|  |  |  |
| --- | --- | --- |
| **المملكة العربية السعودية**  **وزارة التعليم العالي**  **جامعة الإمام محمد بن سعود الإسلامية**  **كلية علوم الحاسب والمعلومات** | A description...  **Second term 1441/2020** | **KINGDOM OF SAUDI ARABIA**  **Ministry of Higher Education**  **Al-Imam Mohammad University**  **College of Computer & Information Sciences** |
| **Software Engineering (CS- 310)**  **BSCS- Section: 171**  **Project-Phase No: 1**  **Ecrops**  **(Software Requirements Specifications)** Submitted By  |  | | --- | | Waleed Al-Dukhail (439014124) – Coordinator **(437013846)** **Abdallah Sultan Alenzi**  **(439016631) Mohammed Algrain**  **Turki Alhoshan (439023714)**  **(439013290)** **Abdulrahman Suleiman Alorf** SupervisorDr. Sultan AlqahtaniDate: 20/10/2020 | | | |

**Table of Contents**

1.0 Introduction ……………………………………………………………………………………………………………………….………3

1.2 Team Members .........................................................................................................3

1.2 Purpose…………………………………………………………………………………………………………..…….3

1.3 Definitions, Acronyms, and Abbreviations………………………………………………………...….3

1.4 Challenges …………………………………………………………………………………………………………...4

2.0 Software Requirements Specification............................................................................................5

2.1. Product Perspective .................................................................................................5

2.2. Product Functions......................................................................................................6

2.3. User Characteristics ..................................................................................................6

3.0 Functional Requirements Specification..........................................................................................7

3.1 Stakeholders.........................................................................................................7

3.2 Actors and Goals...................................................................................................7

3.3 Use Cases…………………………………………………………………………………………………………8

4.0 Non-Functional Requirements Specification..................................................................................10

1.0 Introduction

Ecorps is an application made for farmers and farm owners to sell their goods directly to the consumers without the hassle of selling it in the street in dirty cars or giving it to specific stores with high commissions , in Ecorps everyone can buy their favorite vegetables or fruits or even dairy products from their favorite farms registered in the app with many choices available , which can truly transform regular farms to smart and efficient farms.

**1.1 Team members**

* Waleed Al-Dukhail (The Group’s Coordinator ) : the idea maker and the task Distributor
* Mohammed Algrain : helped with identifying the challenges and Stakeholders
* Abdulrahman Suleiman Alorf : helped with identifying the main user goals
* Abdallah Sultan Alenzi : helped with identifying the challenges
* Turki Alhoshan : helped with identifying the Stakeholders and key goals

**1.2 Purpose**

The main purpose of this application is to make farmers life easy and more efficient to contribute directly to the society, so consumers can easily access and view the farms crops and goods and also dairy products with a lot of options including organic options.

**1.3 Definitions, Acronyms, and Abbreviations**

|  |  |
| --- | --- |
| Term | Definition |
| Stake Holder | a person with an interest or concern in the application. |
| Requirement | the description of what the system should do. |
| Functional Requirement | specific services or functions the system must provide. |
| Non- Functional Requirement | constraints on the services or functions offered by the system |

**1.4 Challenges**

Here’s some challenges that we might face during the make of our application :-

**• Long time to purchase a product**

Consumers find it difficult sometimes to search for a specific product in the market, after finding this product usually it takes time to purchase this specific product because having the client waiting in a queue for the procedure would take time, and it will be a waste of time and effort for them. In Ecrops application customers will find product information and searching methods that will help them to find what they are looking for faster and ordering will be much easier.

• **Poor quality and lack of productivity**

Ecrops supplier’s supervisors have difficulty knowing the best-selling products specially if it’s farm far away from the city , the Ecrops application will provide suppliers supervisors with more detailed, accurate and up-to-date best seller products. They will be informed of potential customers more quickly and they will have faster access to the sold products and they interact with suppliers to inform them about sales and profits.

**• Poor customer service**

Customer Service Department in the markets are defective, and the new system should reduce the workload of Customer Service as customers are able to find the information they need from the application, so we provided a live chat between suppliers and customers to interact with each other directly for faster response.

**•Delivery delay**

The delivery staff delays in delivering orders because of the delay in receiving orders and the lack of delivery representative, In the application purchase information will be sent directly to delivery staff for inventory control and order processing faster.

• **Lack of experience in the IT department** The Information Technology Department faces a lack of staff, experiences and advanced devices, But in the new system this department will be responsible for implementing the new database, hosting the application and maintaining the system professionally because its supported by the latest devices and with IT staff having certifications and experience

2.0 Software Requirements Specification

**2.1 Product Perspective ( Turki )**

**2.2 Product Functions ( Abdulrahman )**

**2.3 User characteristics ( Abdallah )**

3.0 Functional Requirements

**3.1 Stakeholders**

•Clients: view and purchase products.

•Suppliers: sell products.

•Delivery staff: deliver products to clients.

•Ecrops Database: keeping records of user’s data.

•Administrator: who is responsible for ensuring that system information can be maintained and preserved and that record keeping procedures have been properly implemented.

•Managers: ensuring free flow of communication and efficient use of resources.

•IT staff: who are responsible for installing and maintaining the system.

•Health organization: who obtain management information from the system.

•Supplier supervisors: keep in contact with the suppliers to ensure quality and continuity of supply.

•Client supervisors: keep in contact with clients.

•Accounting staff: recording financial transactions and keeping track with any transaction issues.

**3.2 Actors and Goals**

|  |  |  |
| --- | --- | --- |
| Actor | Type | Goal |
| Client | Initiating | View and purchase products |
| Supplier | Initiating | Sell products |
| Mada system | Participating | Confirming payments through its bank system |
| Administrator | Initiating | Ensuring that system information can be maintained and preserved |
| GPS system | Participating | Provides user’s geolocation and time information to a GPS receiver |
| Ecrops Database | Participating | Keeping records of user’s data |

**3.3 Use Cases ( Waleed & Mohammed )**

4.0 Non-Functional Requirements