MINISTRY OF EDUCATION AND TRAINING

FPT UNIVERSITY

Capstone Project Document

Reasonable Spending Suggestion

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Capstone Project code	RSSuggestion

-Ho Chi Minh City, 05/2014-

F. Software User's Manual

1. Installation Guide
1.1 Setting up environment at server side
The following software must be installed into the server machine:
1.1.1 Hardware requirements
Personal computers for developing with the minimum configuration:
- Processor: minimum 1 GHz (x86 processor) or 1.4 GHz (x64 processor).
- Memory: minimum 1GB RAM.
- Available Disk Space: minimum 30GB hard disk (10GB install Window server).
- Internet with bandwidth (> 1.5Mbps)
1.1.2 Software requirements
- Web Server: Internet Information System – IIS 7.0.
- Microsoft Windows Server 2008: operating system.
- SQL Server 2008 R2: used to create and manage the database for web application.
- Other library:
  - Microsoft Visual C++ 2010 SP1 Redistributable Package (x86) (http://www.microsoft.com/en-us/download/details.aspx?id=8328)
1.2 Deploy at server side
1.2.1 Prepare deployment package
- Extract the deployment package to a folder on the server.
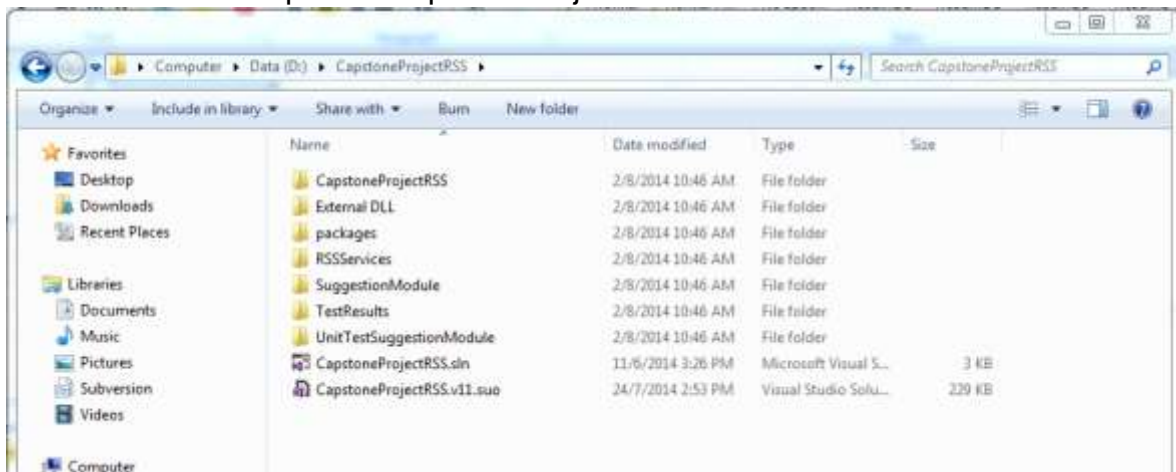- For example: D:\CapstoneProjectRSS

Figure 1 Extract source folder

1.2.2 Deploy database

- Open Microsoft SQL Server Management Studio.

Figure 2 Connect SQL Server

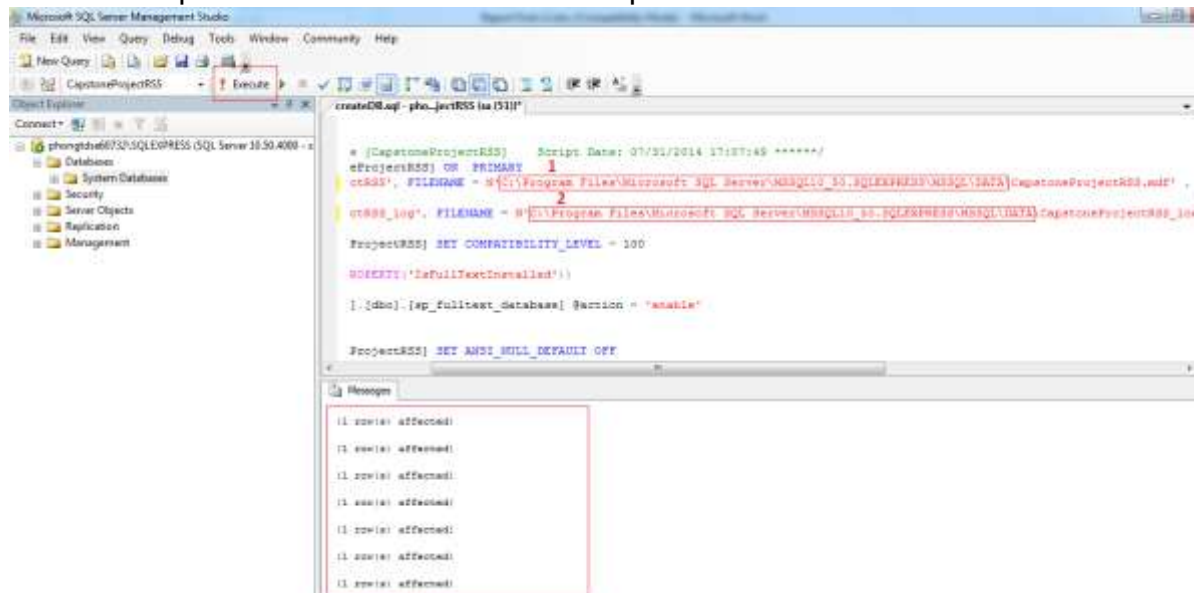- Open and excute the createDB.sql file

Figure 3 Create Database

- Replace 1 and 2 with Microsoft SQL Server local installed path [local_path]/MSSQL\DATA
- Run script file by click Execute
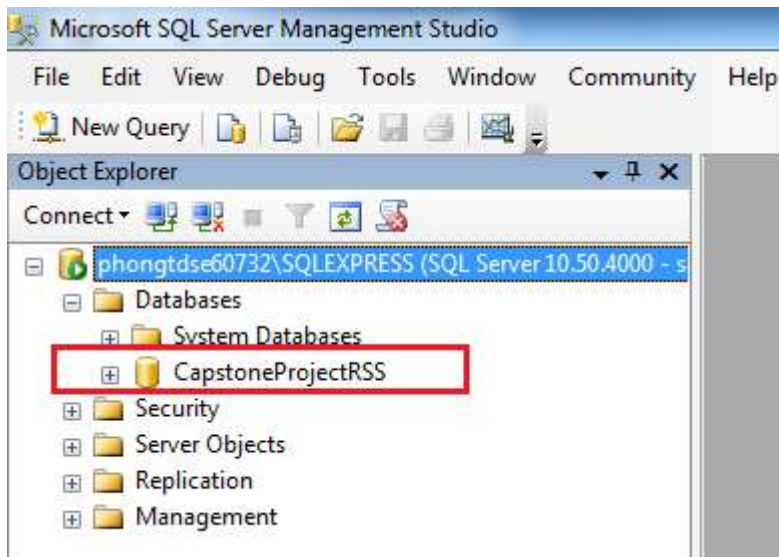- Program notify (1 row(s) affected) and database CapstoneProjectRSS will be created.

Figure 4 Create Database Success

1.2.3 Configure server before deploy

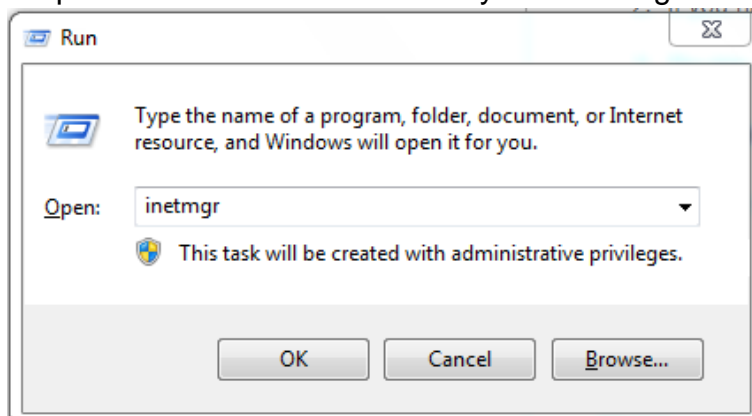• Open the Internet Information System Manager.

Figure 5 Open IIS

• Change the .NET Framework version to 4.0.

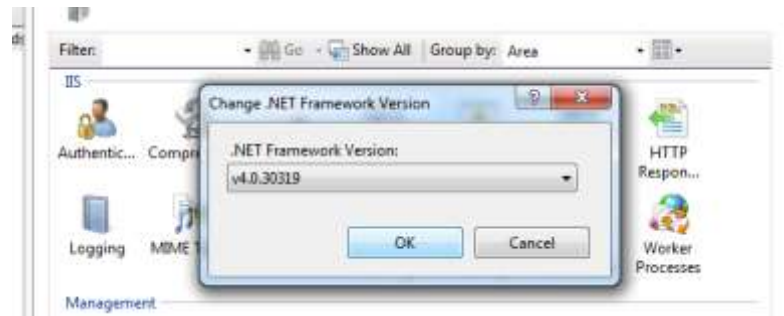*Figure 6 Change .NET framework*

Figure 7 Choose .NET framework

1.2.4 Deploy web application on server

- Change the connection string in file CapstoneProjectRSS\Web.config and file RSSServices\Web.config with your MSSQL server name.
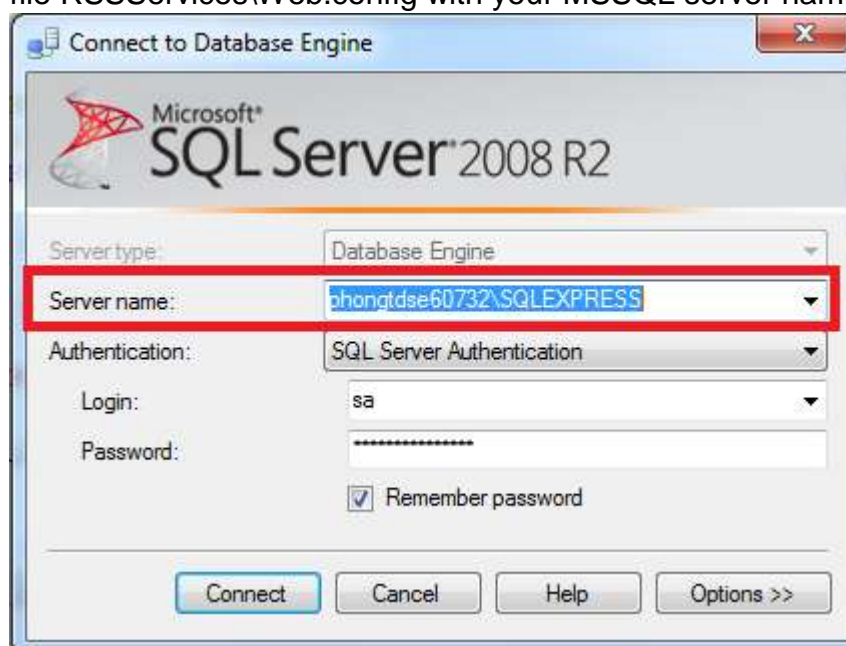

Figure 8 Get Server name

Figure 9 Config local database

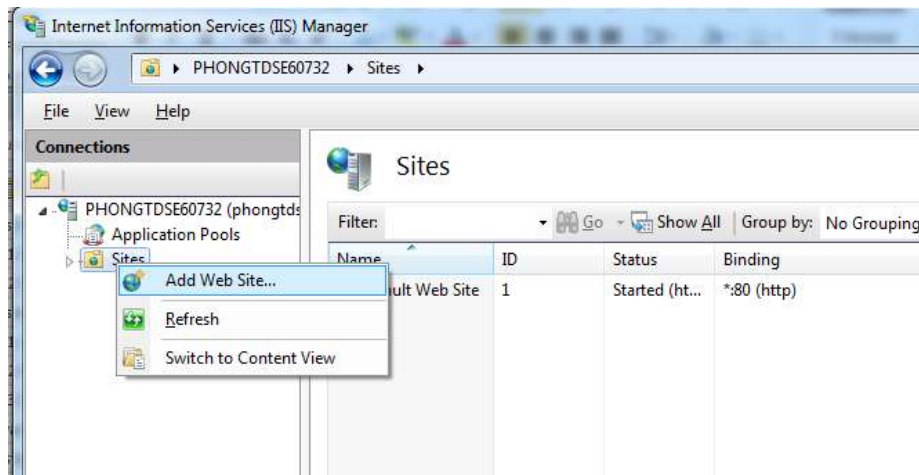- Right click as Sites. Choose "Add Web Site".

Figure 10 Add Website

- Enter site name.
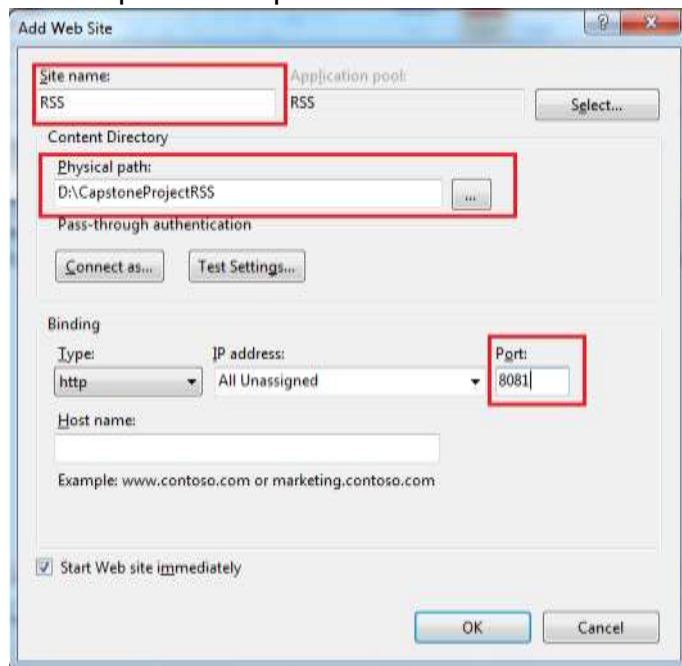- Select the path as the folder in step 1.
- Enter port. Example: 8081.

Figure 11 Congig Website Information
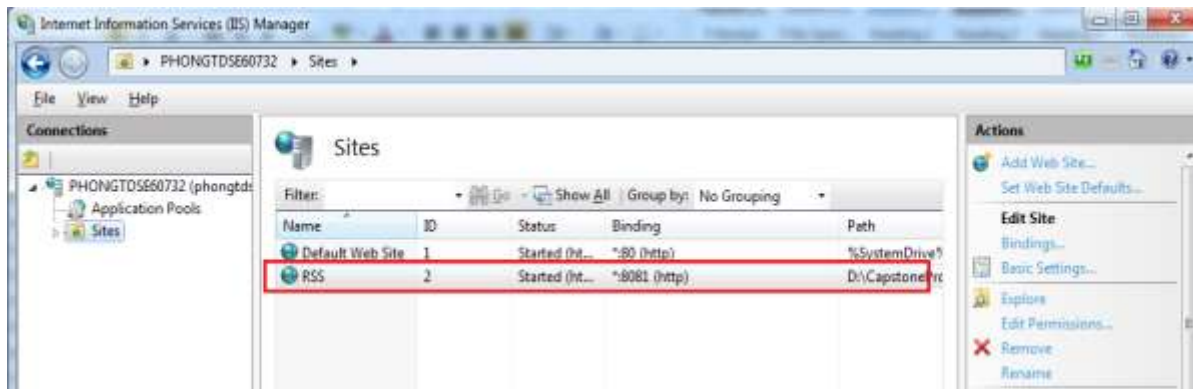
- Press OK. New website is added.

Figure 12 Add Website Success

1.3 Setting up environment at client side
1.3.1 Setting up for computer
- The client devices need to have one of the following browsers to access the website:
  - Google Chrome.
  - Firefox.

1.3.2 Setting up for android device
- Change setting to install unknown source apk. Go to Setting / Security, tick check box Unknow sources.
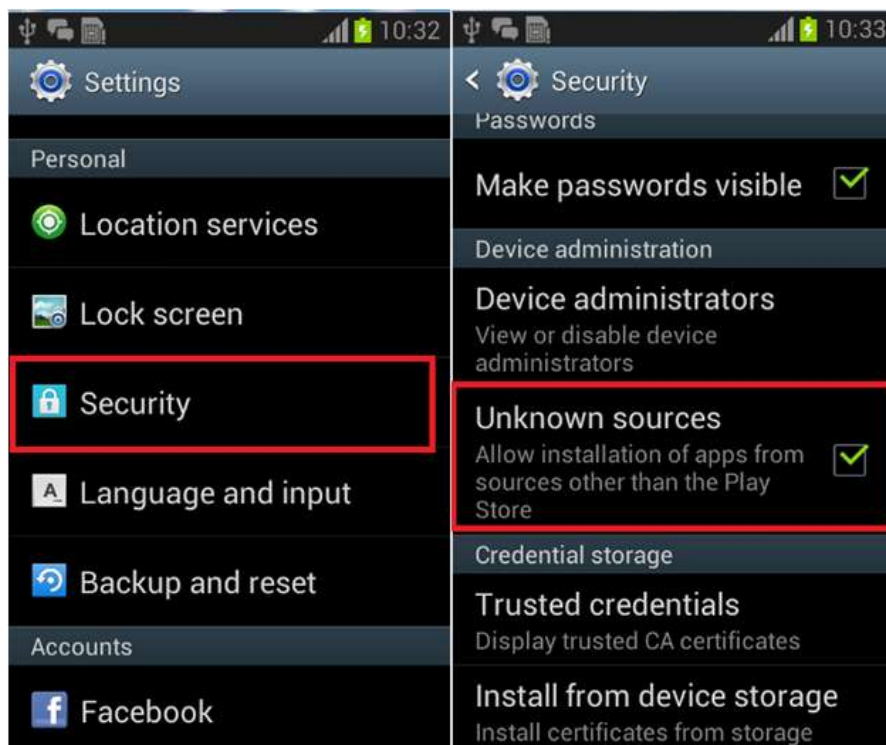

Figure 13 Change install setting

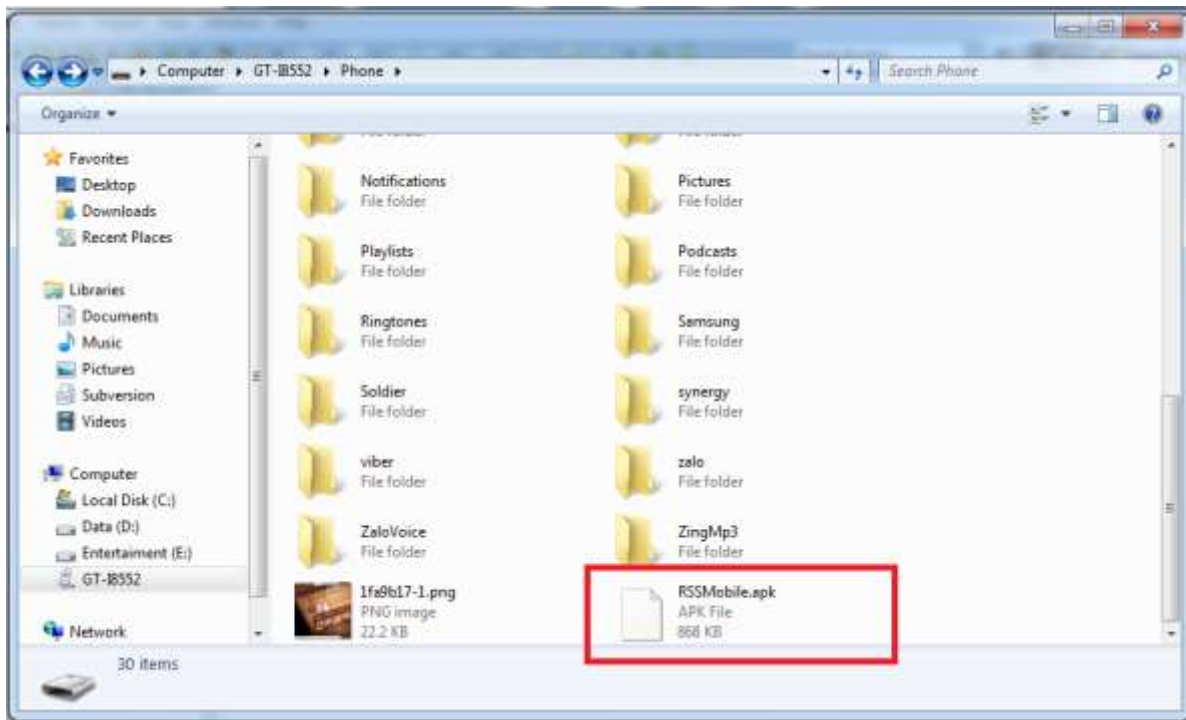- Copy installation source into device external memory.

Figure 14 Copy install file into device

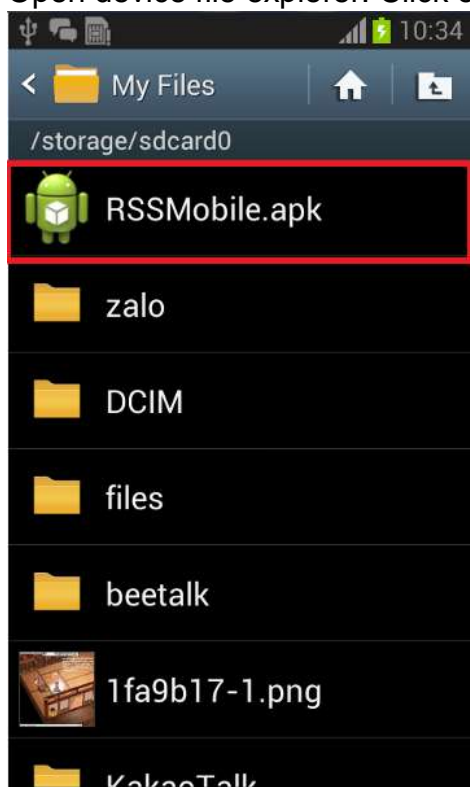- Open device file explorer. Click on file to install.

Figure 15 Choose install file

- Choose Pakage installer, Just once
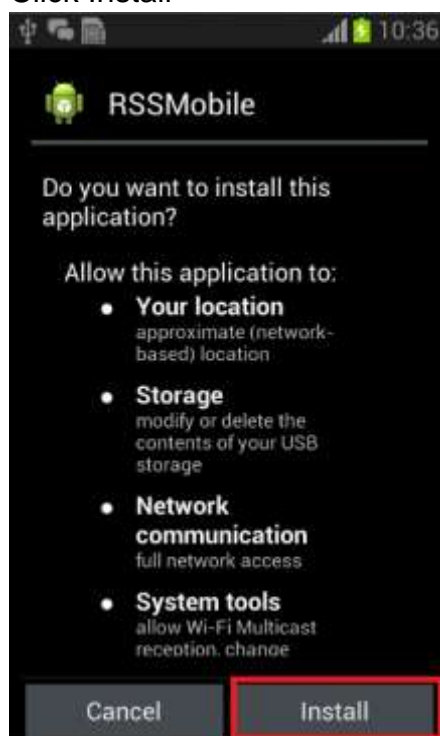
Figure 16 Install
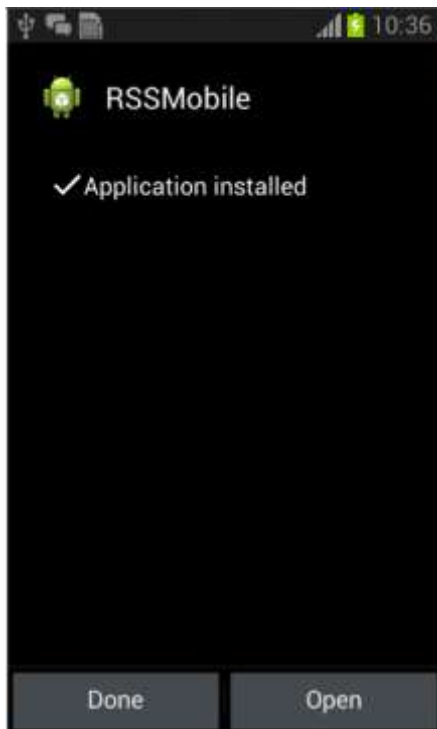
- Click Install

Figure 17 Install

- Install success

Figure 18 Install success

2. User Guide
2.1 Website guide
2.1.1 Register Account

Figure 19 Register Account

Step	Description
1	Fill in required fields: - "Tài khoản": 6-12 characters - "Mật khẩu": 6-12 characters - "Xác nhận mật khẩu": same with "Mật khẩu". - "Tên đầy đủ": user fullname. - "Email": user's email address. - "Số tiền hiện có": current money of user. Unrequired fields: - "Số điện thoại": user's phone number. - "Hình thức tiết kiệm": user saving expected. - "Hình thức thông báo": notify mode.
2	Click "Tạo tài khoản": submit register form.

2.1.2 Login

Figure 20 Login

Step	Description
1	Fill in fields: - "Tài khoản": username. - "Mật khẩu": password.
2	Click "Đăng nhập" : submit login form.

2.1.3 Manage Profile Information

Figure 21 Manage Profile Information

Step	Description
1	Fill in fields: - Change password by filling "Mật khẩu" and "Xác nhận mật khẩu" fields. - Change profile full name by filling "Tên đầy đủ" field. - Change email address by filling "Email" field. - Change current balance money by filling "Số tiền hiện có" field. - Change phone number by filling "Số điện thoại" field. - Change save mode by choose "Hình thức tiết kiệm" check button. - Change notification mode by choose "Hình thức thông báo" check box.
2	Click "Lưu thay đổi" to save information.

2.1.4 Manage Income Plan

Figure 22 Manage Income Plan

Item	Description
1	View income plan for each month.
	Click "tháng" and "năm" dropdown list to choose time moment.
2	Click "Thêm" button to create a new income. Pop-up is showed:
3	Click "Sửa" button to update each income.
4	Click "Xóa" button to delete each income.
5	Click "Tạo tự động" button will show pop-up to copy previous plan.

- Create Income Plan

Figure 23 Create Income Plan

Step	Description
1	Fill in fields: - "Loại thu nhập": Choose income category. - "Số tiền" : money amount. - "Thời gian" : choose the month of income - "Ghi chú" : description information.
2	Click "Thêm" to save information.
2.1	Click "Hủy" to cancel

- Clone Income Plan

Figure 24 Clone Income Plan

Item	Description
1	Click "tháng" and "năm" to choose the plan which is copied.
2	Click "Sao chép" to accept and copy the previous plan to current plan.
3	Click "Hủy" to cancel

2.1.5 Manage Expense Plan

Figure 25 Manage Expense Plan

Refer to 6.1.4 Manage Income Plan.

- Create Expense Plan

Figure 26 Create Expense Plan

Step	Description
1	Fill in fields: - "Loại chi tiêu": Choose expense category. - "Số tiền" : money amount. - "Thời gian" : choose the month of expense - "Ghi chú" : description information.
2	Click "Thêm" to submit form.
2.1	Click "Hủy" to cancel

- Clone Expense Plan
  Refer to 2.1.4 Manage Income Plan, Clone Income Plan.

2.1.6 Manage Real Income

Figure 27 Manage Real Income

Item	Description
1	View real income for each month. Click "tháng" and "năm" dropdown list to choose time moment.
2	Click "Thêm" button to create a new income. Add pop-up is showed.
3	Click "Sửa" button to update each income.
4	Click "Xóa" button to delete each income.

- Create Real Income

Figure 28 Create Real Income

Step	Description
1	Fill in fields: - "Tên thu nhập": Choose income category. - "Số tiền" : money amount. - "Ngày nhận" : choose the day of income. - "Ghi chú" : description information.
2	Click "Thêm" to submit form.
3	Click "Hủy" to cancel

2.1.7 Manage Real Expense

Figure 29Manage Real Expense

Refer to 2.1.6 Manage Real Income
- Create Real Expense

Figure 30 Create Real Expense

Step	Description
1	Fill in fields: - "Tên chi tiêu": Choose income category. - "Số tiền" : money amount. - "Ngày chi" : choose the day of income. - "Ghi chú" : description information.
2	Click "Thêm" to submit form.
2.1	Click "Hủy" to cancel

2.1.8 Manage Expected things

Figure 31 Manage Expected Things

Item	Description
1	Click "Thêm" button to create new expected product.
2	Click "Mua" button when the product is bought.
3	Choose arrange button to change priority of product
4	Click "Sửa" button to change expected product money.
5	Click "Dự đoán thời gian" to view predict to buy product.
6	Click "Xóa" to delete expected thing.

- Add expected thing

Figure 32 Add expected Thing

Step	Description
1	Fill in fields: - "Tên sản phẩm": product's name. - "Số tiền tối đa": product maximum price.
2	Click "Thêm" to submit form.
3	Click "Hủy" to cancel

2.1.9 View Suggestion

Figure 33 View Suggestion

Item	Description
1	View the suggestion about product which can be bought with current money and amount money have to save to buy.
2	Click "Chi tiết" to view suggestion details that show each expense saving terms.

- View Suggestion Details

Figure 34 Suggestion Details

2.1.10 Manage Debit Money

Figure 35 Manage Debit

Item	Description
1	View expense list of debit.
2	Click "Trả nợ" to remove the expense term out of debit list. Debit money amount will decrease.

2.1.11 Manage Supplementary Account

Figure 36 Manage Supplementary Account

Item	Description
1	Show supplementary account list.
2	Fill "Tiền chi tối đa" to set maximum used money of each account in current month.
3	Check "Trang thái" to set status of each account.
4	Click "Cập nhật" to save information
5	Click "Thêm tài khoản phụ" to add new supplementary account.

2.1.12 Manage All Account (for admin)

Figure 37 Manage All Account (for admin)

Item	Description
1	Click check box to active/deactive account

2.1.13 Configure System (for admin)

Figure 38 Configure System (for admin)

Item	Description
1	Base expense decrease max.
2	Normal expense decrease max.
3	Devired expense decrease max
4	Maximum money
5	Maximum money that not enough to buy thing
6	Maximum money to recalculate suggestion
7	Save button
8	Reset button

2.2 Mobile Application Guide
2.2.1 Login

Figure 39 Login

Reasonable Spending Suggestion   22

Step	Description
1	Fill "Tên tài khoản" and "Mật khẩu"
2	Click button "Đăng nhập"

2.2.2 View Profile Information

Figure 40 Home Screen

Item	Description
1	Click "Nhập khoản thu" to show add income screen
2	Click "Nhập khoản chi" to show add expense screen
3	Click [icon] to show menu
4	Click [icon] to refresh application, send data to server

2.2.3 Manage Real Expense

Figure 41 Expense List

• Create Real Expense

Figure 42 Income List

Step	Description
1	Fill in fields: - "Tên chi tiêu": Choose expense category. - "Số tiền" : money amount. - "Ngày nhận" : choose the day of income. - "Ghi chú" : description information.
2	Click "Thêm chi tiêu" to add expense

- Update, Delete Real Expense

Figure 43 Update, Delete Expense

Step	Description
1	Fill in fields: - "Tên chi tiêu": Choose expense category. - "Số tiền" : money amount. - "Ngày nhận" : choose the day of income. - "Ghi chú" : description information.
2	Click "Cập nhật" to add expense
3	Click "Xóa" to delete expense

2.2.4 Manage Real Income

Figure 44 Income List

- Create Real Income

Figure 45 Create Income

Step	Description

1	Fill in fields:
	
	   - "Tên thu nhập": Choose income category.
	
	   - "Số tiền" : money amount.
	
	   - "Ngày nhận" : choose the day of income.
	   - "Ghi chú" : description information.

2	Click "Thêm thu nhập" to add expense

- Update, Delete Real Income

Refer to 2.2.3 Manage Real Expense, Update Delete Real Expense

2.2.5 Synchronize Data

Figure 46 Synchronize Data

Step	Description
1	Income, expense is input on mobile but don't send to server because there is no internet connection, is mark by yellow.
2	After check internet connection is on, click refresh button to refresh applicaiton