**Software Requirements Specification**

Version 1.0

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Love Fruits Association System

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<<we made this SRS to describe the system and its services>>

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1. **Introduction**
   1. **Purpose**

The purpose of this document is to present a detailed description of the Love Fruits Association System.

it will show the features ,services ,Functional Requirements and non-Functional Requirements.

This document is intended for both the

stakeholders and the developers of the system

* 1. **Scope of the project**

The goal of this project is to build a system that facilitates the work of this association and meets the needs that it performs in terms of registering, amending and deleting the data of children and its workers, recording warnings, in addition to creating reports on the progress of work and sending them to the responsible authorities and the director.

This system is for the automation of work in the association, to abandon the traditional paper-based methods of recording data and working on it.

Addressed to the association’s employees in all departments and branches.

* 1. **Glossary**

|  |  |
| --- | --- |
| Term | Definition |
| Database | collection of all the information monitored by this system. |
| Software Requirements Specification | A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document |
| Stakeholder | Any person with an interest in the project who is not a developer |
| Warning | Violation of rules |
| Objects | Material things and staffs |
| Issue | Export, send out |

* 1. **References**

IEEE. IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications. IEEE Computer Society, 1998.

* 1. **Overview of Document**

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product. Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

1. Overall Description
   1. **System Environment**

**Secretary**

Reports

Salaries

**manger**

**employee**

warnings

Data Manager

Objects

This System has three Active Actors and one cooperating system .

The manger access directory to the Salaries and warning , Secretary access directory to the Data Manager and the Employees access to the Objects and reports .

* 1. **Functional Requirements Specification**

**2.2.1 employee use case:**

**Use case: Record objects**

**Diagram :**

**Brief Description:**

The employee accesses the system , and records what objects she/he wants for work .

**Initial Step-By-Step Description**

1. The employee chooses the object button
2. Enter the objects that requires for work in the specific field
3. Save and send .

**Xref :** Section 3.2.2

**2.2.2 Manager :**

**Use case: Issue Warnings**

Diagram **:**

**Brief Description:**

When an employee violates a law of the system, she\he receives a warning.

**Initial Step-By-Step Description:**

1. The manager selects the Warnings button
2. Writes warning information
3. Issuing the appropriate penalty.

**Xref :** Section 3.2.1

**2.2.3 Secretary :**

**Use case: Insert info**

Diagram **:**

**Brief Description:**

When a new employee/children come to the Association the secretary insert him/her information

**Initial Step-By-Step Description:**

1. The secretary selects the data button
2. Then choose the insert button
3. Then insert the full requirement information
4. Save .

**Xref :** Section 3.2.3

* 1. **User Characteristics:**

The manager is able to write warnings and send them and hand out salaries

The employee is able to register the required items and write and submit the required reports

The secretary must be able to manage the data from entering, deleting, modifying and dealing with databases.

* 1. **Non-Functional Requirements :**

1. The system operates from eight o'clock to one o'clock in the afternoon.

2. The system works every day of the week.

3. Print colorful reports.

4. The system is easy to use and responsive.

5. The system has high reliability.

1. **Requirements Specification:**

**3.1 External Interface Requirements:**

The only link to an external system is the link to database to save employee/children information .

**3.2 Functional Requirements:**

**3.2.1 Use case: Issue Warnings:**

|  |  |
| --- | --- |
| Issue warnings | Use case name : |
| Section 2.2.2 issue warnings | Xref |
| The employee's violation of the laws | Trigger |
| The existence of a record of the employee within the system | precondition |
| The employee's violation of a law-  The manager's registration of the violation-  -Issuance of the appropriate penalty for this violation | Basic path |
| ----- | Alternative paths |
| Complete the process of issuing a violation and registering an employee | Post condition |
| ----------- | Exception paths |
| Insert warnings information (employee name , warning type and punishment) | Other |

**3.2.2 Use case: Record objects:**

|  |  |
| --- | --- |
| Record objects | Use case name : |
| Section 2.2.1 Record objects | Xref |
| The need for new objects | Trigger |
| An employee asks for object that does not exist | precondition |
| 1. The employee chooses the object button 2. Enter the objects that requires for work in the specific field 3. Save and send . | Basic path |
| There is a request that could be processed for the same purpose, so he should wait | Alternative paths |
| Buy objects | Post condition |
| The application was rejected by the administration | Exception paths |
| Insert information (object type and quantity ) | Other |

**3.2.3 Use case: insert info**

|  |  |
| --- | --- |
| Insert info | Use case name : |
| Section 2.2.3 Insert info | Xref |
| Either the secretary or a new child / employee registration request | Trigger |
| ------- | precondition |
| 1) Asks the secretary to add data  2) In the case of addition, the information required for registration is taken  3) Test the acceptability of this application  4) Store new data  5) Show a message stating the success of the operation | Basic path |
| If there is a lack of the entered data, the data must be completed or the entire request is deleted | Alternative paths |
| Complete the entry process | Post condition |
| Show a message stating that adding data failed | Exception paths |
| Insert information (full name, address ,phone number ,age and personal photo ) | Other |

**3.3 Detailed Non-Functional Requirements**

**3.3.1 Logical Structure of the Data:**

The data descriptions of each of these data entities is as follows:

**Given**

**Care of**

**Employee**

**Warning**

**Child**

**Child Data Entity :**

|  |  |  |  |
| --- | --- | --- | --- |
| Data Item | Type | Description | Comment |
| Id | Integer | ID number of child | Unique |
| Full Name | Text | Name of child |  |
| Phone Number | Number | Number of child |  |
| Gender | Text | Of child | Female \ male |
| Address | Text | Child home address |  |
| Birthday | Date |  |  |
| Medical Situation | Text | Medical diagnosis of the child | It be healthy or sick |

**Employee Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| Data Item | Type | Description | Comment |
| Id | Number | Of employee | Unique |
| Full Name | Text |  |  |
| Phone Number | Number | To connect with employee |  |
| Gender | Text | Of employee | Female \ male |
| Address | Text | employee home address |  |
| Workday | Date | Date of start work |  |
| Certificate | Text | Scientific level |  |

**Warning Data Entity**

|  |  |  |  |
| --- | --- | --- | --- |
| Data Item | Type | Description | Comment |
| Type | Text | Type of warning |  |
| Punishment | Text | Punishment for the warning |  |
| Employee-Id | Number | Id of employee | Guilty one |
| Date | Date | Date of warning |  |

**3.3.2 Security**

Permissions must be specified for each employee of deleting, adding and modifying data .

Securing the DB with a strong security system .