

BANKING CONSULTANCY

User Requirement

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**HCM City, 10/01/2013**

Record of change

\*A - Added M - Modified D - Deleted

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| **Effective Date** | **Changed Items** | **A\* M, D** | **Change Description** | **New Version** |
| 10/01/2013 | All | A | Create URD | 0.1 |
| 12/01/2013 | Signature page | A | Add originator, reviewer, approval | 0.2 |
| 12/01/2013 | Scope | M | Supplement the homepage website, the web service, the client program | 0.2 |
| 12/01/2013 | Overview | A | Add summary each section in overview | 0.2 |
| 12/01/2013 | Functionality | M | Add more feature for calculate and give advice function. | 0.2 |
| 12/01/2013 | Usability | A | Add usability | 0.2 |
| 12/01/2013 | Performance | A | Add performance | 0.2 |
| 13/01/2013 | Supportability | A | Add supportability | 0.2 |
| 13/01/2013 | Business rule and regulations | A | Add Business rule and regulations | 0.2 |
| 13/01/2013 | Technology rule and limitations | A | Add the programing language and tool IDE | 0.2 |
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SIGNATURE PAGE

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# INTRODUCTION

<This section should provide an overview of the entire document and a description of the scope of the software>

## Purpose

<This section should:

define the purpose of the particular URD

specify the intended readership of the URD>

This document formally describes the user requirements for the conceptual model of a banking consultancy. It describes all main functions which that will be built on this software.

## Scope

<This section should:

identify the software product(s) to be produced by name.

explain what the proposed software will do (and will not do, if necessary) and its deliverables

describe relevant benefits, objectives, and goals as precisely as possible.

Record acceptance criteria and appropriated actions, including concession, when nonconformity is detected>

The software includes 3 main parts.

* The homepage website: This website will collect the information of all banks in an specify area (example in Vietnam). The website shows the list of all banks which are collected. The website has a link for user to download the Client Program (CP) to install on user mobile.
* The web service: this web is invisible with the user. It’s a bridge between homepage website and the CP. The CP will get the information from homepage website through this web service.
* The Client Program: This is the program will be installed on user mobile. The CP requires android OS. The user will interact almost with this software by the CP. The CP will get information of banks from web service and help the user work out the interests, estimate the time which the user need to wait to have their wanted money, list the top 10 banks have the highest interest to help the user easily choose the best bank.

## Definitions, acronyms and abbreviations

<This section should provide the definitions of all terms, acronyms, and abbreviations, or refer to other documents where the definitions can be found.>

Definitions

|  |  |
| --- | --- |
| Client Program | This is a module of software. It will be installed on the user mobile. This module requires the mobile run on Android OS. |
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Abbreviations

|  |  |
| --- | --- |
| URD | User Requirements Document |
| OS | Operating System |
| GUI | Graphic User Inteface |
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|  |  |

## References

<This section should provide a complete list of all the applicable and reference documents, identified by title, author and date. Each document should be marked as applicable or reference. If appropriate, report number, journal name and publishing organization should be included.>

* <http://en.wikipedia.org/wiki/>
* URD Template on <http://cms-hcm.fpt.edu.vn>

## Overview

<This section should:

describe what the rest of the URD contains

explain how the URD is organized>

This URD contains 8 sections:

* **Section 1 – Introduction**: This section introduce generally about this document and this software. It includes purpose of URD; the scope of software; definitions, acronyms and abbreviations in URD; list of all reference document or website; and the overview to list all sections in this URD.
* **Section 2 – functionality**: This section describes detail of all software’s functions. There are 3 main functions and an extra function. In the main function **Calculate**, there are 2 options for user: calculate the money and range time.
* **Section 3 – Usability**: This section describes the non – functions usability of software. How is the user easy to use this software?
* **Section 4 – Reliability**: This section describes the non – functions reliability of software. The probability that software will work properly in specified environment and for given time.
* **Section 5 – Performance**: This section describes the non – functions performance of software. How long is response time? How much capacity that this software can load?
* **Section 6 – Supportability**: This section describes the non – functions supportability of software. How the software help the user to resolve the problem.
* **Section 7 – Business** **rule and regulations**: This section describes all business rule and regulations that relate to this software.
* **Section 8 –Technology rule and limitations**: This section describes the technology that is needed and the limitations of this software.

# FUNCTIONALITY

## <Request number one>

<A brief description of the request. Notes on what decisions have been made on it and how the request will be considered.

Each requirement must be uniquely identified. Forward traceability to subsequent stages in the life cycle depends upon each requirement having a unique identifier.

Essential requirements have to be met for the software to be acceptable. If a requirement is essential, it must be clearly flagged.

Some user requirements may be ‘suspended’. These requirements must be clearly flagged.

The priority of a requirement should be used. These are related to the order, or the timing, of the related software becoming available.

The source of each requirement must be stated. The source may be defined basing on information supplied by customer (email...)

Each user requirement must be verifiable. Each statement of user requirement should contain one and only one requirement. Define clearly criteria which can be used for verifying requirement.>

* **Statistic**: the software shows the list of all banks with related information (e.g. name, address, telephone, interest, homepage …) and allow the user can sort by some attributes. This function requires internet connection to ensure that information will be always up to date.
* **Calculate**:
  + Money: The user will enter the bank’s name or bank’s ID, deposit, and range time. The software will calculate their saving money after that time. If the bank does not exist in list, the user will enter the information of bank. The information of bank must have the interest.
  + Range time: The user will enter the bank’s name or bank’s ID, deposit, withdraw money. The software will calculate the time you need to wait for them. If the bank does not exist in list, the user will enter the information of bank.
* **Give advice**: The software will list top-down 10 banks that have the highest interests. The user can easy to choose the bank that helps them to get the best benefit.
* **Bank locate**: This is an extra function. The software will locate all of banks or the specific bank around current user’s location and show in map. This function requires the user mobile has supporting from GPS.

# USABILITY

## <Request number one>

<A  brief description of the request. Note of what decision has been made on it and how the request will be considered.>

The GUI is designed friendly with user. The user can see all main functions at the first time using. Because the GUI is divided into 2 parts:

* Part 1: occupy 20% the screen on the left. It shows 3 buttons represent for 3 main functions of software.
* Part 2: occupy 80% the screen on the right. It’s the place that shows list of banks or input fields for calculating.

# REliABILITY

## <Request number one>

<A brief description of the request. Note of what decision has been made on it and how the request will be considered.>

The software get bank’s information directly from its website (or web service) and the formula of calculate is guaranteed accurately 99.99%. Every change of bank’s information will be updated immediately, so the user don’t worry about out of information.

# PERFOMANCE

## <Request number one>

<A brief description of the request. Note of what decision has been made on it and how the request will be considered.>

* The list of banks only update when the bank’s information has a change (e.g. interest, telephone…). This non – function helps to reduce the delay time when downloading list. Thus, the response time will short and the user don’t waste of time to waiting.
* The information of banks will be optimized to reduce the capacity downloading. It helps user to saving money in using GPRS.

# SUPPORTABILITY

## <Request number one>

<A brief description of the request. Note of what decision has been made on it and how the request will be considered.>

The software supports user can contact with the bank through telephone or supporting online by yahoo, Skype …

# BUSINESS RULES AND REGULATIONS

## <Reference number one>

<A brief description of the reference. Note of what decisions have been made on it and how the reference will be considered. >

All information in this software is used to reference. The user must do all transactions directly at the bank. The software does not receive any money from user or bank.

# TECHNOLOGY RULES AND LIMITATIONS

## <Reference number one>

<A brief description of the reference. Note of what decisions have been made on it and how the reference will be considered. >

* The Homepage website and web service is coded by ASP .NET language. It uses IDE Microsoft Visual Studio 2010.
* The information of banks is stored on DBMS SQL Server. It uses MS SQL Server 2008.
* The Client Program is coded by Java language. It uses IDE Eclipse.