Software Requirements Specification

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School Management System

Kawthar klayshe

Rose alsulieman

Batool alali

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# 

# 1.0. Introduction

## 1.1. Purpose

The purpose of this document is to present a detailed description of the school Management System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for both the stakeholders and the developers of the system and will be proposed to the Regional Historical Society for its approval..

## 1.2. Scope of Project

This software system will be a fast and accurate system for performing tasks ,Here we find a description of the school management system and upon the request of the customer, it was developed to fully automate the work and give the computer a big role.This system facilitates facilitates the work between the manager and employees and communication with the parents

Communication between the four users is done through this application.

## 1.3. Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Manager | A person who manages the system and gives permission to users. |
| 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. |
| Database | Collection of all the information monitored by this system. |
| Stakeholder | Any person with an interest in the project who is not a developer. |
| User | Manager , Teacher , Students and parents. |
| Historical Society Database | The existing membership database (also HS database). |
| Member | A member of the Historical Society listed in the HS database. |
| Use case | A description of steps or procedures between the user and the software system that leads the user to something useful. |

## 1.5. 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.

**2.0. Overall Description:**

2.1 **System Environment**

Student

Teacher

Parent

Manager

HS DB

School Management System

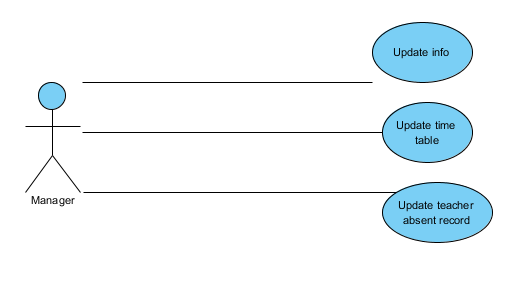
There are four actors in this system: the manager, students, parents, and teachers. All actors, including the manager, who is the system administrator, can access the system by email. There is a link with HS to verify logins

## 2.2 Functional Requirements Specification

This section outlines the use cases for each of the actors: Manager, Teacher, Student and Parent .Each one of them can perform several different roles during the use of the system.

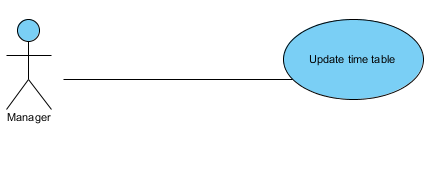
2.2.1 Manager Use Case

The manager has multiple use cases

****

**Use case:** update Time Table

**Diagram:**

****

**Brief Description:**

The Manager updates the time table for a teacher.

**Initial-step-by-step-description:**

1. The manager selects to update time table for a teacher

2. The system presents the time table for each teacher

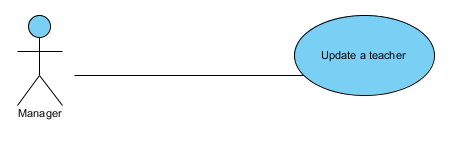
3. The manager fills in the data card with the required data.

4. Finally, the manager press “add” button to save changes

**XREF** 3.2.4Update Time Table for Teacher

**Use case**: Update a teacher

**Diagram:**

****

**Brief Description:**

The manager enters a new teacher or updates an existing one**.**

**Initial-step-by-step-description:**

1. The manager selects to add/update a teacher

2. The system presents a choice of adding or updating

3. The manager chooses to add/update.

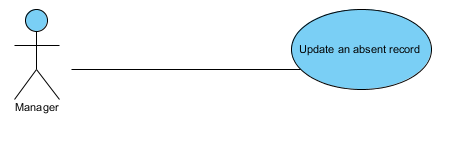
4. If the manager is updating a teacher, the system presents a list of teachers name to choose from and modify his information, else the system presents a blank grid.

5. The manager fills in the information and save form.

**XREF:** 3.2.1 Update Person, 3.2.2 Add Teacher

**Use case:** update an absent record for a teacher

**Diagram:**

****

**Brief Description:**

The manager updates the absent record for a teacher

**Initial-step-by-step-description:**

1. The manager selects to update an absent record

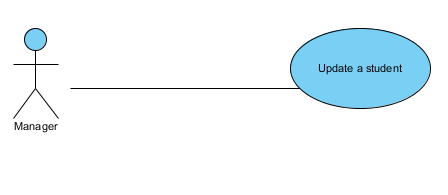
2. The system presents a list of absent records for teachers

3. The manager selects one of the records to update it.

**XREF:** 3.2.5 Update an absent record

**Use case:** update a student

**Diagram:**

****

**Brief description:**

The manager enters a new student or updates an existing one**.**

**Initial-step-by-step-description:**

1. The manager selects to add/update a student

2. The system presents a choice of adding or updating

3. The manager chooses to add/update..

4. If the manager is updating a teacher, the system presents a list of teachers name to choose from and modify his information, else the system presents a blank grid.

5. The manager fills in the information and save form.

**XREF:** 3.2.1 Update Person, 3.2.3 Add student

2.2.2 Teacher Use Cases

The teacher also has multiple use cases.



**Use case:** update marks record

**Diagram:**

****

**Brief Description:**

The teacher enters marks for each student

**Initial-step-by-step-description:**

1. The teacher selects to update marks record

2. The system present a list of mark records

3. The teacher chooses a record to modify it

**XREF:** 3.2.6 Update mark record

**Use case:** send an alarm

**Diagram:**

****

**Brief description:**

The Teacher sends an alarm to parent

**Initial-step-by-step-description:**

1 .The Teacher selects to send an alarm

2. The system calls email system

3. The teacher enters the parent e-mail address in the recipient line

4. The teacher fills out the warning message and sends it

**XREF:** 3.2.7 Send alarm

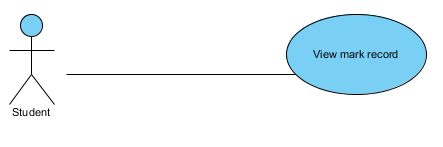
2.2.3 Student Use Case

The student has at least two use cases



**Use case:** View marks

**Diagram:**

****

**Brief description:**

The student views his mark record

**Initial-step-by-step-description:**

1 .The student selects to view his mark record by id

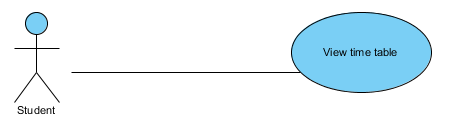
2. The system shows his mark record.

3. The student presses “download” button if he wants to download his mark record

**XREF:** 3.2.9 View Mark Record

**Use case:** View time table

**Diagram:**

****

**Brief description:**

The student views his time table

**Initial-step-by-step-description:**

1 .The student selects to view time table

2. The system shows a list of time table

3. The student enters to his time table

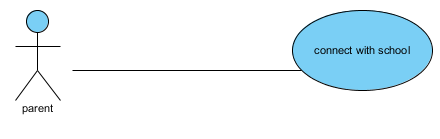
4. The student press “download” button if he wants to download his time table

**XREF:** 3.2.10 View Time Table

2.2.4 Parent Use Case

**Use case:** connect with school

**Diagram:**

****

**Brief description:**

Parents connect with school to follow their children in school

**Initial-step-by-step-description:**

1. The parent chooses to connect with school

2. The system calls the email system.

3. Parent enters the teacher e-mail and the message

4. Finally, he sends the message

**XREF:** 3.2.8 Connect With School

## 2.3 User Characteristics:

The manager is expected to be able to fully manage and control the system, so he can assign permissions to another users.

Teacher, Student and Parent are expected to be able to use e-mail with attachments.

## 2.4 Non-Functional Requirements:

The System must be easy to use, characterized by fast processing and high reability in data preservation, and has a high security system.

It must be equipped with a high performance server for the ability to download files