<A BIDV based Smart Banking app>

Supplementary Specification

Version <1.0>

Revision History

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Supplementary Specification

# Introduction

## Purpose

The purpose of this document is to clarify the requirements of the BIDV Smart Banking application. This Supplementary Specification captures the system requirements that are not readily captured in the use cases of the use-case model

## Scope

This Supplementary Specification applies to BIDV Smart Banking application

The BIDV Smart Banking application will allow users to transfer money, open online savings, top up, withdraw online, register recurring payment,…

This Supplementary Specification defines the non-functional requirements like usability, reliability, performance, supportability, applicable Standards,.. as well as functional requirements(transfer money, change password, pay with QR code, buy film ticket,…)

## Definitions, Acronyms, and Abbreviations

App: application

BIDV Smart Banking: Bank for Investment and Development of Vietnam Smart Banking

## References

None

## Overview

The supplementary specification document is divided into different sections including Functionality, Usability, Reliability, Performance, Supportability, Design Constraints, Online User Documentation and Help System Requirements, Purchased Components, Interfaces, Licensing Requirements, Legal, Copyright, and Other Notices, Applicable Standards.

The Functionality Requirements describes the attributes, behaviors and relationship in each of use-case of the systems. This section will be organized by features or by users or by administration system.

Usability section describes the conveniences for user accessing

Reliability section describes availability (percentage of time available, hours of use, and maintenance access), mean time to prepare mean time between failures, accuracy, maximum bugs or defect rate

Performance section uses FIG figures to describe the performance characteristics of the system.

Design Constraints indicates any design constraints on the system being built. Such as software languages, software process requirements, prescribed use of developmental tools, architectural and design constraints.

Online user documentation describes the requirements for on-line user documentation and help systems requirements.

Purchased Components describes any purchased components to be used with the system, any applicable licensing or usage restrictions, and any associated compatibility/interoperability or interface standards.

Licensing Requirements, Legal, Copyright, and Other Notices section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, wordmark, trademark, or logo compliance issues for the software.

Applicable Standards section describes by reference any applicable standards and the specific sections of any such standards that apply to the system.

# Functionality

## Transfer money

## Open online savings

## Withdraw online saving

## Top up

## Buy film ticket

## Change password

## Pay with QR code

## Register a recurring payment

# Usability

This section should include all of those requirements that affect usability

## < Published in Web service and Application >

People can use in 2 different platforms

## < Ease-of-Use >

The GUI is ease to access and manipulate, the screen is flexible on mobile phone and web page. The GUI layout is suitable, clear and ease to read

## < Online supporter >

This action will instruct the users step by step using this app or any problem they are wondering

# Reliability

This part details the reliability of requirements

## <Availability>

The BIDV Smart Banking app is available 24 hours a day and 7 days a week

## <Mean time between failures>

Mean time between failures exceed 300 hours

## <Mean time to repair>

Mean time to repair is less than 10 hours

## <Accuracy>

It should be high accuracy with 99.9%

# Performance

The performance characteristics of the system should be outlined in this section

## <Response time for a transaction>

It responses immediately when the transaction ends

## <Capacity>

The system can support up to 20000 simultaneous users any given time, and up to 3000 simultaneous users at any one time.

## <Responding time of database>

It will be less than 10 seconds

# Supportability

This section indicates any requirements that will enhance the supportability or maintainability of the system being built, including coding standards, naming conventions, class libraries, maintenance access, maintenance utilities

## <Updating new version>

New version will be downloaded from the CHPlay or AppStore

## <Maintenance>

This application will be maintained by IT developers by updating and maintaining code

# Design Constraints

This section needs to indicate any design constraints on the system being built

## <Course Catalog Legacy System>

The system shall integrate with existing legacy system which conducts by the company

## <Platform Requirements>

This application needs more than 52 MB space including disk space and RAM on mobile phone as well as other devices

## <Internet Browser>

The web-based interface for the BIDV Smart Banking System can run in all browsers

# Online User Documentation and Help System Requirements

Online help will support and provide users all the documents, guidelines, as well as instruction when they request

Readme files and release notes are willing to be delivered to the user in each release.

# Purchased Components

The IMC.ERP data management software ensures that the bank operates professionally and successfully in accordance with each user's specific needs

With QoreStor, you may utilize cloud storage (also known as "Cloud Storage") for data backup, archiving, and disaster recovery while also increasing backup performance and lowering storage needs and expenses. Additionally, QoreStor reduces replication time, enhances data security, and aids in meeting compliance standards

# Interfaces

## User Interfaces

* + 1. All interaction with the bank will occur through a app-based interface.
    2. The bank will be accessed through a secure user interface requiring the login name and password

10.1.3 Any unexpected system operation will be announced to the user with an error web page or a

message or via uses’ email

10.1.4 The layout of the web interface will conform to a standard screen

## Hardware Interfaces

Only the server and database servers given will be used for communication by the bank. The operating system and any other supplementary software systems will handle directly.

## Software Interfaces

10.3.1 The BIDV smart banking will interface with Microsoft SQL Server for database interactions

10.3.2 The BIDV smart banking will utilize Microsoft IIS 6.0 to deliver HTML content to users

10.3.3 The BIDV smart banking will access Microsoft Active Directory via the LDAP protocol for user authentication.

10.3.4 The BIDV smart banking will provide support for communication with Microsoft Exchange Servers for email notification and calendar synchronization.

10.3.5 The BIDV smart banking will provide support for database interaction with a third-party property management system.

10.3.6 The BIDV smart banking will provide a standardized API so that third-party programs may access information programmatically from the bank system

## Communications Interfaces

Systems for interacting with the server via HTTP and HTTPS are provided by the ASP.Net framework.

# Licensing Requirements

Users do or do not pay the $15,000 annual support charge when using.

# Legal, Copyright, and Other Notices

This section describes any necessary legal disclaimers, warranties, copyright notices, patent notice, wordmark, trademark, or logo compliance issues for the software:

The app will be released as open source under the GNU GPL (GNU General Public License).

GPL declares that this license document may be copied and distributed verbatim by anybody, but modifications are not permitted. Microsoft products will be used in the development of software, which complies with the Microsoft Software License. Distribution of any part of the software is prohibited unless Synergy benefits financially. The software's copyright, trademark, and patent notices must all be complied with.

# Applicable Standards

All documents should refer to the IEEE and RUP standards

ASP.NET and web standards