

FPT UNIVERSITY

Capstone Project Document

DIRECTION LENS

Report #6 - User's Manual Documents

Direction Lens		
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1 INSTALLATION GUIDE

1.1 Purposes

Contents in this section are introduction guide-lines step by step to use Direction Lens application, and set up its own database.

1.2 Environments

Following are the software required to start the DLs System:

- Operating System: Windows 7 (32/64 bits)
- Application server: IIS 7, XAMPP 1.8.2. DLs application system requires an application server running on Windows 7
- Browsers: Firefox 20, Chrome 25 or higher.
- Smartphone: Android OS version 2.3 or higher
- Framework: .NET 4.5
- Database: MySQL 5.6.9 or higher
- Java JDK 1.7.0
- Tool: Eclipse Indigo SR1, Visual studio 2012, PHPStorm 6.0.2

1.3 Application Installation

1.3.1 Set up Environments

- For web: If users want to use DLs system on personal computer, users need to install Chrome25 /Firefox 20/ IE9 or higher version and MySQL to create and store database.
- For mobile: Users can use DLs system on Smartphone support Android Os version 2.3 or higher.
- Tool development: Eclipse Indigo SR1 for android, Visual studio 2012 for android server, PhpStorm 6.0.2 for CMS of DLs
- Deployment environment for research: JDK 1.7
- Virtual server for research: IIS 7 for android service, XAMPP 1.8.2 for CMS

1.3.2 Database Creation

Please follow these steps to create a new database for system:

Step 1: Preparing database. We have a file Database, that's name: DB_DLs.sql

Step 2: Download and install SQLyog

To management easier, should use SQLyog, you can download and install them

Step 3: Connect to SQLyog

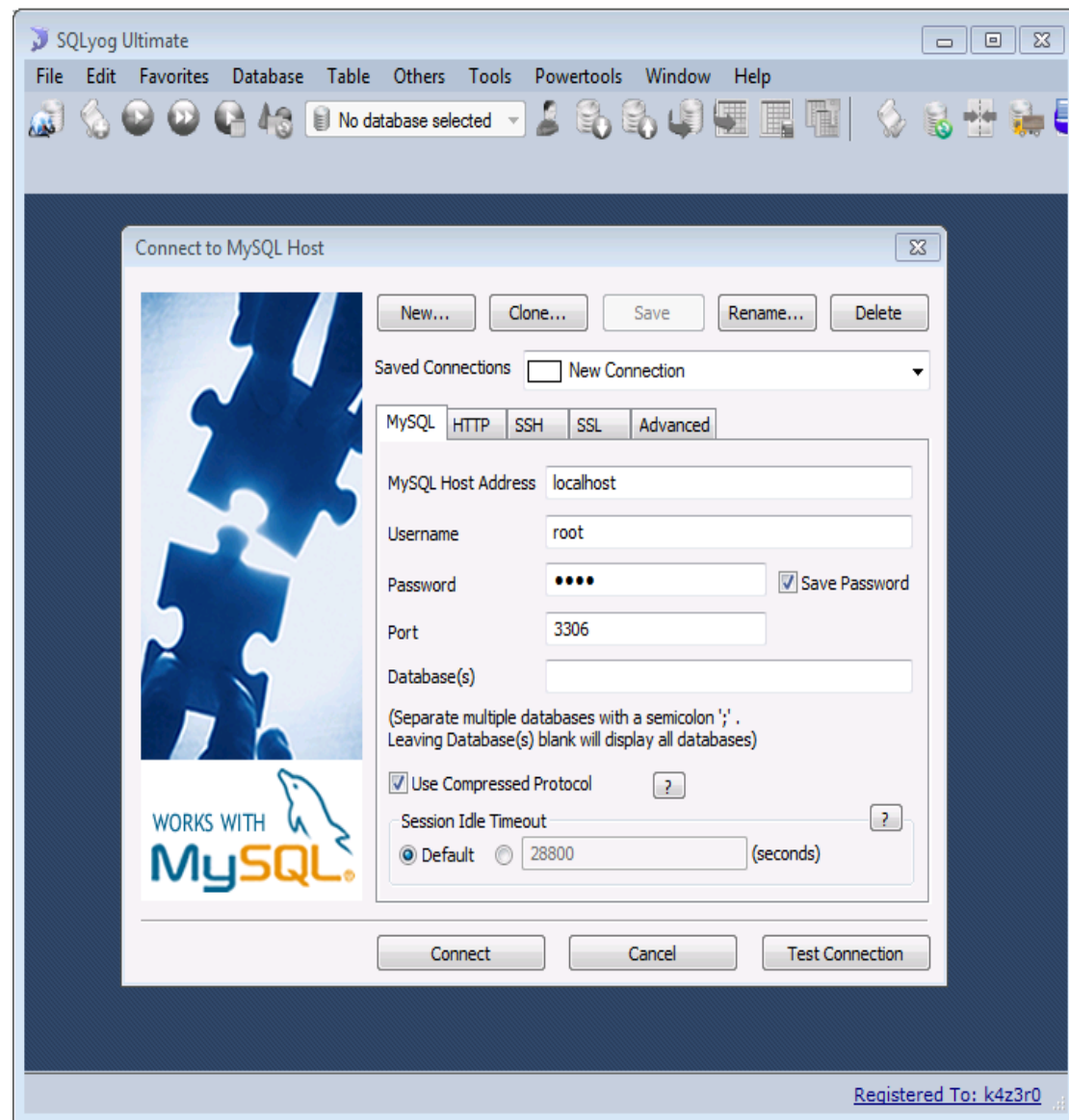


Figure 6-1: Use SQLyog for management easier

- MySQL host address, you should fill “Localhost”
- The next, Username: NAME_OF_DATABASE
- Password: YOUR_PASSWORD_FOR_DATABASE
- Port: PORT_TO_USE_MySQL
- After fill information, you click button “Connect”

Step 4: Open “DB_DLs.sql” file

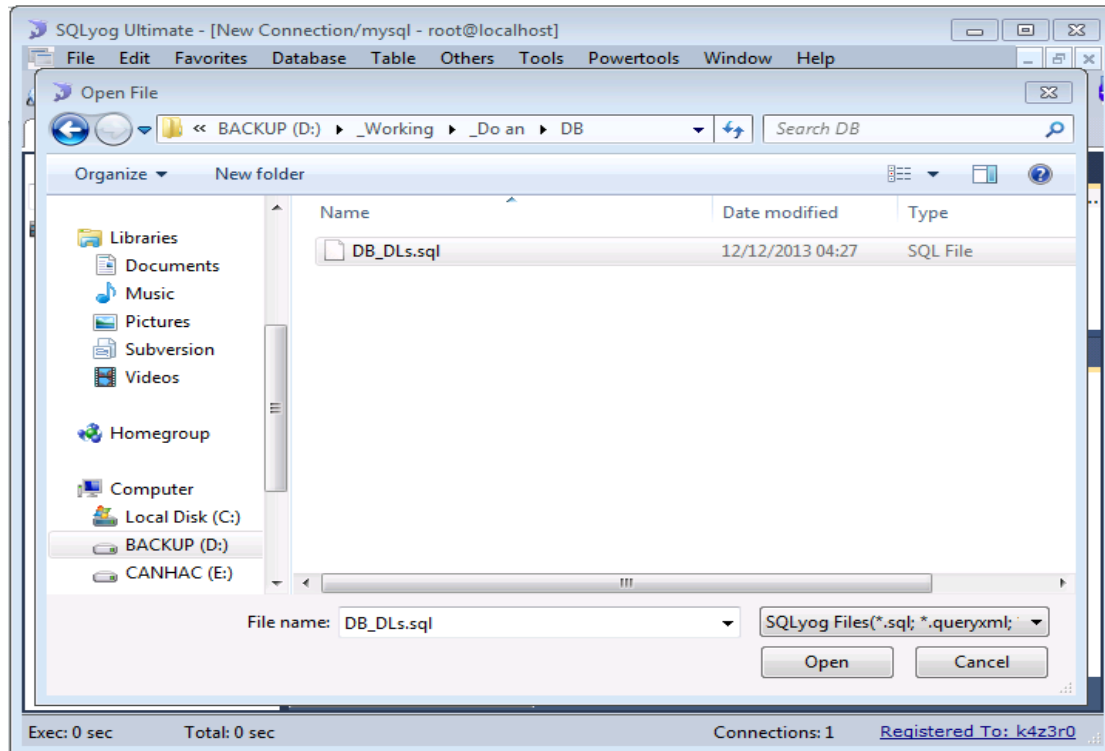


Figure 6-2: Open file “DB_DLs.sql”

After connect, you have to open DB_DLs.sql file and execute it

Step 5: Execute database

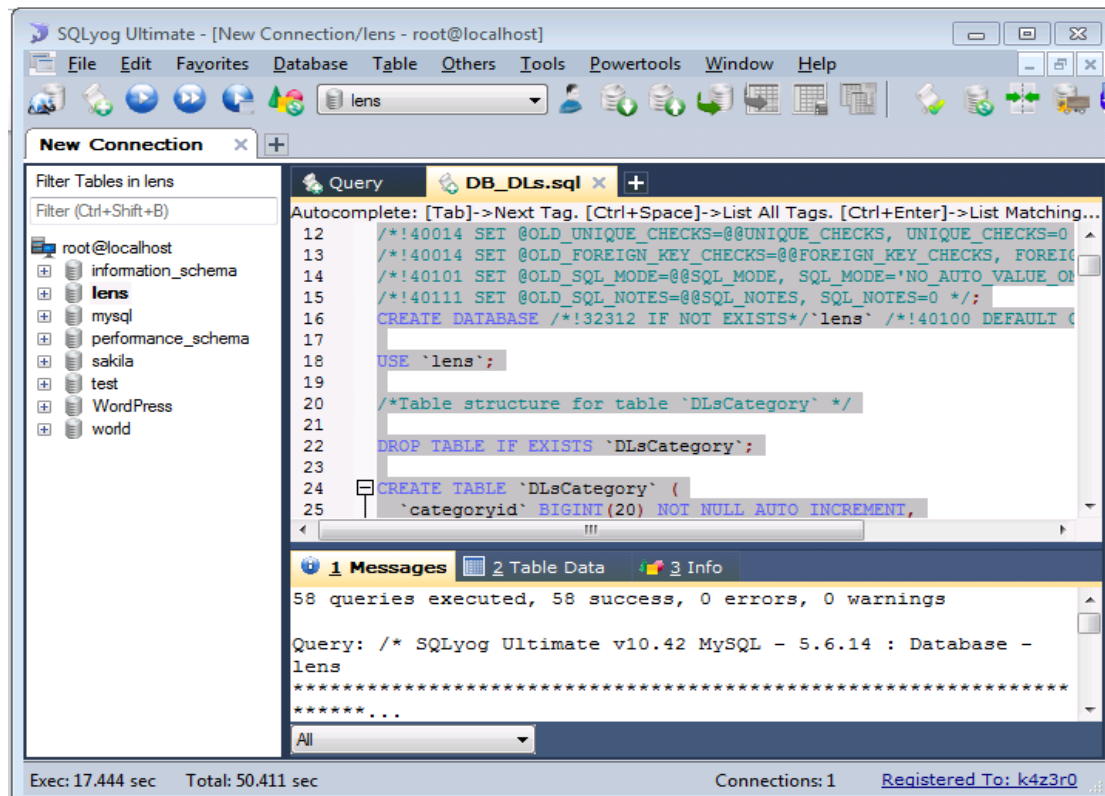


Figure 6-3: Execute “DB_DLs.sql” success

1.3.3 Deploy Web Application

Step 1: After you install XAMPP 1.8.2 you have to start Apache and MySQL

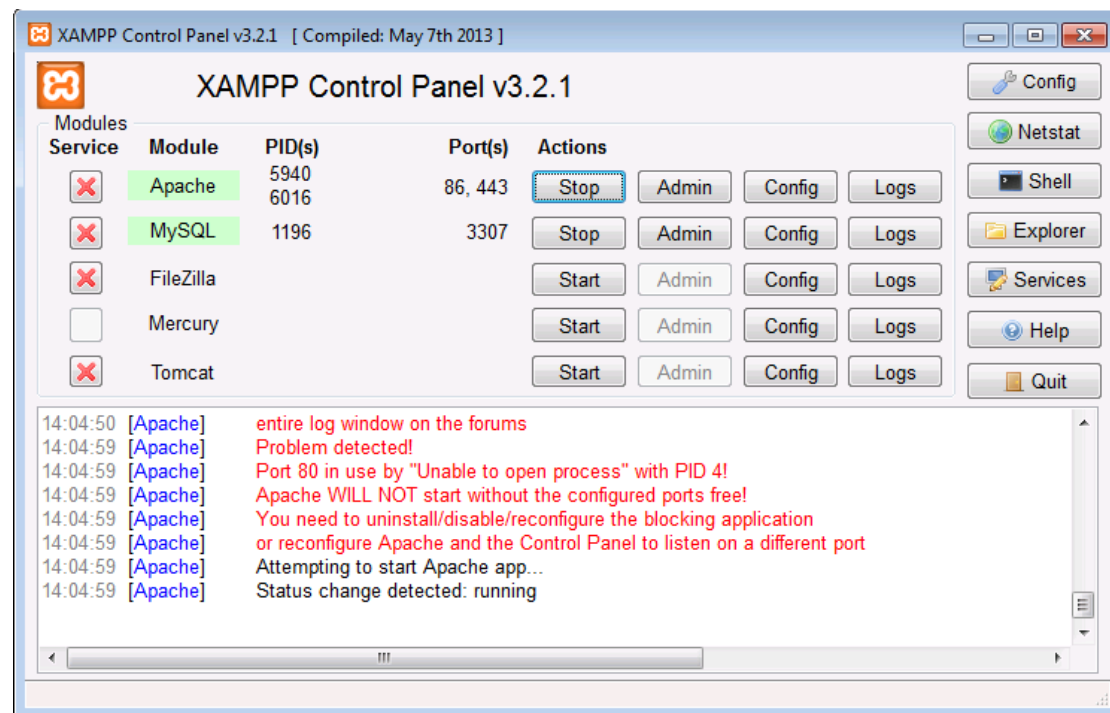


Figure 6-4: Start Apache and MySQL

Step 2: Config apache (httpd.conf)

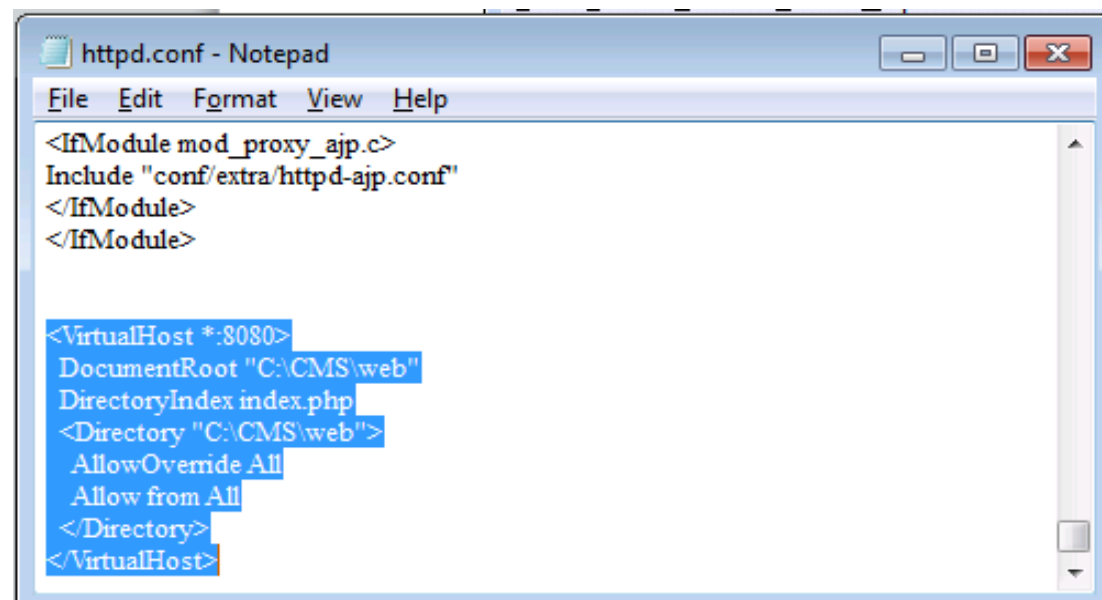


Figure 6-4: Config apache (httpd.conf)

Step 4: Run CMS

Open browser and enter format link: <http://localhost:8080>

1.3.4 Deploy Mobile Application

1.3.4.1 Deploy Android Application Service

Step 1: Add project Lens to IIS 7

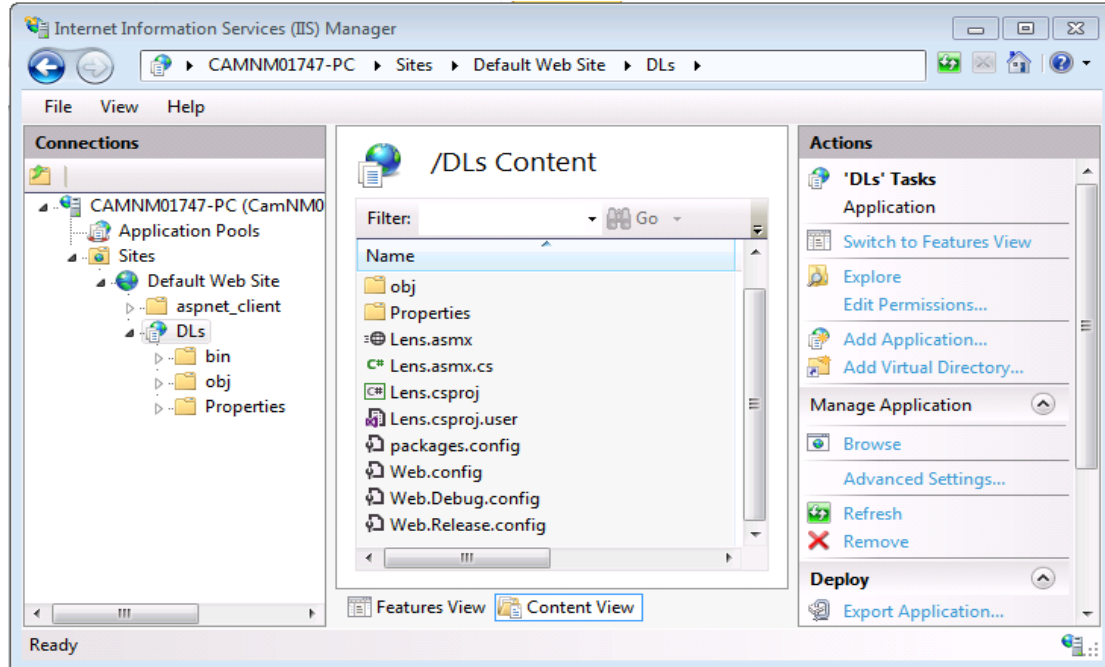


Figure 6-5: Make permission for project Lens

Step 2: Make permission for project Lens

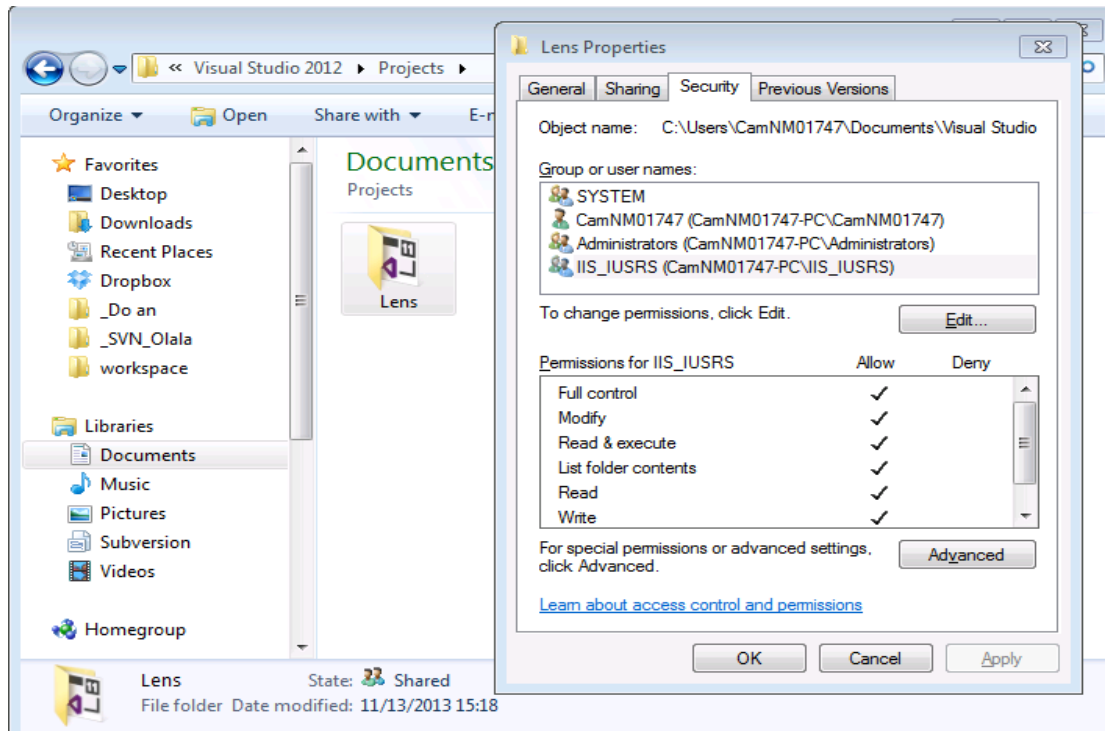


Figure 6-6: Make permission for project Lens

Step 3: Build project and trial run

Open browser and enter format link:

http://LOCAL_SERVER/NAME_PROJECT_ON_IIS/Lens.asmx

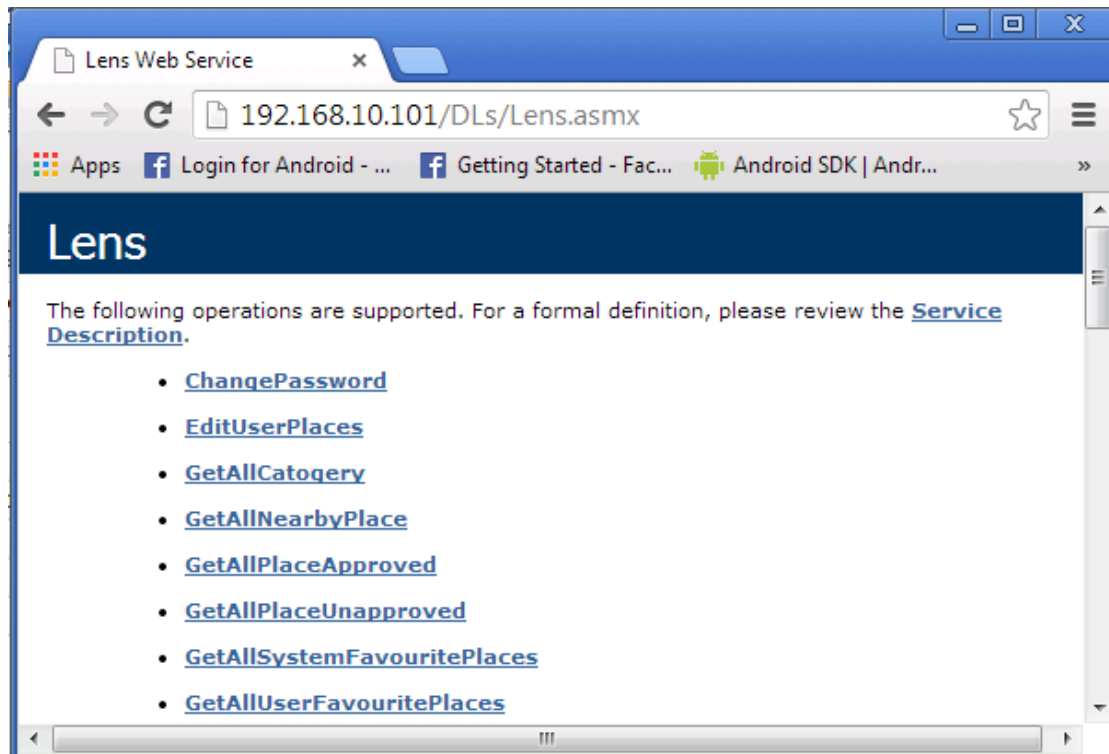


Figure 6-7: Trial run web service

1.3.4.2 Deploy Android Application Module

Step 1: Import project DirectionLensProject to eclipse

Step 2: Import library “google-play-services_lib” and add to project

Step 3: Config ServerAPI with link web service

Step 4: Config Google Map Android API v2

Step 5: Build and run project

2 USER's GUIDE

2.1 Purposes

This user's manual has been developed to help users better understand the requirements that may apply to use this application by providing them simple step by step tutorials. This manual is intended to help make application's functions more accessible and their associated requirements more understandable to users.

2.2 Functional Description

On mobile, when application is run, DLs system automatically locates user standing location and also displays places around by listview or on map. User can search any place or choose place on screen to see detail information of place or to get direction to that place. They can change radius or select category to make easier find place. With user who has account on system, besides functions above, they can add new place, edit place they added or delete them if they want. They also set any place in system to favorite place or remove it.

2.3 Detailed Guidelines

2.3.1 Register

To use register function on mobile, the users do the steps below:

Step 1: Click on “Xin chào khách” icon

Step 2: Click on “Đăng ký” button on the screen

Step 3: Fill all necessary and mandatory information



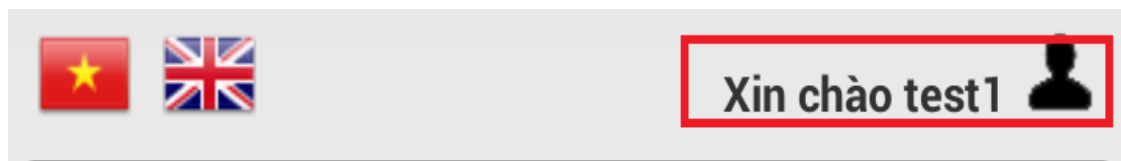
The screenshot shows a mobile application interface for registration. At the top, there are two flags (Vietnam and UK) on the left and the text "Xin chào khách" with a user icon on the right. The main title is "Đăng ký". Below the title, there are four input fields: "Tên đăng nhập:", "Mật khẩu:", "Nhập lại mật khẩu:", and "Email:". At the bottom, there are two buttons: "Đăng ký" and "Hủy".

Step 4: Click “Đăng ký” button

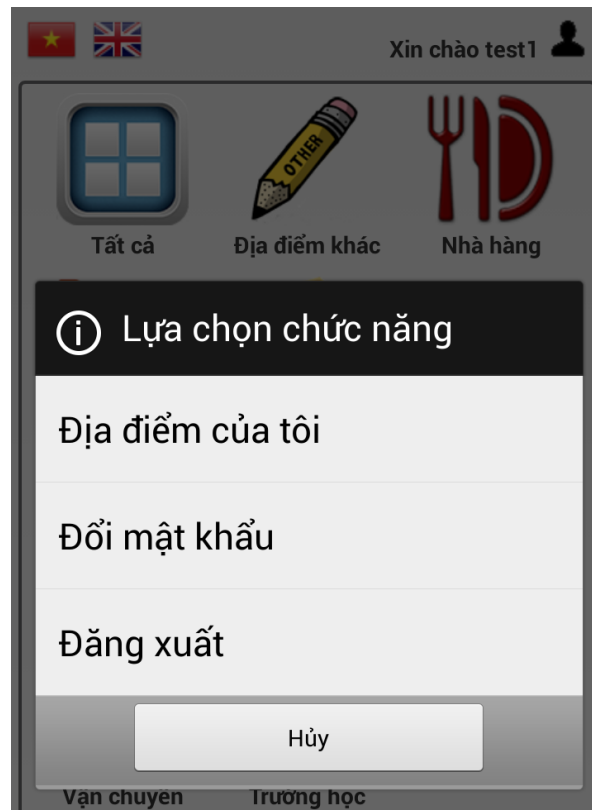
2.3.2 Logout

To use Logout function, the users do the steps below:

Step 1: Have logged into system



Step 2: Click on icon “người sử dụng”



Step 3: Click on “Đăng xuất”

2.3.3 Reset Password

To use Reset Password function, the users do the steps below:

Step 1: Click on “Xin chào khách” icon



The screenshot shows a login interface. At the top, there are flags for Vietnam and the UK, and a greeting "Xin chào khách" with a user icon. The main heading is "Đăng nhập". Below it, there are two input fields: "Tên đăng nhập:" and "Mật khẩu:". Under the password field, there are two buttons: "Đăng ký" and "Đăng nhập". At the bottom, there is a blue hyperlink labeled "Quên mật khẩu".

Step 2: Click “Quên mật khẩu” hyperlink

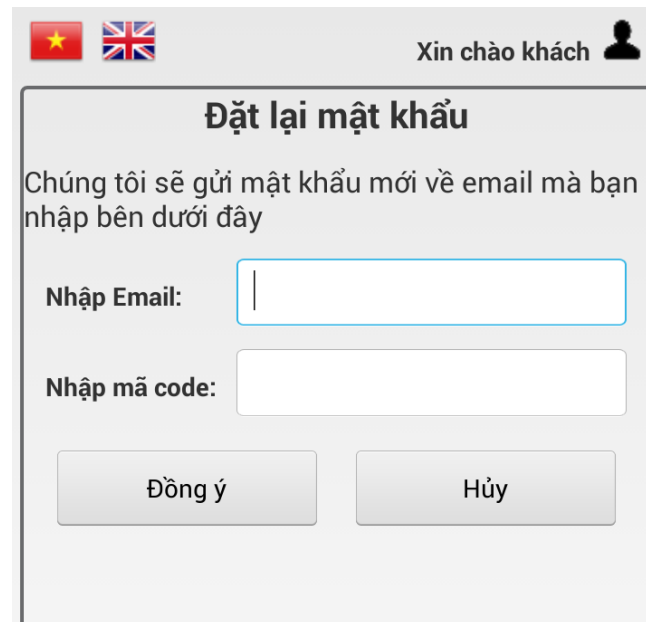


The screenshot shows a "Đặt lại mật khẩu" (Reset Password) page. At the top, there are flags for Vietnam and the UK, and a greeting "Xin chào khách" with a user icon. The main heading is "Đặt lại mật khẩu". Below it, there is a paragraph of text: "Chúng tôi sẽ gửi mã code để reset mật khẩu về email mà bạn nhập bên dưới đây. Nhấn đồng ý để nhận mã code, nếu đã có mã code nhấn tiếp tục". Below the text, there is an input field labeled "Nhập Email:". At the bottom, there are two buttons: "Đồng ý" and "Tiếp tục".

Step 3: Fill Email

Step 4: Click on “Đồng ý” button

Step 5: Click on “Tiếp tục” button



Đặt lại mật khẩu

Chúng tôi sẽ gửi mật khẩu mới về email mà bạn nhập bên dưới đây

Nhập Email:

Nhập mã code:

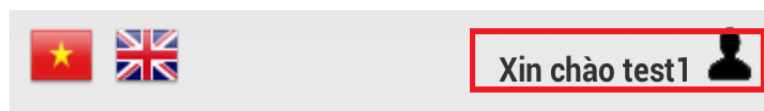
Step 6: Fill Email and Code

Step 7: Click on “Đồng ý” button

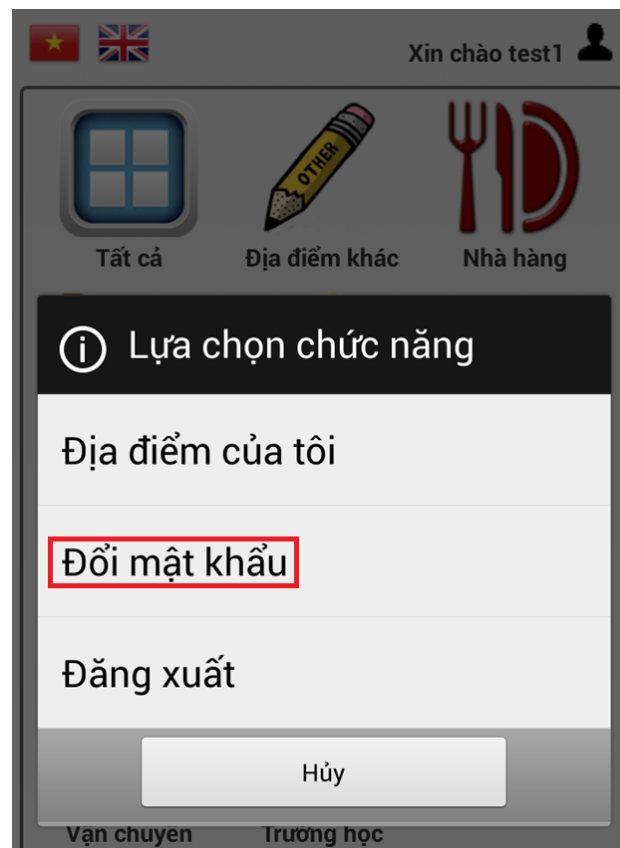
2.3.4 Edit User

To use Edit User function, the users do the steps below:

Step 1: Have logged into system



Step 2: Click on “Người sử dụng” icon



Step 3: Click “Đổi mật khẩu” hyperlink



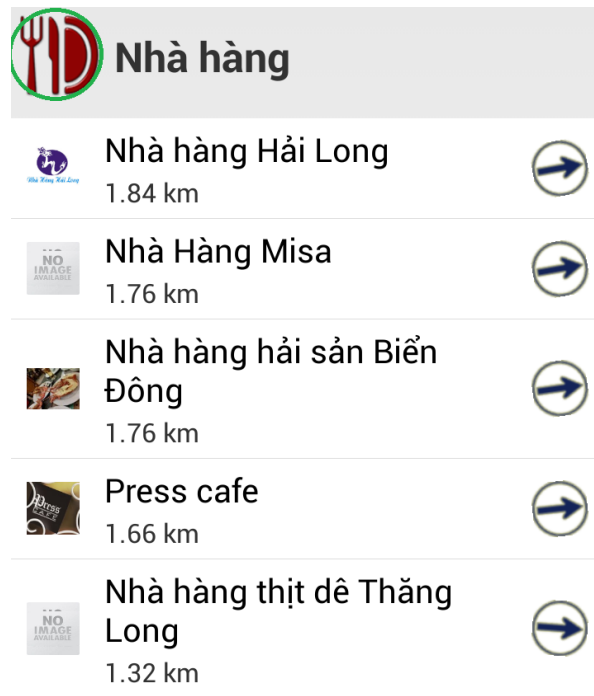
Step 4: Fill “Mật khẩu hiện tại”, “Mật khẩu mới” and “Nhập lại mật khẩu”

Step 5: Click “Đồng ý” button

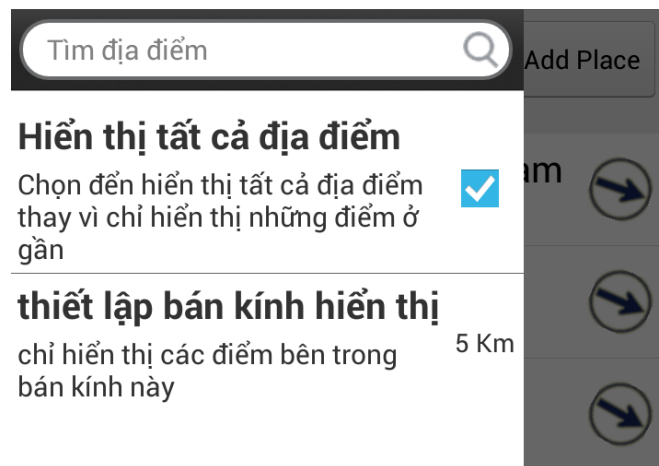
2.3.5 Search Place

To use Search Place function, the users do the steps below:

Step 1: Tilt mobile to see the list of places in list view



Step 2: Click on “category” icon



Step 3: Fill Place name into search box

Step 4: Click “Search” button

Step 5: Click on a place name → Displays Place detail information

2.3.6 Get Near by Place

To use Get near by place function on mobile, the users do the steps below:

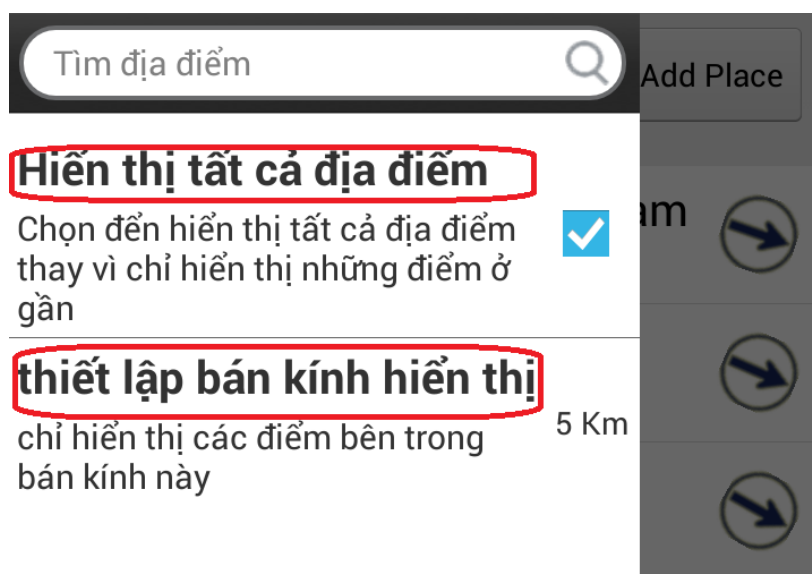
Step 1: Click on “Category” icon



If user wants fix radius

Step 2: Tilt mobile to see the list of places in list view

Step 3: Click on “category” icon



Step 4: Click on “thiết lập bán kính” hyperlink

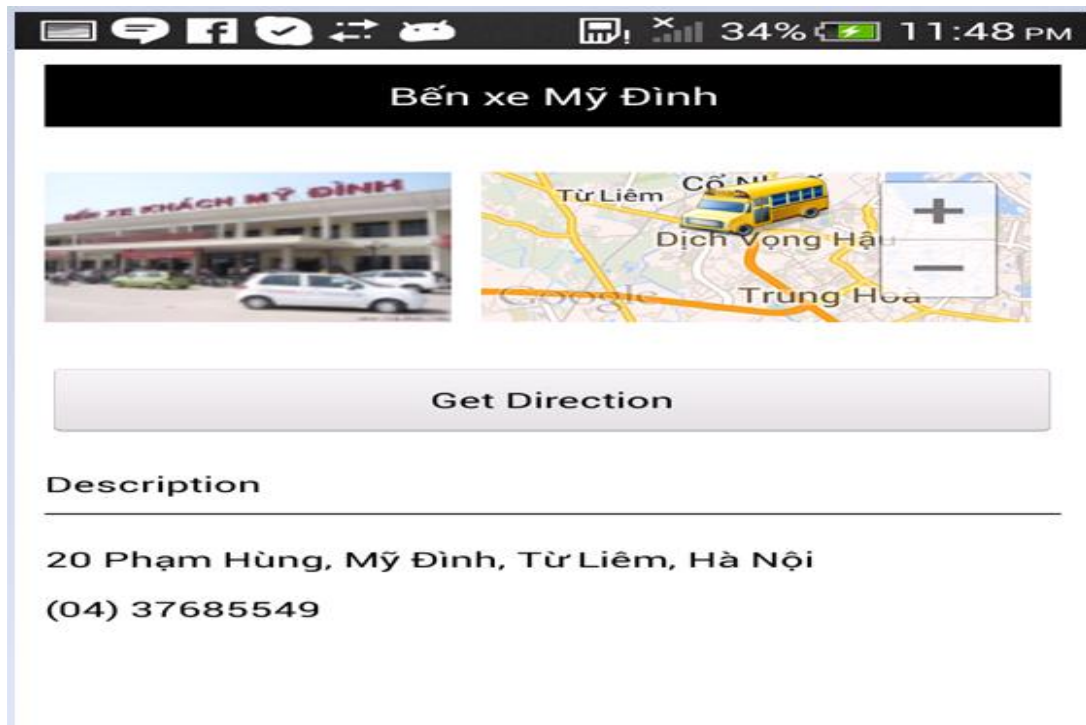
2.3.7 Detail Place

To use Detail, the users can 2 ways:

Way 1: the users do the steps below:

Step 1: In List view

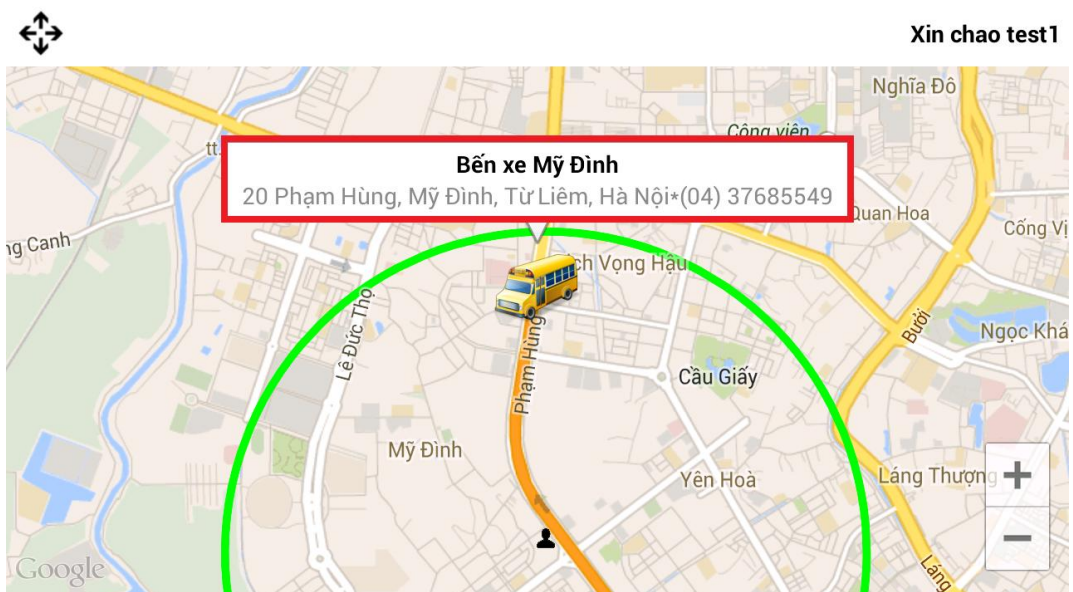
Step 2: Click on “place name” hyperlink



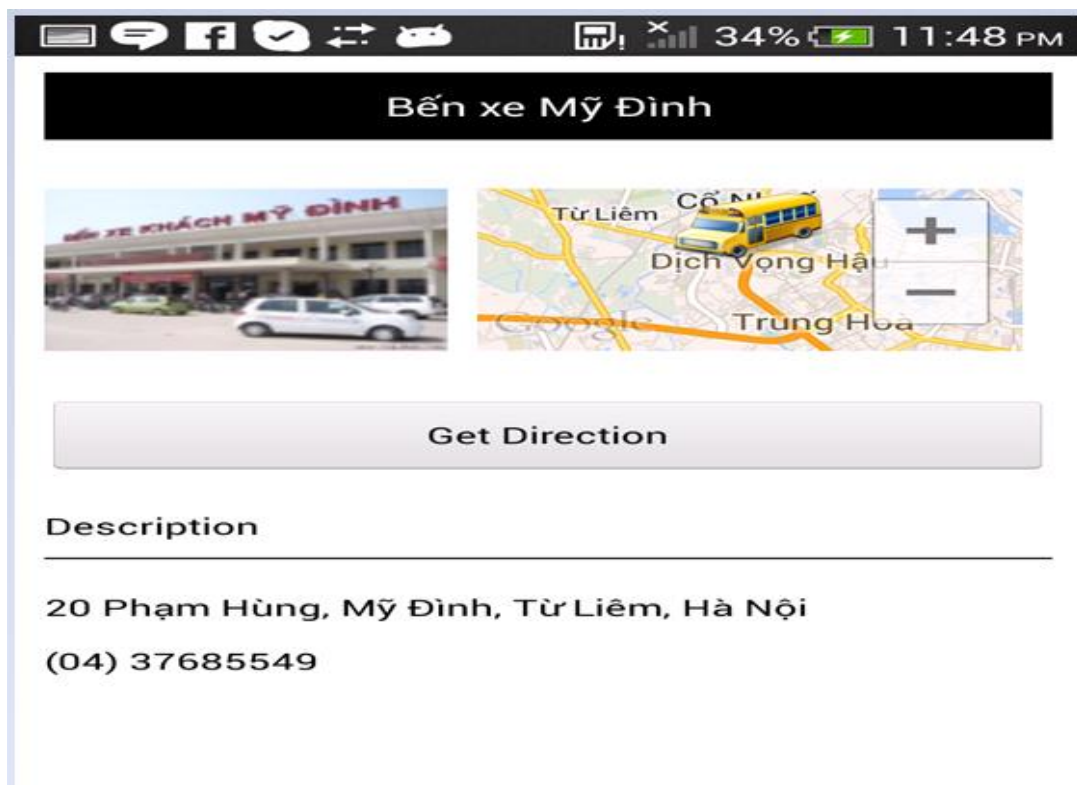
Way 2: The users do the step below:

Step 1: On Maps

Step 2: Click “Place” icon. Display text view name place and detail



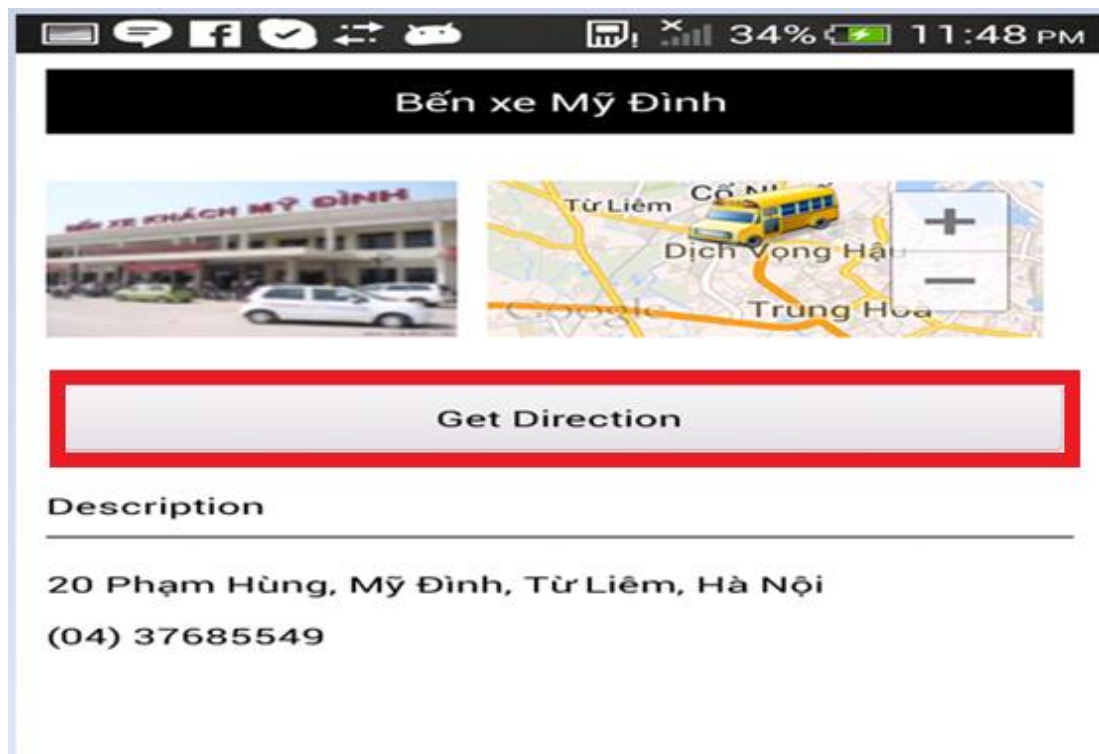
Step 3: Click text view

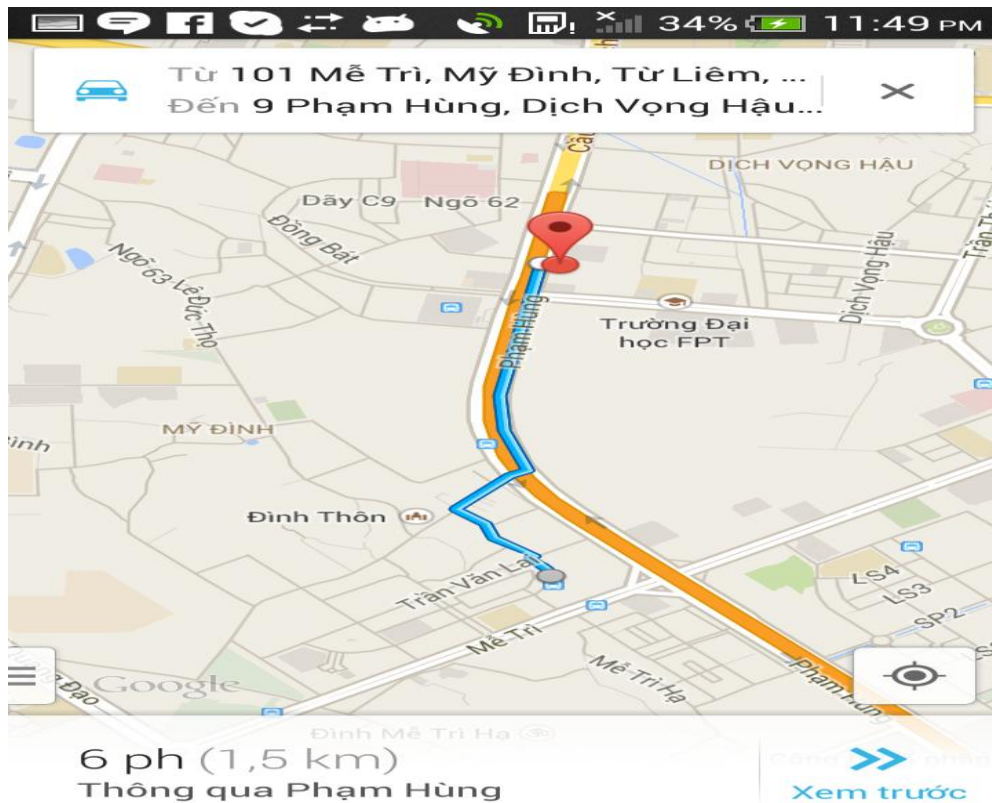


2.3.8 Direction Place

To use Detail Place, the users do the steps below:

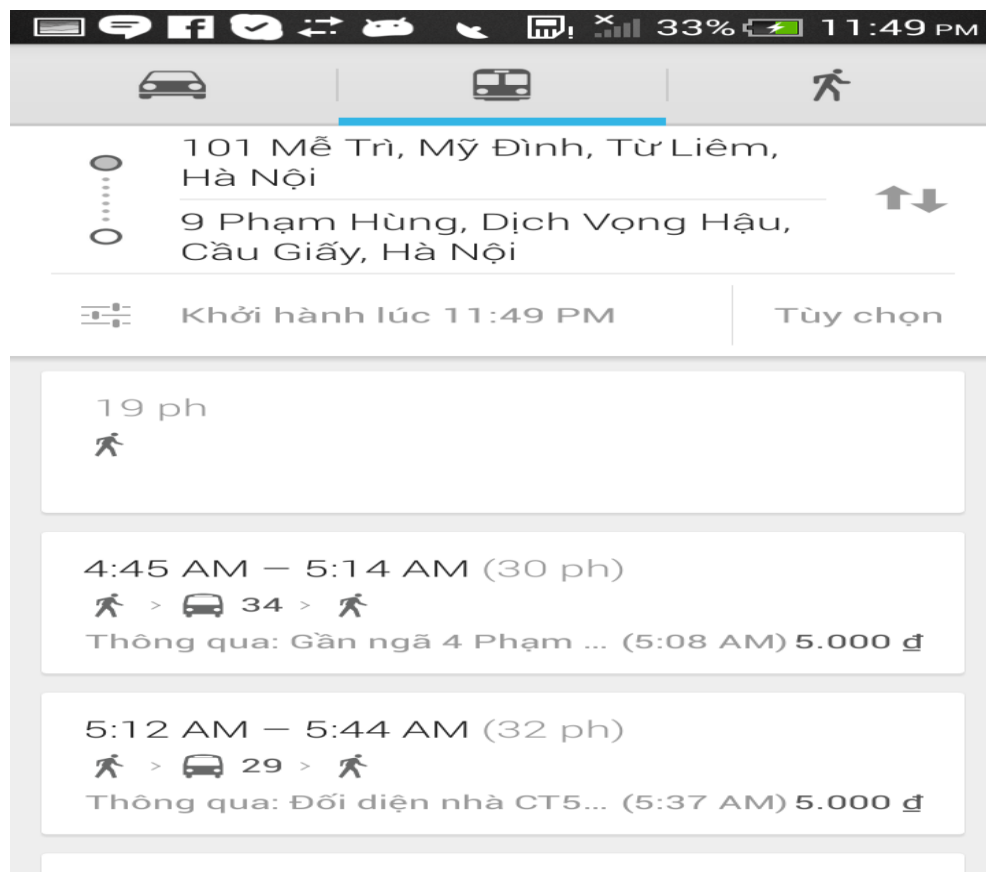
On screen Detail Place, users click “Get Direction” button





2.3.9 Detail Direction

On screen Direction Place, users click on “type vehicles” icon

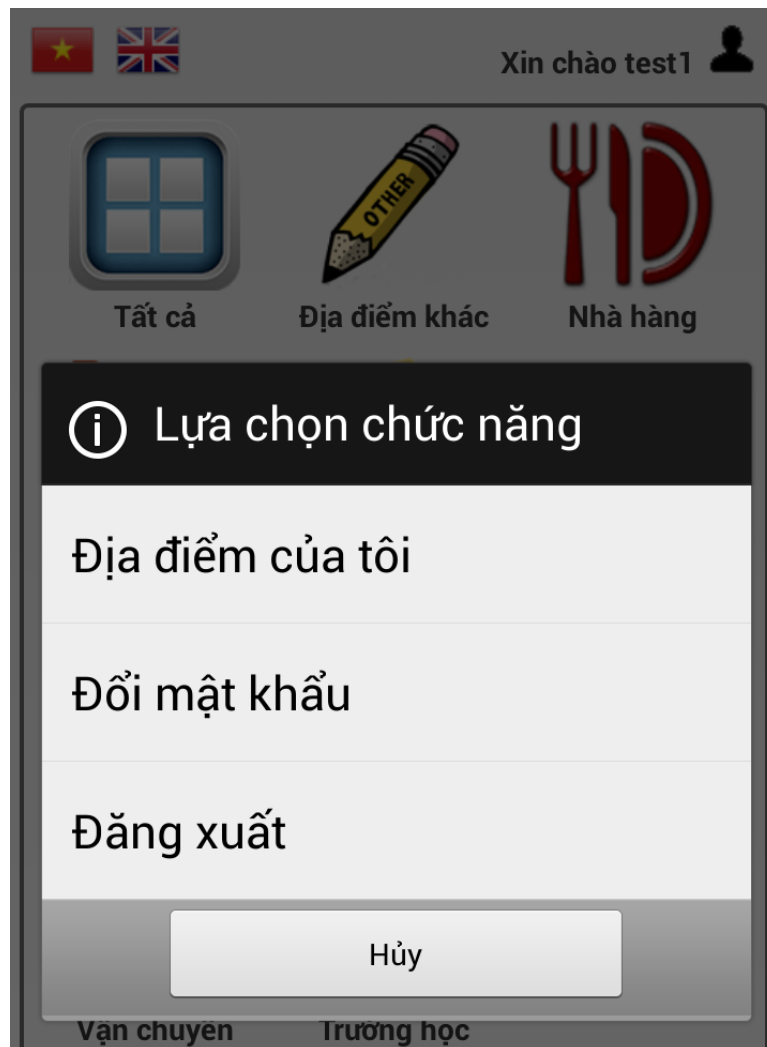


2.3.10 Add Place

To use Add Place, the users do the steps below:

Step 1: Have logged into system

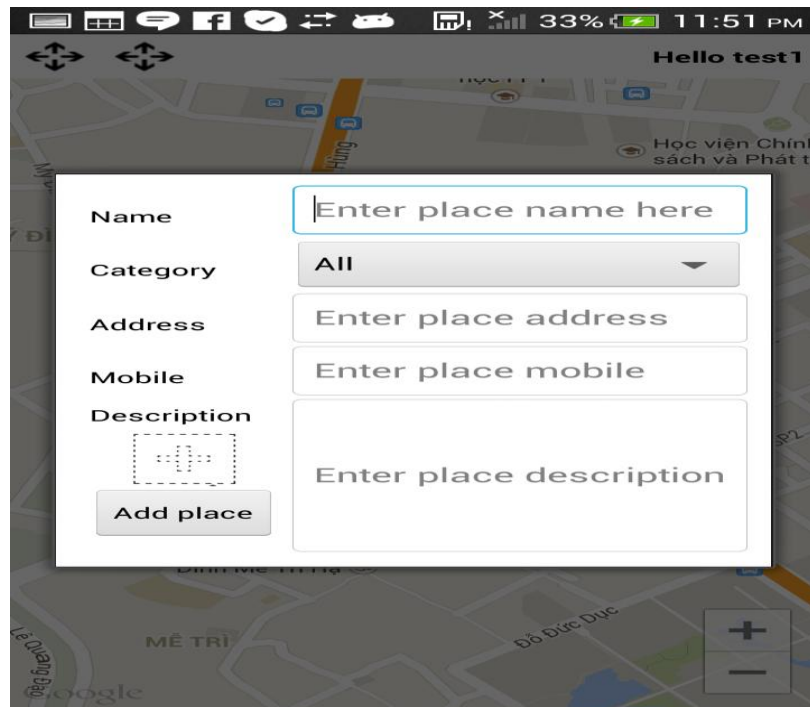
Step 2: Click on icon “người sử dụng”



Step 4: Click on “Địa điểm của tôi” hyperlink

Step 5: Click on “Add Place” button

Step 6: Click location users want to add



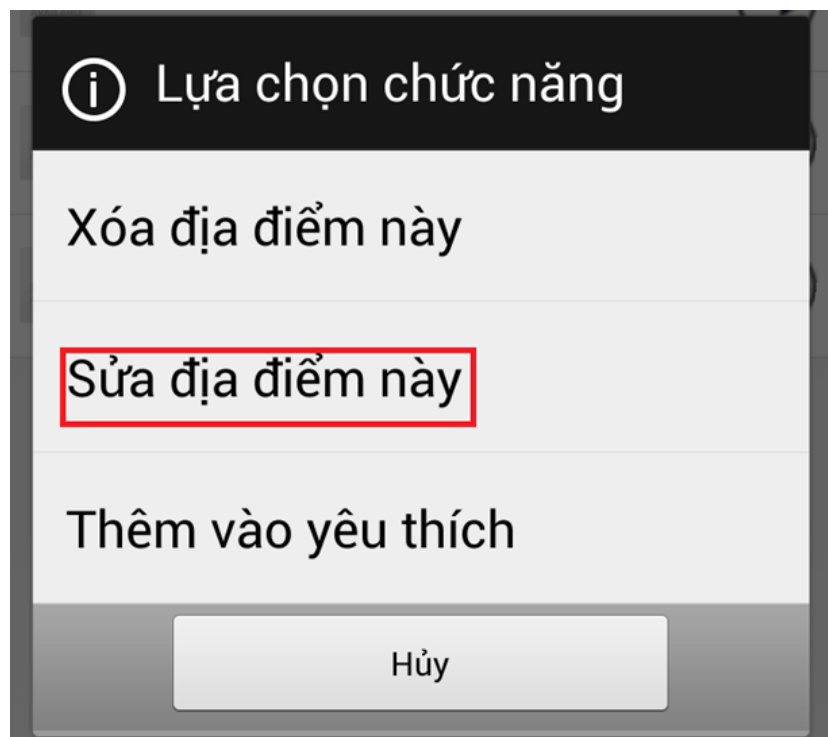
Step 7: Fill all necessary and mandatory information

Step 8: Click on “Add Place” button

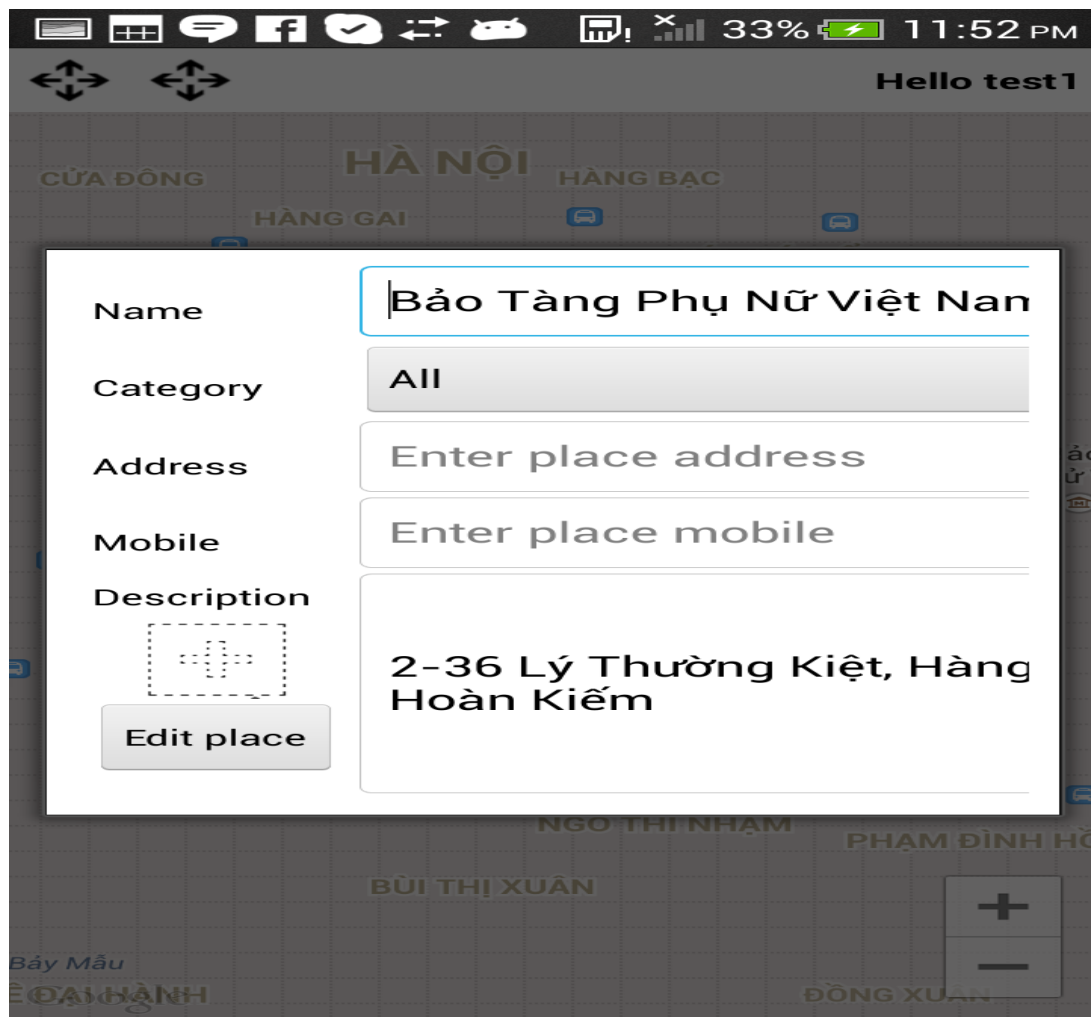
2.3.11 Edit Place

Step 1: Have logged into system

Step 2: Hold the name place



Step 3: Click on “Sửa địa điểm này” hyperlink



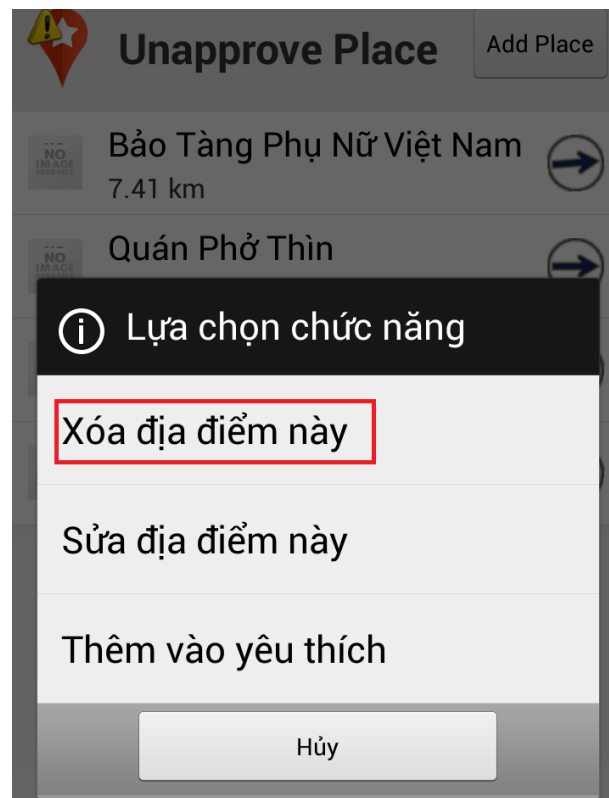
Step 4: Fill information of place want to edit

Step 5: Click on “Edit place” button

2.3.12 Delete Place

Step 1: Have logged into system

Step 2: Hold the name place

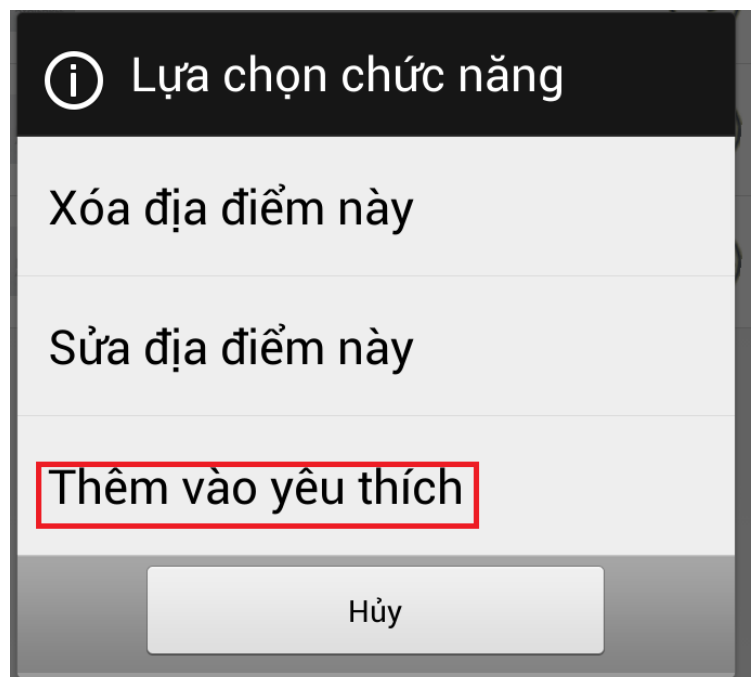


Step 3: Click on “Xóa địa điểm này” hyperlink

2.3.13 Set Favourite Places

Step 1: Have logged into system

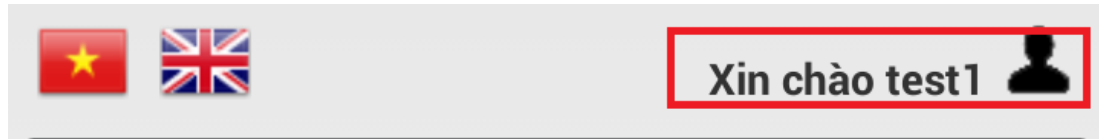
Step 2: Hold the name place



Step 3: Click on “Thêm vào yêu thích” hyperlink

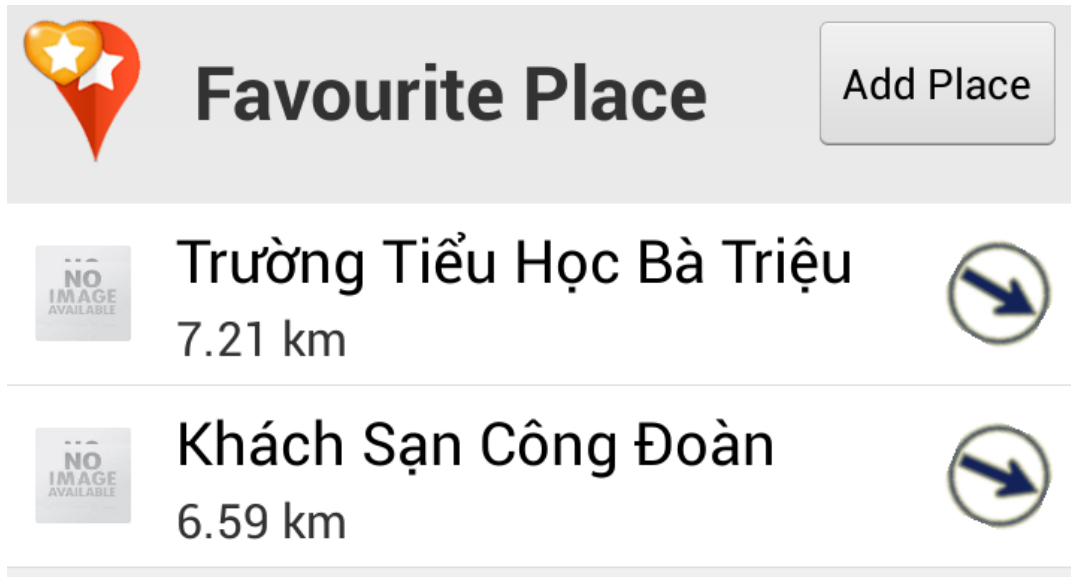
2.3.14 Remove Favourite Places

Step 1: Have logged into system

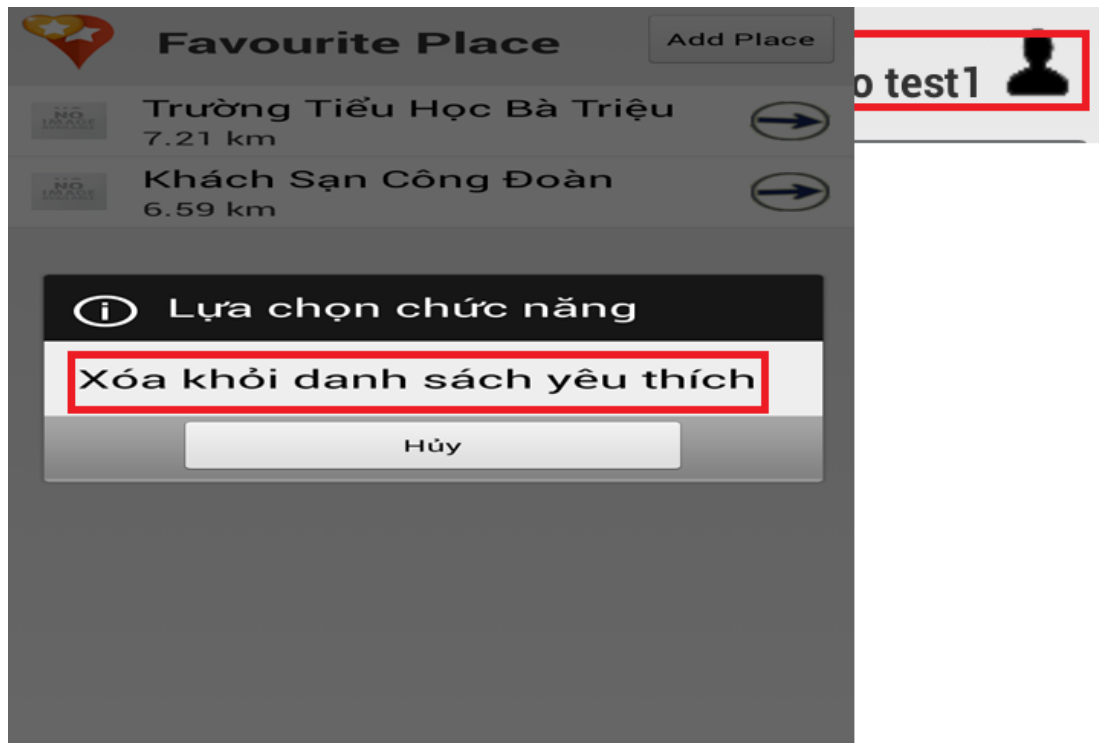


Step 2: Click on icon “người sử dụng”

Step 3: Change to screen list “Favourite Place”



Step 2: Hold the name place and click on "Xóa khỏi danh sách yêu thích" hyperlink



3 PROJECT RESULT REPORT

3.1 Product Judging

3.1.1 Advantage of DLs System

The idea of the DLs project is to develop a new product that inherits the advantages and improve issues and learns from other products. And the new product would have the opportunity to add a lot of enhancements.

As the goals that we have set before started the project, the DLs system has been developed in a right direction. And what it provides to users is in the list below:

- Find place around user place standing quickly, relatively sufficient.
- Show to user the direction to other place they want by detail and exactly
- Provide detail information of place to user
- Manage information about place easily and accurately.
- Help user make their "private map" and manage theirs favorite places
- Easy to use and can be installed and use on Smartphone (android OS)

3.1.2 Current Limitations

- Not have account for put up DLs application to Play Store
- Not have time to develop more function

3.1.3 Expectation in Future

- First, continuously develop this module, improve the way interact with user (through GUI, report...).
- Second, develop and add function share and vote place to advertise. User shares any place that they want to introduce with friends or others... Or with any place that they really like, they vote to it. It is one way advertises to more and more people know about this place. System would be connected to social networking to expand scope also formula development.
- Put up DLs application to Play Store, easy to download and install on mobile.

3.2 Project Summary

Project Title	Direction Lens
Project Supervisor	Nguyễn Văn Sang
Committers (5)	

1	Project Manager	Phan Thị Loan	LoanPT01869@fpt.edu.vn
2		Nguyễn Mạnh Cẩm	CamNM01747@fpt.edu.vn
3	Designer	Hồ Anh Tú	TuHA01850@fpt.edu.vn
4	QA + Tester	Đào Xuân Mão	MaoDX00257@fpt.edu.vn
5	QA + Tester	Bùi Như Tú	TuBN01872@fpt.edu.vn
Main objective		Develop Direction Lens, help user can find place and show path, direction detail on map to the other place easily, quickly and accurately. Moreover, user can manage their places and favorite place as their “private map”.	
Purpose		Provide Admin module on website and Client module (DLs application) on mobile.	
Source Repository			
		Plan	Actual
Releases Date			
Releases version		1.0	1.0
Days			
Test cases			
Defects			
Document pages		~ 200 (include appendix)	> 200 (include appendix)
Lines of code			~30.000 lines

3.3 Lessons Learnt

Have experience and deeply understand about DLs System

- Understand about the general process or work flow of test processes.
- Improve skill
 - Technical: Json, Android, Webservice.
 - Database: MySQL
 - Soft skill: brainstorm, teamwork, research and self-study, plan management, time management and project management.

- Risk and issues management
 - Technique :
 - No members have experiences work with some framework as and Android. So before start this project, we divided the project into two separate arrays are web and mobile and assign some members to take responsibility for researching and training the others.
 - Not understanding about general / detail technical: researching internet, asking for supporting from community.
 - Human resources:
 - Some members are lazy for a while so we define detail schedules, and often reminding each other.
 - Laptop of a member was broken so need to buy new laptop and setup environment to continues task
 - Members were lack of project information, so we use many method to prevent this issue, we use the general SVN from sourceforce.com; everyone can keep up with the project.
 - Meeting for brainstorming
 - Scheduling and reporting
 - Over time, because of:
 - Risk: technique, resources.
 - Not pay attention at the beginning, lazy