

# SUPPLEMENTARY SCHEDULE MANAGEMENT SYSTEM SOFTWARE TEST SPECIFICATION (STS) DOCUMENT

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## Table of Contents:

1. Test plan.....	2
1.1 Test ID: .....	2
1.2 Introduction:.....	2
1.3 Test item (modules): .....	3
1.4 Features to be tested:.....	3
1.5 Features not to be tested: .....	3
1.6 Test approach:.....	3
1.8 Test environment: .....	4
• Testing under windows. ....	4
• PC 'HP'. ....	4
1.9 Roles and responsibilities: .....	4
1.10 Schedule:.....	5
2 Test Cases .....	6
2.1 Test Case 1: .....	6
2.2 Test Case 2: .....	7
2.3 Test Case 3: .....	8
2.4 Test Case 4: .....	10
Description about the Defect: .....	12



Date of reporting: .....12

1. Test plan

1.1 Test ID:

Test Name	Test ID
Uploading the excel file	1.1
Adding the starting date	1.2
Adding the common materials	1.3
Formulating the supplementary table.	1.4
Maintainability	1.5
Inter-operability	1.6
Interface	1.7
Performance	1.8

1.2 Introduction:

This proposed system employs a web-based interface that receives tables containing the data of students who have not passed the exams. It then formulates the optimal schedule while keeping in mind that there are some common subjects with other departments (for example, Engineering Management, Vectors, Differential Equations, etc.) that should have a fixed date for all departments.

The software test team has been tasked with testing the new system.

### 1.3 Test item (modules):

<b>Test Item Name</b>	<b>Test Item Version No</b>
Uploading the excel file	Version 1
Adding the starting date	Version 1
Adding the common materials	Version 1
Formulating the supplementary table.	Version 1
Maintainability	Version 1
Inter-operability	Version 1
Interface(use Arabic language)	Version 1
Performance	Version 1

### 1.4 Features to be tested:

1. Uploading the excel file.
2. Adding the starting date.
3. Adding the common materials
4. Formulating the supplementary table.

### 1.5 Features not to be tested:

1. Maintainability
2. Inter-operability
3. Interface.
4. Performance.

Those are not to be tested because the system is prototype and it's not complete.

### 1.6 Test approach:

In this project we used black box testing approach to test modules, environment of the system and describe outputs generated in response to selected inputs and execution conditions.

### 1.7 Entry/Exit criteria:

Here we have two concepts

- input (valid and invalid values)
- output(Expected System Response and Actual Response )

Entered input:

We have to fill three fields in order for the table to be formulated:

1. Starting date.
2. If there are common materials between departments with specific dates they should be added.
3. Uploading the excel file in the following format:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	index	name	VECTOR A	DIFFERENT	INTRODUC	FUNDAME	INTRODUCT	ARABIC	LAI	INTRODUC	SOFTWARE	MATERIAL	THYRMO	SPECIAL AI	ENGLISH L	ISLAMIC S	COMPUTE	DIGITAL S	SEMICONDUCT
2			3	3	2	3	2	2	3	2	2	3	3	2	2	2	3	3	
3	184002	AHMED HATIM MOHAMMED ABDALLAH																	1
4	184003	AHMED SIDDIQ KHIDIR ALI					1												
5	184004	ARWA MOHAMMED HAMMAD BABIKER											1				1	1	
6	184006	IBRAHIM ABDELQAL IBRAHIM MOHAMMED				1													1
7	184011	AHMED HAYDER OMER AHME										1						1	1
8	184101	MALAZ ABDELRAHMAN MOHAMMED DHIRAR					1					1							1
9	184103	MONA ABDELFAHAT ALI YOUSIF																	1
10	185051	ABEER SAIF ALDEEN IBRAHIM												1					1
11	184050	ABDALLAH MOBARAK MOHAMMED HASSAN										1	1						
12	184059	OMER ABDALLAH OMER AHMED					1											1	
13	184060	OMER MOHAMMED ABDELRAHEEM MAHMOUD										1							
14	184061	AMRO MOHAMMED ALHADI ALTAYIB OSMAN				1													
15	184064	LAYLA ALAMAIN HASSAN ALAMAIN												1				1	1
16	184065	MOAYD OSAMA HUSSAIN ABDEL KHAFOOR												1				1	
17	184066	AMJAD ESAMALDEEN AHMED ALI																	1
18	184067	AHMED KHALID HASIM MOHAMMED												1		1			1
19	184068	AHMED ALSADIG ALSIDDIG	1			1						1							1
20	184069	MUSHTAHA ALI MOHAMMED AHMED MAGIT												1				1	1
21	184070	MAZIN ALAMAIN HASSAN FARAH			1													1	1
22	184081	MOHAMMED ALHIBIR HASSAN MOHAMMED				1													
23	184082	MOHAMMED JAMAL ALDEEN MOHAMMED SALIH												1					1
24	184083	MOHAMMED SAAD FADUL ALMOULA SAAD			1			1											1
25	184084	MUSTAFA ABOALGASIM MOHAMMED ABO ALNOUR												1				1	1
26	184085	MUSTAFA OSMAN MOHAMMED NASIR												1		1			
27	184086	MUSTAFA MUBARAK ALSAEED MUSTAFA	1					1					1						

#### 1.8 Test environment:

- Testing under windows.
- PC "HP".

#### 1.9 Roles and responsibilities:

Name	Role	Responsibilities	Contact Details
Mohammed Ahmed	Test Lead	Ensures the overall success of the test cycles	e-mail : Ma2286572@gmail.com <a href="tel:0991631181">Tel:0991631181</a>
Monzer Omer	Tester	Responsible for performing the actual system testing	e-mail: Monzeromer048@gmail.com <a href="tel:0961077805">Tel:0961077805</a>
Mugtaba Mirghani	Tester	Responsible for performing the actual system testing	e-mail: Mmmhasy@gmail.com <a href="tel:0127353687">Tel:0127353687</a>

1.10 Schedule:  
Software testing duration 28/3/2023 up to 31/3/2023

Task	Time
System familiarization	One day
Apply test case	Two days
Write reports	One day

## 2 Test Cases

### 2.1 Test Case 1:

<b>Test Case#:</b> 1	<b>Test Case Name:</b> Uploading the excel file
<b>System:</b> Supplementary management system	<b>Subsystem:</b> Excel file array converter.
<b>Designed by:</b> Mohammed Ahmed	<b>Design Date:</b> 28/03/2023
<b>Executed by:</b> Mugtaba Mirghani	<b>Executed date:</b> 29/03/2023
<b>Short Description:</b> The system shall receive an excel file from the user to be transformed and processed.	

#### Pre-conditions

- Availability of data in a particular format.
- Training was provided to the user.

Step	Action	Expected System Response	Actual result	Pass/Fail	Comment
1	Upload the excel file in the correct format.	The excel file is transformed to an array inside the system.	The excel file is transformed to an array inside the system.	Pass	
2	Upload a file which is not an excel file.	Error handling page will appear to the user showing that the uploaded file is not an excel file.	Error handling page will appear to the user showing that the uploaded file is not an excel file.	Pass	The uploaded file should be an .xlsx file.

3	Submitting without uploading any file.	Error handling page will appear to the user.	Error handling page will appear to the user.	Pass	
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**Post-condition:**

The system shall extract the necessary data from the uploaded file.

**The actual result:**

The system extract the necessary data from the uploaded file.

## 2.2 Test Case 2:

<b>Test Case#:</b> 2	<b>Test Case Name:</b> Starting date entry
<b>System:</b> Supplementary management system	<b>Subsystem:</b> Schedule handling module
<b>Designed by:</b> Mohammed Ahmed	<b>Design Date:</b> 28/03/2023
<b>Executed by:</b> Mugtaba Mirghani	<b>Executed date:</b> 29/03/2023
<b>Short Description:</b> The system shall receive the starting date of the supplementary exams and depending on this starting date it will decide the optimal scheduling.	

**Pre-conditions**

- Starting date should not be a holiday(Friday)
- Training was provided to the user.

Step	Action	Expected System Response	Actual result	Pass/Fail	Comment
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1	Starting date is entered correctly.	The timetable is formulated correctly.	The schedule is formulated correctly.	Pass	
2	Starting date is entered as 'Friday'.	An error handling page appears to the user.	An error handling page appears to the user.	Pass	

**Post-condition:**

The system shall Extract this starting date and use it in formulating the timetable.

**The actual result:**

The system Extracted this starting date and used it in formulating the timetable.

### 2.3 Test Case 3:

<b>Test Case#:</b> 3	<b>Test Case Name:</b> Common materials entry
<b>System:</b> Supplementary management system.	<b>Subsystem:</b> Schedule processing module.
<b>Designed by:</b> Mohammed Ahmed	<b>Design Date:</b> 28/03/2023
<b>Executed by:</b> Mugtaba Mirghani	<b>Executed date:</b> 29/03/2023
<b>Short Description:</b> The system shall receive the name and date of any common material.	

**Pre-conditions**

- The common materials are entered in the correct format.
- Training was provided to the user.

Step	Action	Expected System Response	Actual result	Pass /Fail	Comment
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1	The common material is entered correctly.	The time table is formulated correctly.	The schedule is formulated correctly.	Pass	
2	Two or more common materials are entered with the same name but different dates.	An error handling page appears to the user.	An error handling page appears to the user.	Pass	
3	Two or more common materials are entered with the same date but different names.	An error handling page appears to the user.	An error handling page appears to the user.	Pass	
4	The common material name is not in the excel file.	An error handling page appears to the user.	The schedule is formulated incorrectly.	Fail	
5	The common material date is before the starting date.	An error handling page appears to the user.	The schedule is formulated incorrectly.	Fail	
6	The common material is entered without name and/or date.	An error handling page appears to the user.	An error handling page appears to the user.	Pass	

**Post-condition:**

The system shall identify the common materials with their correct dates and use these dates in formulating the timetable.

**The actual result:**

The system identified the common materials with their correct dates and used these dates in formulating the timetable.

## 2.4 Test Case 4:

<b>Test Case#:</b> 4	<b>Test Case Name:</b> Supplementary table formulation
<b>System:</b> Supplementary management system.	<b>Subsystem:</b> Supplementary table module.
<b>Designed by:</b> Mohammed Ahmed	<b>Design Date:</b> 28/03/2023
<b>Executed by:</b> Mugtaba Mirghani	<b>Executed date:</b> 29/03/2023
<b>Short Description:</b> The system shall-when all required data are available- a well-structured supplementary table.	

### Pre-conditions

- Availability of data.
- Training was provided to the user.

Step	Action	Expected System Response	Actual result	Pass /Fail	Comment
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1	All required data is prepared.	The table is created and ready.	The table is created and ready.	Pass	
2	No available data.	An error handling page appears to the user.	An error handling page appears to the user.	Pass	

**Post-condition:**

The system shall identify the common materials with their correct dates and use these dates in formulating the timetable.

**The actual result:**

The system identified the common materials with their correct dates and used these dates in formulating the timetable.

### 3.1 bugs:

Project Name: Supplementary management system

Version of the project: version1

Name of the module:

Name of the Sub module (if required):

Name of the developer:

### Defect Details:

Defect ID	Name of test case	Type of Defect
1	Common materials entry	Functional
2	Common materials entry	Functional

Description about the defects: No error handling functionality is available for these types of wrong common materials entries.

### Severity:

- Low.

### Priority:

- Low.

### To whom you are reporting:

Coding team leader.

Date of reporting: 3/4/2023

### Assessment report:

The system attained one requirement from three and it has some bugs which mentioned above, these bugs appears through testing

with 15.38% fail out of the whole testing process.