

Bus User Support System

Architecture Design

**Project Code: BUSS**

**Document Code: BUSS\_ Screen Design\_v1.0\_EN**

**Ha Noi, 29/06/2015**

Record of change

\*A - Added M - Modified D – Deleted

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Effective Date** | **Changed Items** | **A\* M, D** | **Change Description** | **New Version** |
| 29/06/2015 | Screen design | A | Create this document | v1.0 |
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|  |  |  |  |  |

**Signature page**

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# Introduction

## Purpose

## Definitions, Acronyms and Abbreviations

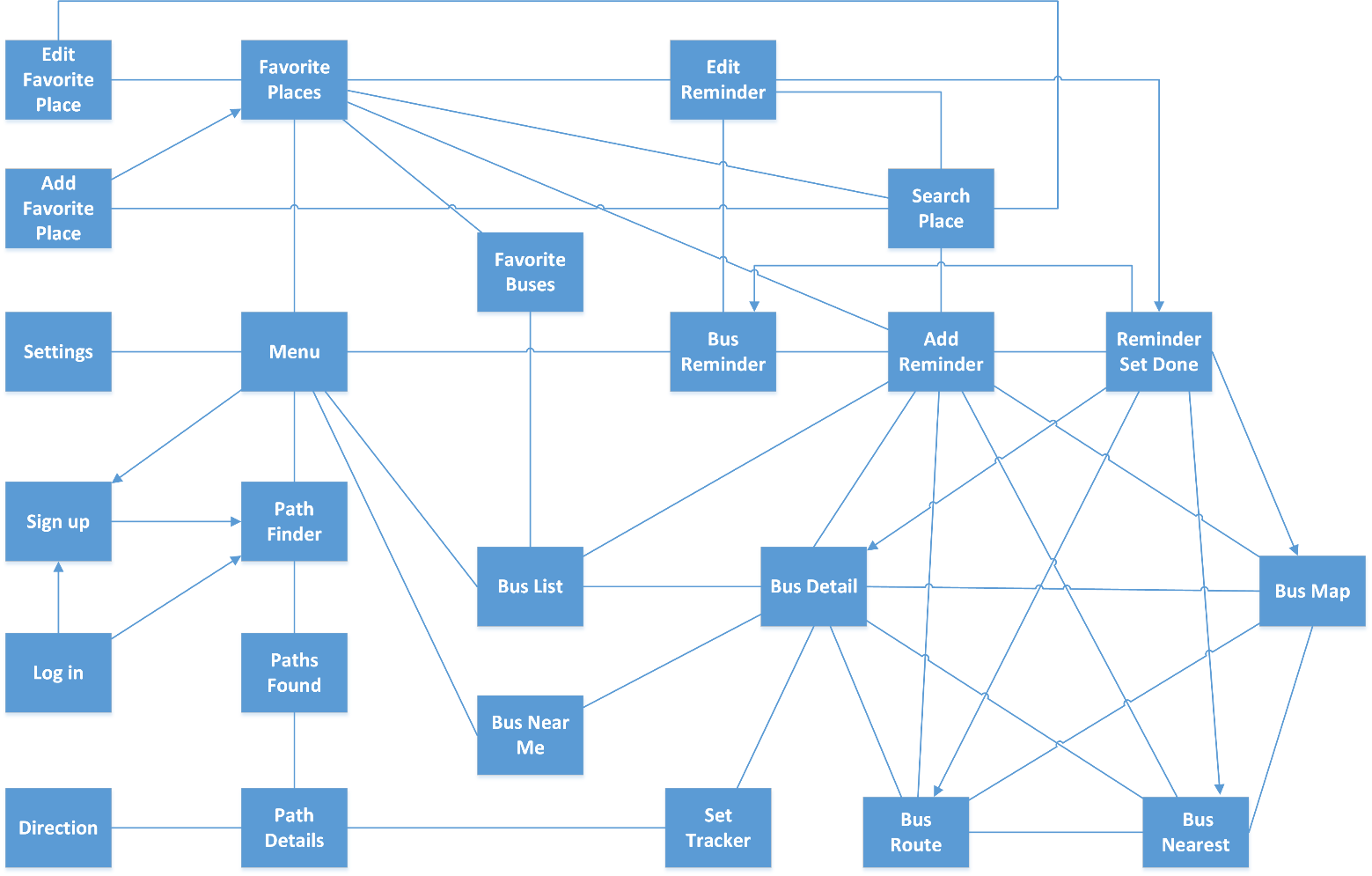
|  |  |  |
| --- | --- | --- |
| Abbreviations | Description | Comment |
| BUSS | Bus User Support System |  |
| BU | Bus user |  |
| Q&A | Question and answer |  |
|  |  |  |

1. **Definition and Acronyms**

## Overview

# 

# Screen Flow



1. **System flow**

|  |  |  |
| --- | --- | --- |
| No | Screen Name | Description |
| 1 | Log in | Log in |
| 2 | Sign up | Sign up account |
| 3 | Settings | Settings |
| 4 | Menu | Menu |
| 5 | Bus List | Bus route list |
| 6 | Bus Detail/ Info | Bus route details/info |
| 7 | Bus Route | Display all the bus-stops of the chosen bus route |
| 8 | Bus Nearest | Display nearest buses of the chosen bus route |
| 9 | Bus Map | Display the chosen bus route on map |
| 10 | Set Tracker | Set tracker to notify BU to leave when the bus comes near the predefined stop |
| 11 | Bus Near Me | Display all nearest bus |
| 12 | Path Finder | Find path and all buses which belong to that path |
| 13 | Paths Found | Results of finding path |
| 14 | Path Detail | Details of the chosen path |
| 15 | Directions | Step-by-step giving users detailed directions |
| 16 | Bus Reminder | Lists of bus reminders which will reminder BU when the predefined bus is up to comes to the chosen bus-stop |
| 17 | Add Reminder | Add reminder |
| 18 | Edit Reminder | Edit reminder |
| 19 | Reminder Set Done | Reminder Set Done |
| 20 | Favorite Places | Lists of favorite places |
| 21 | Search place | Search place |
| 22 | Add Favorite Place | Add favorite place |
| 23 | Edit Favorite Place | Edit Favorite Place |
| 24 | Favorite Buses | List of favorite buses |

1. **Screen List**

## Log In



1. **Log in screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Email | Email | Text field | Text | Y | 100 | User inputs email |
| 2 | Password | Mật khẩu | Text field | Text | Y | 50 | User inputs password |
| 3 | Log in | Đăng nhập | Button | Click | Y |  | User taps on Sign in button |
| 4 | Sign up now | Đăng ký | Button | Click | Y |  | User taps on Sign up now button |

1. **Log In screen’s description**

## Sign Up

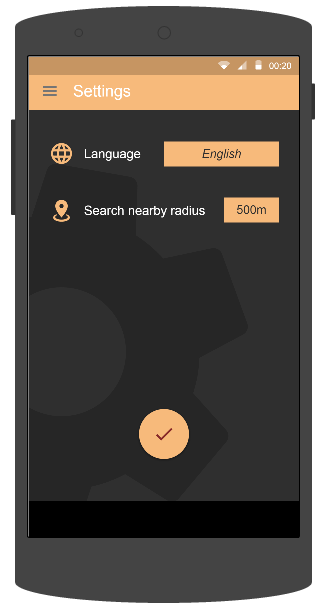


1. **Sign up screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Avatar | Ảnh đại diện | Button | Click | Y |  | User taps Avatar button to add use’s avatar. |
| 1 | Email | Email | Text field | Text | Y | 255 | User inputs email |
| 2 | Password | Mật khẩu | Text field | Password | Y | 50 | User inputs password that only contains number and character |
| 3 | Confirm password | Xác nhận mật khẩu | Text field | Text | Y | 50 | User inputs password again |
| 4 | Accept | Chấp nhận | Button | Click | Y |  | User taps on Accept button |

1. **Sign Up screen’s description**

## Settings



1. **Settings screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Language | Ngôn ngữ | Drop down list | Click | Y |  | User taps Language dropdown list to choose a language |
| 2 | Search nearby range | Phạm vi tìm kiếm buýt xung quanh | Drop down list | Click | Y |  | User taps Search nearby range dropdown list to choose range |

1. **Settings screen’s description**

## Menu

## Bus List



1. **Bus List screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Bus route | Tuyến xe buýt | List item | Click | Y |  | User taps on Skip button |
| 2 | Search | Tìm kiếm | Button | Click | Y |  | User taps on Search button |
| 3 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |

1. **Bus List screen’s description**

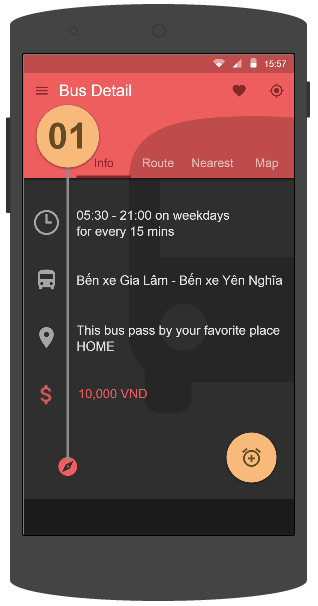


1. **Bus List screen (Search status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Bus route | Tuyến xe buýt | List item | Click | Y |  | User taps on Skip button |
| 2 | Search | Tìm kiếm | Button | Click | Y |  | User taps on Search button |
| 3 | Search Text Field | Khung tìm kiếm | Text field | Text | Y | 255 | User inputs their key word they want to search with length less than 255 characters |
| 4 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 5 | Back | Quay lại | Button | Click | Y |  | User taps on Back button |

1. **Bus List screen’s description**

## Bus Detail/ Info



1. **Bus Detail/ Info screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Info | Thông tin | Tab | Click | Y |  | User taps on Info tab |
| 2 | Route | Tuyến đường | Tab | Click | Y |  | User taps on Route tab |
| 3 | Nearest | Gần nhất | Tab | Click | Y |  | User taps on Nearest tab |
| 4 | Map | Bản đồ | Tab | Click | Y |  | User taps on Map button |
| 5 | Favorite | Yêu thích | Button | Click | Y |  | User taps on Favorite button |
| 6 | Tracker | Theo dõi | Button | Click | Y |  | User taps on Track button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 8 | Add Reminder | Thêm nhắc nhở | Button | Click | Y |  | User taps on Add Reminder button |

1. **Bus Detail/ Info screen’s description**

## Bus Route

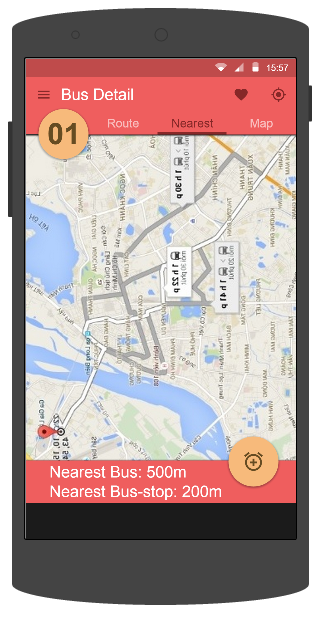


1. **Bus Route screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Info | Thông tin | Tab | Click | Y |  | User taps on Info tab |
| 2 | Route | Tuyến đường | Tab | Click | Y |  | User taps on Route tab |
| 3 | Nearest | Gần nhất | Tab | Click | Y |  | User taps on Nearest tab |
| 4 | Map | Bản đồ | Tab | Click | Y |  | User taps on Map button |
| 5 | Favorite | Yêu thích | Button | Click | Y |  | User taps on Favorite button |
| 6 | Tracker | Theo dõi | Button | Click | Y |  | User taps on Track button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |

1. **Bus Route screen’s description**

## Bus Nearest

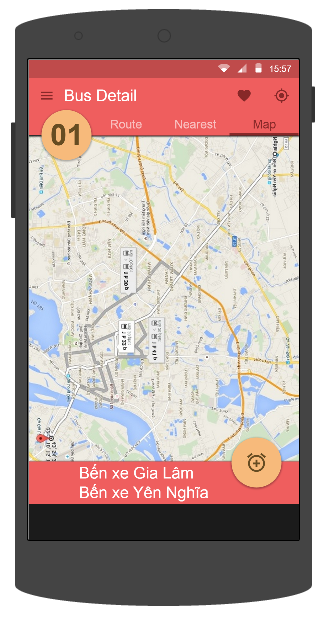


1. **Bus Nearest screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Info | Thông tin | Tab | Click | Y |  | User taps on Info tab |
| 2 | Route | Tuyến đường | Tab | Click | Y |  | User taps on Route tab |
| 3 | Nearest | Gần nhất | Tab | Click | Y |  | User taps on Nearest tab |
| 4 | Map | Bản đồ | Tab | Click | Y |  | User taps on Map button |
| 5 | Favorite | Yêu thích | Button | Click | Y |  | User taps on Favorite button |
| 6 | Tracker | Theo dõi | Button | Click | Y |  | User taps on Track button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 8 | Add Reminder | Thêm nhắc nhở | Button | Click | Y |  | User taps on Add Reminder button |

1. **Bus Nearest screen’s description**

## Bus Map

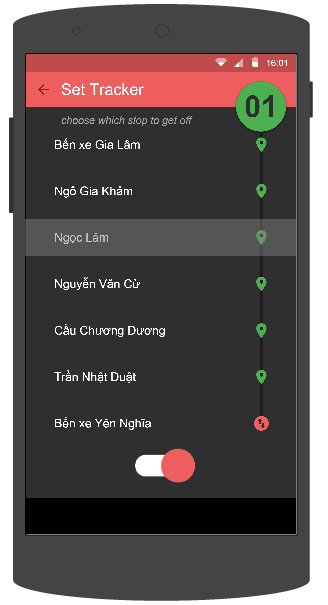


1. **Bus Map screen**

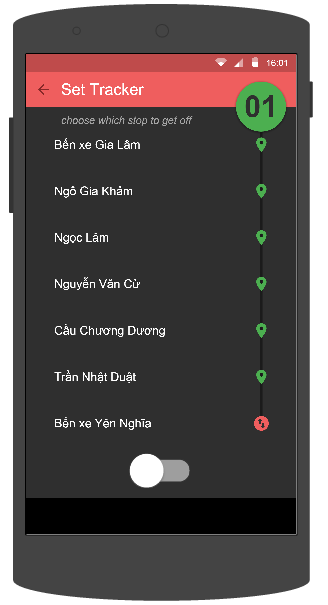
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Info | Thông tin | Tab | Click | Y |  | User taps on Info tab |
| 2 | Route | Tuyến đường | Tab | Click | Y |  | User taps on Route tab |
| 3 | Nearest | Gần nhất | Tab | Click | Y |  | User taps on Nearest tab |
| 4 | Map | Bản đồ | Tab | Click | Y |  | User taps on Map button |
| 5 | Favorite | Yêu thích | Button | Click | Y |  | User taps on Favorite button |
| 6 | Tracker | Theo dõi | Button | Click | Y |  | User taps on Track button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 8 | Add Reminder | Thêm nhắc nhở | Button | Click | Y |  | User taps on Add Reminder button |

1. **Bus Map screen’s description**

## Set Tracker



1. **Set Tracker screen**



1. **Set Tracker screen (Cancel Tracker status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Track | Theo dõi | Switch | Click | Y |  | User taps on Track switch |
| 2 | Reverse | Đảo chiều | Button | Click | Y |  | User taps on Revert button to reverse direction |
| 3 | Bus stop | Trạm dừng | List item | Click | Y |  | User taps on Bus stop item to choose where to stop. |
| 2 | Back | Quay lại | Button | Click | Y |  | User taps on Back button to go back |

1. **Set Tracker screen’s description**

## Bus Near Me



1. **Bus Near Me screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Menu | Danh sách | Button | Click | Y |  | User taps Menu button |
| 2 | Bus route | Tuyến buýt | Button | Click | Y |  | User taps Bus route button |
| 3 | Bus | Buýt | Icon | Click | Y |  | User taps Bus icon on map |

1. **Bus Near Me screen’s description**

## Path Finder



1. **Path Finder screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | From | Từ | Text field | Text | Y | 255 | User inputs their position or the place they start to go with less than 255 characters. |
| 2 | To | Đến | Text field | Text | Y | 255 | User inputs the place they want to go with less than 255 characters. |
| 3 | Reverse | Đảo chiều | Button | Click | Y |  | User taps on Reverse button |
| 4 | Search | Tìm kiếm | Button | Click | Y |  | User taps on Search button |
| 5 | Get current location | Lấy vị trí hiện tại | Button | Click | Y |  | User taps on Get current location button |
| 6 | Map | Bản đồ | Tab | Click | Y |  | User taps on Map tab |
| 7 | History | Lịch sử | Tab | Click | Y |  | User taps on History tab |
| 8 | Favorite | Yêu thích | Tab | Click | Y |  | User taps on Favorite tab |
| 9 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |

1. **Find Path screen’s description**

## Paths Found



1. **Paths Found screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Reverse | Đảo chiều | Button | Click | Y |  | User taps on Reverse button |
| 2 | Shortest | Quãng đường ngắn nhất | Tab | Click | Y |  | User taps on Shortest tab |
| 3 | Least Exc | Chuyển tuyến ít nhất | Tab | Click | Y |  | User taps on Least Exc tab |
| 4 | Least Walk | Đi bộ ít nhất | Tab | Click | Y |  | User taps on Least Walk tab |
| 5 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |

1. **Paths Found screen’s description**

## Path Details



1. **Path Details screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Track | Theo dõi | Button | Click | Y |  | User taps on Track button |
| 2 | Bus | Buýt | Icon | Click | Y |  | User taps Bus icon displaying on map |
| 3 | Arrow up | Mũi tên đi lên | Button | Click | Y |  | User taps on Arrow up button |
| 4 | Arrow down | Mũi tên đi xuống | Button | Click | Y |  | User taps on Arrow down button |
| 5 | Path detail | Chi tiết đường đi | List item |  |  |  |  |
| 6 | Navigate | Chỉ đường | Button | Click | Y |  | User taps on Navigate button |
| 7 | Back | Quay lại | Button | Click | Y |  | User taps on Back button |

1. **Path Details screen’s description**



1. **Path Details 2 screen**

## Directions



1. **Directions screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Back | Quay lại | Button | Click | Y |  | User taps on Back button |

1. **Directions screen’s description**

## Bus Reminder



1. **Bus Reminder screen (Unsuspend all status)**



1. **Bus Reminder screen (Suspend all status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Add | Thêm | Button | Click | Y |  | User taps on Add button |
| 2 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 3 | Suspend all | Ngừng tất cả | Switch | Click | Y |  | User taps on Suspend all switch |
| 4 | Reminder | Nhắc nhở | List item | Click | Y |  | User taps on Reminder item |
| 5 | Suspend | Ngừng | Switch | Click | Y |  | User taps on Suspend switch |

1. **Bus Reminder screen’s description**

## Add Reminder



1. **Add Reminder screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Bus route | Tuyến buýt | Button | Click | Y |  | User taps on Bus route button |
| 2 | Clock | Báo thức | Button | Click | Y |  | User taps on Clock button |
| 3 | Departure | Điểm đi | Drop down list | Click | Y |  | User taps Departure drop down list |
| 4 | Direction | Hướng | Drop down list | Click | Y |  | User taps Direction drop down list |
| 5 | Recurrence | Lặp lại | Button | Click | Y |  | User taps Recurrece (dates) buttons |
| 6 | Reminder distance | Khoảng cách nhận thông báo | Drop down list | Click | Y |  | User taps Reminder distance drop down list |
| 7 | Add Reminder | Thêm | Button | Click | Y |  | User taps on Add button to add reminder |
| 8 | Back | Quay lại | Button | Click | Y |  | User taps on Back button to go back |

1. **Add Reminder screen’s description**

## Edit Reminder



1. **Edit Reminder screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Bus route | Tuyến buýt | Button | Click | Y |  | User taps on Bus route button |
| 2 | Clock | Báo thức | Button | Click | Y |  | User taps on Clock button |
| 3 | Departure | Điểm đi | Drop down list | Click | Y |  | User taps Departure drop down list |
| 4 | Direction | Hướng | Drop down list | Click | Y |  | User taps Direction drop down list |
| 5 | Recurrence | Lặp lại | Button | Click | Y |  | User taps Recurrece (dates) buttons |
| 6 | Reminder distance | Khoảng cách nhận thông báo | Drop down list | Click | Y |  | User taps Reminder distance drop down list |
| 7 | Save | Lưu | Button | Click | Y |  | User taps on Save button |
| 8 | Delete | Xóa | Button | Click | Y |  | User taps on Delete button |
| 9 | Back | Quay lại | Button | Click | Y |  | User taps on Back button to go back |

1. **Edit Reminder screen’s description**

## Reminder Set Done



1. **Reminder Set Done screen (Add reminder status)**



1. **Reminder Set Done screen (Edit Reminder status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Done | Xong | Button | Click | Y |  | User taps on Done button |
| 2 | Add other reminder | Thêm nhắc nhở khác | Button | Click | Y |  | User taps on Add other reminder button |

1. **Reminder Set Done screen’s description**

## Favorite Places



1. **Favorite Places screen**



1. **Favorite Places screen (Search status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Add | Thêm | Button | Click | Y |  | User taps on Add button |
| 2 | Delete | Xóa | Button | Click | Y |  | User taps on Delete button |
| 3 | Favorite place | Địa điểm yêu thích | List item | Click | Y |  | User taps on Favorite place item to edit |
| 4 | Places | Địa điểm | Tab | Click | Y |  | User taps on Places tab item |
| 5 | Buses | Buýt | Tab | Click | Y |  | User taps on Buses tab item |
| 6 | Search | Tìm kiếm | Button | Click | Y |  | User taps on Search button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 8 | Search Text | Khung tìm kiếm | Text | Text | Y | 255 | User inputs their key word they want to search with length less than 255 characters |
| 9 | Remove all text | Xóa hết chữ | Button | Click | Y |  | User taps on Remove all text button |

1. **Favorite Places screen’s description**

## Search Place



1. **Search Place screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Input place | Nhập địa điểm | Text | Text | Y | 255 | User inputs the place they want to search with the length less than 255 characters |
| 2 | Back | Quay lại | Button | Click | Y |  | User taps on Back button to go back |
| 3 | Confirm | Xác nhận | Button | Click | Y |  | User taps on Confirm button |
| 4 | Current location | Vị trí hiện tại | Button | Click | Y |  | User taps on Current location button |

1. **Search Place screen’s description**

## Add Favorite Place



1. **Add Favorite Place screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Choose icon | Chọn biểu tượng | Button | Click | Y |  | User taps on Choose icon button |
| 2 | Name alias | Tên bí danh | Text field | Text | Y | 50 | User inputs “Name alias” text field. |
| 3 | Location | Địa điểm | Text |  |  |  |  |
| 4 | Edit location | Thay đổi địa điểm | Button | Click | Y |  | User taps “Edit location” button |
| 5 | Done | Hoàn tất | Button | Click | Y |  | User taps “Done” button |

1. **Add Favorite Place screen’s description**

## Edit Favorite Place



1. **Edit Favorite Place screen**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Choose icon | Chọn biểu tượng | Button | Click | Y |  | User taps on Choose icon button |
| 2 | Name alias | Tên bí danh | Text field | Text | Y | 50 | User inputs “Name alias” text field. |
| 3 | Location | Địa điểm | Text |  |  |  |  |
| 4 | Edit location | Thay đổi địa điểm | Button | Click | Y |  | User taps “Edit location” button |
| 5 | Done | Hoàn tất | Button | Click | Y |  | User taps “Done” button |

1. **Edit Favorite Place screen’s description**

## Favorite Buses



1. **Favorite Buses screen**



1. **Favorite Buses screen (Search status)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Field name** | **Field name in Vietnamese** | **Type** | **Require** | **Mandatory** | **Length** | **Description** |
| 1 | Add | Thêm | Button | Click | Y |  | User taps on Add button |
| 2 | Delete | Xóa | Button | Click | Y |  | User taps on Delete button |
| 3 | Favorite bus | Địa điểm yêu thích | List item | Click | Y |  | User taps on Favorite bus item to edit |
| 4 | Places | Địa điểm | Tab | Click | Y |  | User taps on Places tab item |
| 5 | Buses | Buýt | Tab | Click | Y |  | User taps on Buses tab item |
| 6 | Search | Tìm kiếm | Button | Click | Y |  | User taps on Search button |
| 7 | Menu | Danh sách | Button | Click | Y |  | User taps on Menu button |
| 6 | Search Text | Khung tìm kiếm | Text | Text | Y | 255 | User inputs their key word they want to search with length less than 255 characters |

1. **Favorite Buses screen’s description**

# Other considerations

**N/A**