***Software Requirements Specification***

**Online Banking System**

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Introduction

This section gives a scope description and overview of everything included in this SRS document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

Purpose

The purpose of this document is to give a detailed description of the requirements for the “Online Banking System” (OBS) software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints and interactions with other external applications.

Scope

The “Online Banking System” is a financial security-based PC application which makes people to share the services from the bank without walking out home. The software needs both Internet and valid bank account to normally functioned. All personal information and upload documents during operation are only for verification and recognition, which is absolutely save and were not leak outside. However, the application could not be download now, due to it is not exist.

Terms and abbreviation

|  |  |
| --- | --- |
| OBS | Online banking system |
| FO | Financial operation |
| AM | Account management |
| Invoice device | Use phone to store invoice (means business log) |
| Stock exchange | A place to invest (means all investments) |
| Voice channel | A platform provides help by instant voice |
| Sub-system | Independent from OBS, which is small and easy |
| Credit center | An institution records a person’s credit |
| Bank No. | A number represents different bank |
| PMs | Person months |

Overall description

This section will give an overview of the whole system. The system will be explained in its context to show how the system interacts with other systems and introduce the basic functionality of it. At last, the constraints and assumptions for the system will be presented.

Product perspective

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自動產生的描述This system is an ATM like system. We add most of existing functions into our system and a few special functions. First, users have to login the system with bank account and password. And then, the system will connect to the bank background database to access the user’s account control right. Second, users choose the function they need and follow the next stage indications.

We divide all functions into three parts, that is Financial Operation, Account Management, and Other.

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自動產生的描述一張含有 文字, 白色 的圖片

自動產生的描述一張含有 文字, 地圖, 室內, 白色 的圖片

自動產生的描述

Product functions

What would users want:

1. Move money from account to account 🡪 Money transference
2. Borrow money from bank 🡪 Loan
3. Apply credit card 🡪 Credit card application
4. Check account owner/remainder 🡪 View account information
5. Trace money-flow 🡪 Check transaction log (sub-function in view account)
6. Change account password/security password/link with e-mail address 🡪 Security
7. Stock market 🡪 Investment
8. Pay national bill at home 🡪 Bill payment
9. Convenience 🡪 Support mobile payment

Analysis:

* Money transference, loan, bill payment, investment 🡪 Financial operation
* View account information, security 🡪 Account management
* Credit card application 🡪 Online application system
* Support mobile payment 🡪 sub-system link with external mobile pay devices
* Online customer service 🡪 other help

(handle the problems from users about the system)

Requirements

Implement the functions includes

1. Financial operation

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自動產生的描述Money transference

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自動產生的描述Loan

一張含有 文字, 地圖 的圖片

自動產生的描述Bill payment

一張含有 文字, 地圖, 室內, 桌 的圖片

自動產生的描述Investment

1. Account management

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自動產生的描述View account information

一張含有 文字, 室內, 地圖, 桌 的圖片

自動產生的描述Security

1. 一張含有 文字, 地圖, 桌, 白色 的圖片

   自動產生的描述Online application system
2. 一張含有 文字, 白色, 桌, 黑色 的圖片

   自動產生的描述Support mobile payment
3. 一張含有 室內, 白色, 相片, 公開 的圖片

   自動產生的描述Online customer service

一張含有 白色 的圖片

自動產生的描述一張含有 文字, 地圖 的圖片

自動產生的描述一張含有 文字, 地圖 的圖片

自動產生的描述Use case diagram

一張含有 文字, 地圖, 桌, 白色 的圖片

自動產生的描述一張含有 桌, 書, 覆蓋, 男人 的圖片

自動產生的描述一張含有 文字, 地圖, 桌, 抽簽 的圖片

自動產生的描述Sequential case diagram

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自動產生的描述一張含有 直立的, 坐, 白色, 桌 的圖片

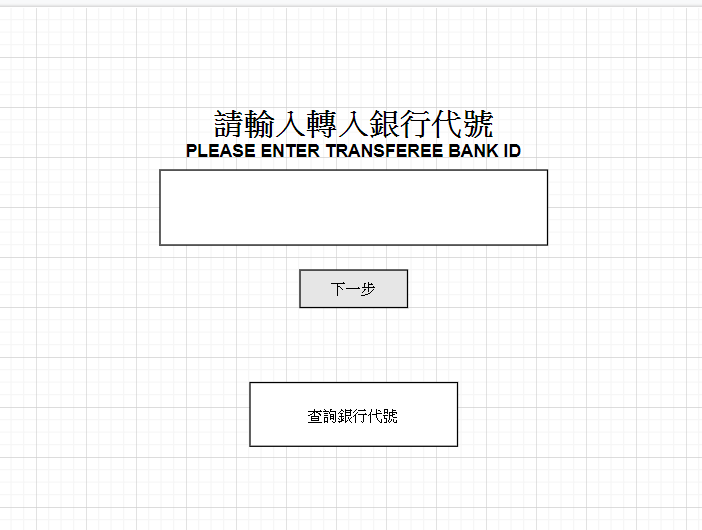
自動產生的描述Constraints and extended

There is a lethal problem that we cannot instantly deposit or withdraw money from OBS. Thus, the field of physical money usage is not we should focus on. Instead, we support mobile payment device. We make attempt to link bank account to a mobile payment application, which indirectly make account money a use.

Specific requirements

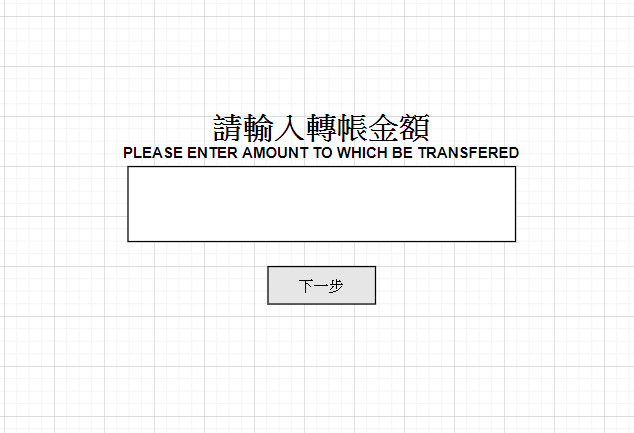
This section contains all functional and quality requirements of the system. It gives a detailed description of the system and all its features.

Graphical User Interface

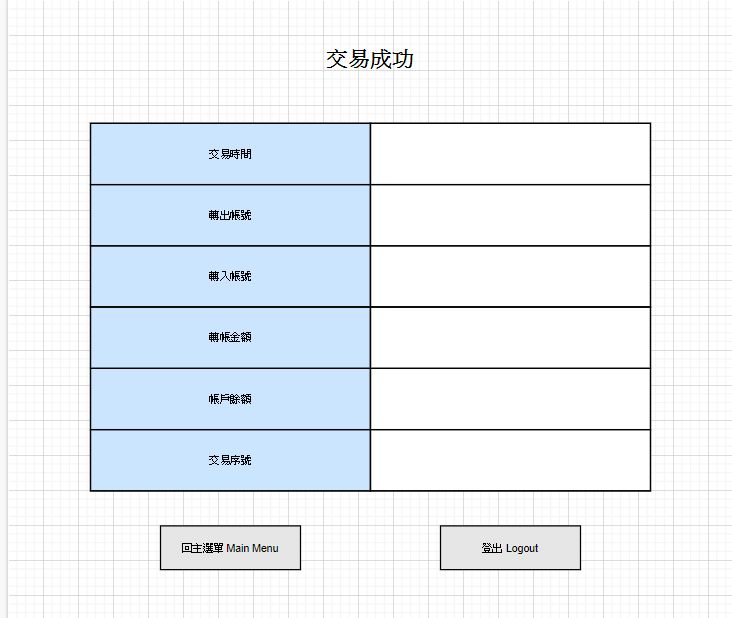
Money transference

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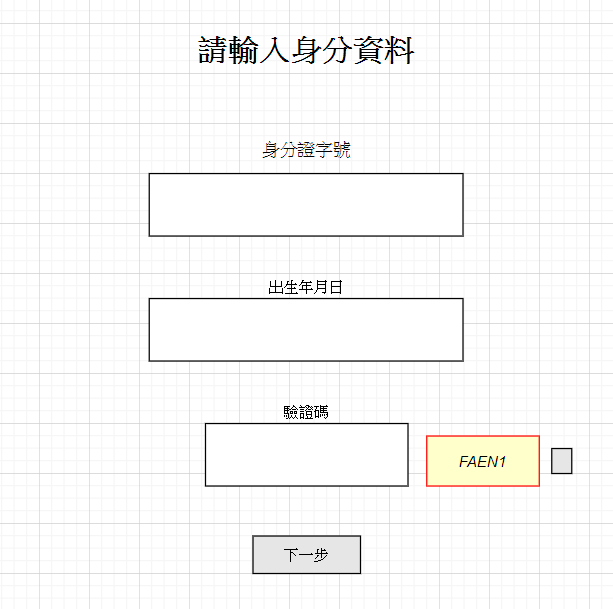
自動產生的描述







Loan

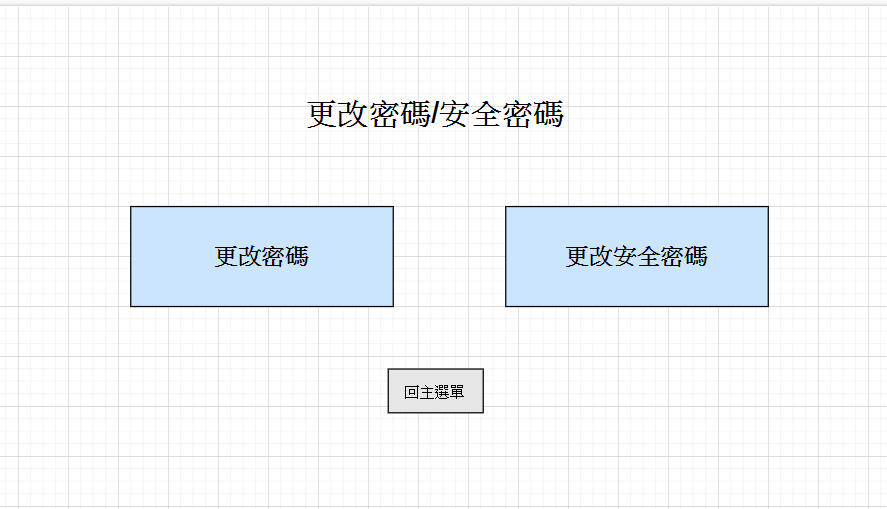


Credit card application

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自動產生的描述

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自動產生的描述Security

Investment

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自動產生的描述

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自動產生的描述Mobile payment link

Bill payment system

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自動產生的描述一張含有 遊戲, 白色, 房間 的圖片

自動產生的描述

一張含有 螢幕擷取畫面 的圖片

自動產生的描述

View account information

一張含有 側邊, 坐, 白色, 黑色 的圖片

自動產生的描述

一張含有 螢幕擷取畫面 的圖片

自動產生的描述

Online customer service



一張含有 黑色, 相片, 手機, 監視器 的圖片

自動產生的描述

Cost for design

We use COCOMO model to estimate some figure about OBS.

OBS is an organic project type.

Suppose the size of our project is 150 thousand lines of code. Thus, we get KLOC = 15

Effort = 2.4(KLOC)1.05

E = 2.4 \* (400)1.05 = 2.4 \* 192.70 = 462.5(PMs)

Development time = 2.5(Effort)0.38

D = 2.5 \* (462.5)0.38 = 2.5 \* 10.30 = 25.7(Months)

Summary

Finally, we finished construct the whole thoughts of OBS. We build functions which meets users’ requirements, also add some new function in it. We adopt direct way and simple UI to speed up the process of banking. Compare to physical bank, this system greatly shortens the time on waiting in line. Thus, we can say our project is match to the customers’ expectation.