

BANKING CONSULTANCY

User Requirement

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| 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 |
| 13/01/2013 | All | M | Review all sections and check grammar | 0.2 |
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SIGNATURE PAGE

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# INTRODUCTION

## Purpose

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

The software includes 3 main parts.

* The homepage website: This website will collect the information of all banks in a 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

Definitions

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| 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 Interface |
| CP | Client Program |
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## References

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

## Overview

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

## View banks:

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.

## Locate bank:

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

The normal users, who has a base knowledge about using application on Android, can use this software effectively after training an hour.

The power users, who has more experiences in using application on Android, can use this software effectively after training 15 minutes.

# REliABILITY

## Availability

The user can use this software any time. The website service is always available 24/24.

## Mean Time between Failures – MTBF

The predicted elapsed time between inherent failures of this software is a year. Each year only happens a failure.

## Mean time to repair – MTTR

The system is allowed to be out of operation after 1 hour since it has failed.

## Accuracy

The result of calculating is accurate 97%. The information of banks depends on banks’ website because this software automatically gets information from website of banks.

## Maximum Bugs or Defect Rate

The bugs per thousand of lines of code is 7 Bugs/KLOC

# PERFORMANCE

* The list of banks only update when the bank’s information has changes (e.g. interest, telephone…). This non – function helps to reduce the delay time when downloading list. Thus, the response time will be improved and the users don’t waste of time to waiting.
* The information of banks will be optimized to reduce the capacity downloading. It helps user to saving internet cost.

## Response time

The response time for a transaction in average is 1 to 2 seconds. In the best case, the response time can be 0.5 seconds.

## Throughout

The speed of download the list of banks depends on the speed of user connection Internet.

## Capacity

The website service allows 1000 users download list of banks’ information at a given time. After downloading, the user can use any functions of software on their mobile.

# SUPPORTABILITY

The software supports user can contact with the bank through telephone or supporting online on Yahoo or Skype.

# BUSINESS RULES AND REGULATIONS

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

* 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.