**SUPERIOR UNIVERSITY LAHORE**

|  |
| --- |
| Superior Logo |

**Faculty of Computer Science & IT**

**Final Year Project**

**PROJECT REPORT (Part-2)**

**[Online Courier Service]**

Project ID:**[FYP-BSCS-F20- ]**

**Project Team**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Student ID** | **Program** | **Contact Number** | **Email Address** |
| Usama Saleem | Bcsm-f15-358 | BSCS | 0307-4818464 | usamamalik2117@gmail.com |
| Haris Ali | Bcsm-f16-368 | BSCS | 0306-4099746 | malikharisali59@gmail.com |
| Bareera | Bcsm-f16-187 | BSCS | 0305-1568076 | beeranoor24@gmail.com |

**Hafiz. Waseem Arif** (Professor)

# Chapter 2

# Software Requirement Specifications

**Chapter 2:** Software Requirement Specifications

## Introduction

## Purpose

The purpose of this documentation is to provide detailed knowledge about our software system requirements, functional and non-functional requirements. This document contains introduction, description of our project, External Interfaces that will explain the user interaction with our system, functional requirements, features our system will provide, and it contains the non-functional requirements section, which will explain the efficiency and effectiveness of system.

“OCS” app provides a platform where user can easily interact with the system.

People can select the company through which they wanted to send courier and can have a person provided by this app on their doorstep. A private code will be assigned after a user request only user will know it or the person who is going to collect. It would be highly efficient and flexible.

## Document Conventions

This document follows Calibri format and the font size is 12. Bold-faced text has used to emphasize sections and italicized text has used to label and recognize diagrams and the all text are justified.

## 

## Intended Audience and Reading Suggestions

Many people will read this document like:

* Team Manager
* Team Leader
* Developers
* Testers
* Users

The documentation has been organized approximately in order of increasing specificity.

* Scope of product
* Functional requirements
  + Use cases
  + DFDs
* Non-functional requirements

## Product Scope

In OCS (online courier system) some major functions will used be used to meet the people

* **Online request for collection of parcel**
* **Select courier company**
* **Private code generation**

## References

This document is formed by helping from these sites and documents:

**•https://s3.amazonaws.com/ppt-download/documentation-e-voting-160128182304.pdf?response-content-disposition=attachment&Signature=EGt0FD4cCAfSKRsuwHB9HYQ%2F%2FXs%3D&Expires=1546557816&AWSAccessKeyId=AKIAIA5TS2BVP74IAVEQ**

• IEEE standard document for software requirement specification.

## Overall Description

## Product Perspective

Online courier system (OCS) is an android application through which a person can courier a parcel by sitting at home after installation. Normally, if a person want to send something to anyone he has to go to the courier office and has to submit it he himself has to find office and then has to go there. And if a person install this application (OCS) he does not need to go anywhere he would just install this app he just call at the given contact number and that application will provide him the code and cell phone number of that particular person who is going to receive his courier from the house and then after asking the code he can easily handover the courier after getting the receipt and it will reach at his required destination.

## Product Functions

In OCS (online courier system) some major functions will used be used to meet the people

* **Online request for collection of parcel**
* **Select courier company**
* **Private code generation**

**Online request for collection of parcel**

The user can easily request for the parcel after installing this application is his phone. After requesting , A courier man will reach them and collect that parcel and will deliver it wherever and through which courier company they wanted to send it.

**Select courier company**

As we discuss it before, who wanted to send any parcel and requested for it , they can choose any courier company from where they want to send it.

**Private code generation**

When a person will request for a parcel to deliver, after requesting they will get to know about a private code which is only for that particular parcel. The courier man will tell them that specific code and make the necessary documentation like signature or any other documentation and then you can easily handover parcel to that person.

## User Classes and Characteristics

There is one type of user interacting with the system which will be admin.

Following are the characteristics of the system:

• Easy to use.

• Do not require any technical expertise.

• Do not require any special knowledge to just send a parcel.

## Operating Environment

This application will easy implement on all android devices.

## User Documentation

The following are the leaflets

* User manual
* Project documentation
* Implementation details

## Assumptions and Dependencies

Following are the some

1. The “OCS” application will be that much simple(complexity level is low)
2. Ambiguity must be minimized in this app.
3. Operations must be easy and operate-able by the end user.

## Communications Interfaces

## System Features

## System Feature 1

Sign In & Sign Up Registration

## Description and Priority

Sign In & Sign Up Registration is the most important part of this project because of fake user entry and duplications of user violates. Sign In & Sign Up Registration proves in this era that no one has the same identification.

## System Feature 2

User ID

## Description and Priority

* User ID is also the most important part of this project because of fake user entry and duplication of user violates as well. This specification allows this project a new approach to collect fair result.

## Stimulus/Response Sequences

* You can also Booking Courier through OCS.
* The software automatically detects the User ID for Sign in.

## System Feature 3 (and so on)

Data Analysis

## Description and Priority

In data analysis, we can easily analysis the Courier Booking and other desired information. It will be very useful in next Courier Booking.

## Stimulus/Response Sequences

* Data Analysis will store the data of Courier Booking. It can be their Courier Company, department, resignation.
* OCS will store the data in its database.

## Functional Requirements

REQ-SF2-1: <Software Capacity> Its capacity will be available to execute feature efficiently.

REQ-SF2-2: <Other Requirements are under consideration>

|  |  |
| --- | --- |
| **Identifier** | **FR-01** |
| Title | Registering User ID |
| Requirement | Details of Sender and Receiver ( House and city and Mobile #) |
| Rationale | BMS |
| Restrictions and Risks | Couriers Booking Only once |
| Dependencies | Nil |
| Priority | High |

|  |  |
| --- | --- |
| **Identifier** | **FR-02** |
| Title | Data Analysis |
| Requirement | Store the information of Couriers |
| Rationale | Storing |
| Restrictions and Risks | No repetition of data |
| Dependencies | Nil |
| Priority | Medium |

## Other Nonfunctional Requirements

## Performance Requirements

The software should be available in minimum down-town. The software should provide the user with appropriate error messages and should handle run-time exception in a controlled manner in order to avoid abnormal termination.

## Safety Requirements

The software should be designed and developed in such a way that it remains highly maintainable, flexible and future enhancements can be easily incorporated.

## Security Requirements

The software should provide protection against unauthorized access.

## Software Quality Attributes

* “OCS” is an application and it is required to be deployed once on a system and then it can be easily accessed by user without any other installation.
* “OCS” offers high portability and later can be moved to different systems if required.

## Business Rules

As we know this system consists of two ways of voting. One is through bio metric and the other one is face recognition. Both will work alternatively, if one does not work then the other will perform the task.

## Other Requirements

* Usability
* Robustness
* Flexibility

# Chapter 3

# Use Case Analysis

**Chapter 3:** System Analysis

In this chapter all the functions of “OCS” system describe with their features and their access to administrator and user, their limitation their capacity.

## Use Case Model

Figure 1:



C:\Users\haris\Desktop\cartoon.PNG



VENDOR





C:\Users\haris\Desktop\new.PNG

ADMIN





C:\Users\haris\Desktop\cartoon.PNG

USERS

Fully dressed use case

Fully dressed use case1

<<include>>>>

<<include>>>>

<<include>>>>

<<include>>>>

Figure 2:



C:\Users\haris\Desktop\cartoon.PNG

admin

Fully dressed use case 2

figure 3:

<<include>>>>

<<include>>>>

<<include>>>>

<<include>>>>

C:\Users\haris\Desktop\cartoon.PNG

users

Fully dressed use case 3

Figure 4:



<<include>>>>

<<include>>>>

<<include>>>>

<<include>>>>

C:\Users\haris\Desktop\cartoon.PNG

vendor