MYTAXI SYSTEM

Supplementary Specifications

Version 0.1

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Summary of Change | Author |
| 07 Jun, 2016 | 0.1 | Initial version | Tu Le  Nghi Phan  Phuong Do  Duyen Phan |

Distribution for Review/Approval

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Title & Company | Issue Version | Issue Date | Review Date | Approval Date |
| Doan Vo | BA Lead - BAC | 0.1 | 07 Jun, 2016 | 09 Jun, 2016 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Contents

[1 Introduction 4](#_Toc388072525)

[1.1 Purpose 4](#_Toc388072526)

[1.2 Scope 4](#_Toc388072527)

[1.3 References 4](#_Toc388072528)

[2 Non-Functional Requirements 4](#_Toc388072529)

[2.1 System Requirements 4](#_Toc388072530)

[2.2 Usability 4](#_Toc388072531)

[2.3 Reliability 4](#_Toc388072532)

[2.4 Performance 4](#_Toc388072533)

[2.5 Supportability 4](#_Toc388072534)

[2.6 External Interfaces 4](#_Toc388072535)

[2.7 Documentation Requirements 4](#_Toc388072536)

[2.8 Design Constraints 4](#_Toc388072537)

[2.9 Licensing Requirements 4](#_Toc388072538)

[3 Common Functional Requirements 4](#_Toc388072539)

# Introduction

## Purpose

This document presents the non-functional requirements of a system such as Usability, Reliability, Performance, Supportability, etc.

The purpose of this document is to define all common functional requirements of a system

The purpose of the Supplementary Specification is to capture the system requirements that are not readily captured in the use cases of the use-case model. It includes requirements such as legal and regulatory requirements, application standards, quality attributes of the system to be built (usability, reliability, performance, and supportability requirements) and other requirements such as operating systems and environment, compatibility requirements and design constraint.

## Scope

This Supplementary Specification applies to the MyTaxi System, which will be developed by the FBA13-1 development team. The FBA13-1 team will develop this application on both desktop and mobile. The mobile should focus on the daily operation of the business while the desktop module will focus on managing and reporting for Administrators.

The scope of this document does include describing fully what the software system will do, but on how it will do, by describing nonfunctional requirements such as security, reliability, extensibility, and performance.

## References

Applicable references are:

1/ Vision\_v0.1

2/ Glossary\_v0.1

3/ Use Case Model\_v0.1

# Non-Functional Requirements

## System Requirements

|  |  |  |  |
| --- | --- | --- | --- |
|  | Operating Systems | Screen resolutions | Browsers |
| PCs | - Windows 7 - MAC OS | 1024 x 768 | IE 11 or newer  Firefox 46.0.1  Chrome newer version |
| Mobiles | - iPhone (iOS 7 or newer) - Android (Android 5.0.1) - BlackBerry (BB OS 7 only) | 5” |  |

## Usability

* Online User Documentation and Help System Requirements:

Online support concerning administration issues & user tutorials including “How to” guides and “Tip of the Day” will be available.

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

User guides and Administration guides are to be provided per customer request.

## Reliability

* The reliability soft goal is divided into accuracy, integrity, and availability. Accuracy involves consistency and availability provides protection against DOS attack relays on the firewall. Integrity covers completeness such as data validation, efficiency, and consistency. And availability provides protection against DOS attack relays on the firewall.
* The system should store and retrieve information accurately as provided by the user.
* In the event a user’s session times out, any task which requires future dependent information shall be cancelled.

## Performance

* Response time for a transaction: no more than 5 seconds of perceivable overhead time to any necessary web and database transaction time
* Throughput: In the event the complete SDMS transaction requires longer than 5 seconds, the system shall display an informational messages requesting they continue waiting for a response

## Supportability

* Coding conventions
* Naming conventions
* Common libraries
* Service oriented design

## External Interfaces

* Communication interfaces to other systems or devices via network/3G

## Design Constraints

* Architecture: MVC and Client-Server
* Programming languages: Microsoft Software Agreement: ASP.NET 4.6, MVC 6, Microsoft SQL Server 2015, Visual Stdio 2015, Emtity Framework 6.1.3, Android Studio 2.1, SDK, Xcode 4.0.
* 3rd party components: payment API, Google API, Facebook API.

## Documentation Requirements

* Online User Documentation and Help System Requirements:
* Online support concerning administration issues & user tutorials including “How to” guides and “Tip of the Day” will be available.
* Readme files and release notes are to be delivered to the customer in each release.
* User guides and Administration guides are to be provided per customer request.

## Licensing Requirements

* All software used to develop the SDMS will comply to the software license agreement.
* Microsoft Software Agreement: ASP.NET, Microsoft Windows Server
* Open source Agreement: GNU GPL

# Common Functional Requirements

* Security:

The security soft goal is divided into confidentially, integrity, and availability. To cover confidentiality it’s important to achieve authentication, users are required to log into the system by providing username and with strong password, it also provides site key and account lockdown to prevent unauthorized users. Integrity covers completeness such as data validation, accuracy, and consistency.