | 1. Click button “Add new Schedule”.  2. When popup “Add new Schedule” shown:  - Select From date in date time picker  - Select bus type in dropdown list  - Select bus plate number in dropdown list  3. Check the checkbox “Set auto-return to start station”.  4. Select From date to return the bus.  3. Click button “Save Changes”. | Popup “Add new Schedule” is closed.  Manage Route details reload and recent added schedule shown in schedule list.  Add new schedule success for the recent bus which has From date bigger than To date of the return schedule. |  | Passed | 17/4/2013 |  | |
|  | Show the reverse route | 1. Click button “Show the reverse route”. | The reverse route details screen is shown. |  | Passed | 17/4/2013 |  | |