

This is Best attempt
However there are minor mistakes
and some suggestion i have highlighted
and commented.

Project: Test Document

	Q1	Q2
TD.G	5	0
TM	2	2
TID	1	1
TSL	2	2
T-D	2	2
EOP	2	2
ADP	2	0
T-Tem	2	2
	18	11
$P=2$		

$$29+2=31$$

38



Submitted to: Ma'am Shumaila

Submitted by:

Name	Sap ID	Email
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Faculty of Computing
Riphah International University, Islamabad
Spring 2023

Artifact-1

Software Quality Plan/

Software Test Plain

for each Test scenario
 define Test data above it.
 don't do this in separate
 section

Requirements:

FR-1: Registration

FR-1.1: Users (Hod, project organizer, supervisors, and students) shall be able to register themselves on the system.

FR-1.2: The user shall be able to enter her name consist of alphabets only.

FR-1.2.1: the name should consist of a minimum of 3 characters and maximum 20 characters.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Name = Alphabets (A-Z) {A, B, C, D,, Z}	AIMAN ABID	Valid ✓
Name = Alphabets (a-z) {a, b, c, d,, z}	Aiman Abid	Valid ✓
3 >= Name length <= 20	Aiman Abid	Valid ✓
Name Length < 3	Al	Invalid ✓
Name Length > 20	Abcdefghijklmnopqrst	Invalid ✓
Name = Special characters {#, *, ?, %, &,}	Aiman#&+_-	Invalid ✓
Name = Numbers {1,2,3,4,5,	Aiman1246	Invalid ✓

BVA:

Boundary	Input Value	Valid/Invalid
Name Length = 2	Hi	Invalid ✓
Name Length = 3	Ali	Valid ✓
Name Length = 4	Amna	Valid ✓
Name Length = 19	Hira Shazad Ali Yousaf	Valid ✓
Name Length = 20	Hira Shahzad Ali Yousaf	Valid ✓
Name Length = 21	Hira Shahzad Ali Yousaaf	Invalid ✓

FR-1.3 The user shall be able to enter his/her email.

FR-1.3.1 The system shall verify the format of email such that @riphah.edu.pk

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Valid email format	24914@riphah.edu.pk	Valid ✓
Invalid Email Format	24914@riphah.edu	Invalid ✓
Invalid Email Format	24914@riphah.pk	Invalid ✓
Invalid Email Format	24914@edu.pk	Invalid ✓
Invalid Email Format	24914riphah.edu.pk	Invalid ✓

{@riphah.edu.pk} valid

{@gmail.com, @yahoo.com, @hotmail.com ...} invalid

* all numbers are combination of 0...9
so you can define class as {0, ..., 9}

FR-1.4 The user shall be able to enter his/her SAP ID

FR-1.4.1 SAP ID consists of numbers only. No spaces, alphabets and special characters should be allowed.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Sap Id = Numbers < 0	-12345	Invalid ✓
Sap Id = Number (0, ∞) {0, 1, 2, 3, 4, ...}	24914	Valid ✓
Sap Id = Alphabets (A-Z) {A, B, C, D, ...}	Aiman	Invalid ✓
Sap Id = Alphabets (a-z) {a, b, c, d, ...}	aiman	Invalid ✓
Sap Id = Special Characters {#, @, \$, ...}	@#\$%^	Invalid ✓
Sap Id = Space {} ↑	" "	Invalid ✓

Space is also a special character

ID cannot be 0

BVA:

Boundary	Input Value	Valid/Invalid
Sap Id = -1	-1	Invalid
Sap Id = 0	0	In Valid
Sap Id = 1	1	Valid

FR-1.5 The user shall be able to enter her password.

FR-1.5.1 Password must consist of alphabets; numbers and it must be 8-15 Characters long.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
8 >= Password Length <= 15	Aiman123	Valid ✓
Password Length < 8	Abc123	Invalid ✓
Password Length > 15 {0, ..., 9}	Abc1234567890123	Invalid ✓
Password = Numbers {1, 2, 3, 4, ...}	12345678	Invalid ✓
Password = Alphabets (A-Z) {A, B, C, ..., } + Numbers {1, 2, 3, ...}	AMNA1234	Valid ✓
Password = Alphabets (a-z) {a, b, c, ...} + Numbers {1, 2, 3, 4, ...}	amnabibi1234	Valid ✓
Password = Alphabets (A-Z) {A, B, C, D, ...} no need	AmnaBibi	Invalid ✓
Password = Special Characters {#, @, \$, ...}	Amna&%ç	Invalid ✓

crossed out
not needed
not needed
not needed

alphabet also includ small letters

{a...z} {A...Z}

BVA:

for length checking
go for valid data

AmNa12 (its length is less than 7 but its atleast valid. Be precise as per ref. here.)

Boundary	Input Value	Valid/Invalid	Per ref. here.
Password Length = 7	Hif%89	Invalid	
Password Length = 8	Amna1234	Valid	
Password Length = 9	Amna89876	Valid	
Password Length = 14	Shahzad2345689	Valid	
Password Length = 15	Shahzad23456890	Valid	
Password Length = 16	Shahzad234568967	Invalid	

Test Cases:

Test Case #: TC-01 System: Molliem website Designed by: Aiman Abid Executed by: Short Description: Test the registration functionality	Test Case Name: Check valid registration Subsystem: Registration Design Date: 28/5/2022 Execution Date: ✓
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TC case ID	Test case description	Test steps	Test data	Expected Result	Actual Result	Pass/Fail
TC-01	Check Response with valid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Aiman Abid Email: 24914@riphah.edu.pk SAP ID: 24914 Password: Aiman123 ✓ ✓ ✓ ✓ ✓ verified above	Registration should be successful and system displays a successful message to the user "Registered successfully".		
TC-02	Check Response with valid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: AIMANABID Email: 24914@riphah.edu.pk SAP ID: 24914 Password: Aiman123 ✓ ✓ ✓ ✓ ✓ verified above	Registration should be successful and system displays a successful message to the user "Registered successfully".	too defined AmanAbid FABCEZ or invalid	
TC-03	Check Response with valid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: aiman abid Email: 24914@riphah.edu.pk SAP ID: 24914 Password: Aiman123	Registration should be successful and system displays a successful message to the user "Registered successfully".		

Sorry I mixed it up with previous

TC- 04	Check Response with invalid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: AI Email: 24914@riphah.edu SAP ID: -12345 Password: Abc123	System displays an error message to the user "incorrect name, email, password and SAP ID".	
TC- 05	Check Response with invalid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: AI Email: 24914@riphah.pk SAP ID: @#%\$^ Password: Abc1234567890123	System displays an error message to the user "incorrect name, email, password and SAP ID".	
TC- 06	Check Response with invalid name, email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Abcdefghijklmnopqrst Email: 24914@edu.pk SAP ID: Aiman Password: 12345678	System displays an error message to the user "incorrect name, email, password and SAP ID".	
TC- 07	Check Response with valid name and invalid email, SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Aiman Abid Email: 24914riphah.edu.pk SAP ID: aiman Password: Abcdefgh	System displays an error message to the user "incorrect email, password and SAP ID".	
TC- 08	Check Response with valid name, email and invalid SAP ID and password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Aiman Abid Email: 24914@riphah.edu.pk SAP ID: aiman Password: 12345678	System displays an error message to the user "incorrect password and SAP ID".	
TC- 09	Check Response with valid name, SAP ID, password and invalid email.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: aiman abid Email: 24914@riphah.edu SAP ID: 24914 Password: Aiman123	System displays an error message to the user "incorrect email".	
TC- 10	Check Response with valid name, email, password and invalid SAP ID.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Aiman Abid Email: 24914@riphah.edu.pk SAP ID: -12345 Password: Aiman123	System displays an error message to the user "incorrect SAP ID".	

TC- 11	Check Response with valid name, SAP ID, email and invalid password.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Aiman Abid Email: 24914@riphah.edu.pk SAP ID: 24914 Password: Abedesgh	System displays an error message to the user "incorrect password".		
TC- 12	Check Response with valid SAP ID, email password and invalid name.	1. Enter name. 2. Enter email. 3. Enter SAP ID. 4. Enter password. 5. Click Submit.	Name: Al Email: 24914@riphah.edu.pk SAP ID: aiman Password: Aiman123	System displays an error message to the user "incorrect name".		

FR-8: Create submission portal

FR-8.1: The project organizer shall be able to set the submission date and time.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Correct format of data i.e., DD/MM/YYYY and time i.e., 24-hour format	Date = 14/06/2023 Time = 21:00:00	✓ Valid
Future date and time	Date = 30/05/2023 Time = 13:00:00	✓ Valid
Past date and time	Date = 15/02/2018 Time = 12:00:00	✓ Invalid
Improper Date and time format	Date = 2023/01/12 Time = 58:04:22	✓ Invalid
Exceeding values of date i.e., DD/MM/YYYY and time i.e., 24-hour format	Date = 32/01/2023 Time = 25:00:00	✓ Invalid

BVA:

BVA (Not applicable in -This rev)

Boundary	Input Value	Valid/Invalid
Time = -01: -01: -01	-01: -01: -01	✓ Invalid
Time = 01:00:00	01:00:00	✓ Valid
Time = 02:01:01	02:01:01	✓ Valid
Time = 23:59:59	23:59:59	✓ Valid
Time = 24:60:60	24:60:60	✓ Valid
Time = 25:61:61	25:61:61	✓ Invalid
Date = 00/00/2022	00/00/2022	✓ Invalid
Date = 01/01/2023	01/01/2023	✓ Valid
Date = 02/02/2024	02/02/2024	✓ Valid
Date = 30/11/2023	30/11/2023	✓ Valid
Date = 31/12/2023	31/12/2023	✓ Valid
Date = 32/13/2023	32/13/2023	✓ Invalid

FR-8.2: The project organizer shall be able to add assignment title.

FR-8.2.1: the assignment title should consist of alphabets and numbers only and 4- 25 characters long.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Title = alphabets {a, b, c...z} + numbers {1, 2, 3...}	Project2	Valid ✓
4 >= Title <= 25	Assignment4	Valid ✓
Title < 4	ab1	Invalid ✓
Title > 25	Assignment Use-case Testing Technique	Invalid ✓
Special characters P {#, *, ?, %, &,}	Project_02	Invalid ✓

BVA:

Boundary	Input Value	Valid/Invalid
Title = 3	abc	Invalid
Title = 4	Task	Valid
Title = 5	Task1	Valid ✓
Title = 24	AssignmentTitle012345678	Valid
Title = 25	AssignmentTitle0123456789	Valid
Title = 26	AssignmentTitle01234567899	Invalid

FR-8.3: The project organizer shall be able to add assignment description.

FR-8.4: The description should consist of no more than 200 words.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
Description = 0	Empty string i.e., “ ”	Invalid ✓
0 > Description <= 200	SQE Assignment	Valid ✓
Description > 200	Description with more than 200 words “A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational	Invalid ✓

	efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large hospital."	✓
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BVA:

Boundary	Input Value	Valid/Invalid
Description = 0	Empty string i.e., “ ”	Invalid ✓
Description = 1	Task	Valid ✓
Description = 2	Assignment Task	Valid ✓
Description = 199	Description with more than 200 words “A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to	Valid ✓

	<p>scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large.”</p>	
Description = 201	<p>Description with more than 200 words.</p> <p>“A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care</p>	<p>Invalid</p> <p style="text-align: center;">✓</p>

	enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large A Hospital Management System aims to streamline processes improve patient care enhance operational efficiency reduce paperwork and provide accurate and timely information for better decision making it can be customized and scaled according to the specific needs and size of the healthcare facility whether it's a small clinic or large hospital."	
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FR-8.4: The project organizer shall allow the submission of file.

FR-8.4.1: The system shall be able to allow submission of maximum file size 25MB.

FR-8.4.2: The permitted file format shall be word file, power point file and PDF file only.

FR-8.5: the project organizer shall be able to save the submission form.

FR-8.6: system create a submission portal and display a success full message to the project organizer.

ECP:

Equivalence Classes	Input Value	Valid/Invalid
File size = 0 MB	Empty file i.e., 0MB	Invalid ✓
0 > File size <= 25 MB	File size 15 MB	Valid ✓
File size >25 MB	File size 30 MB	Invalid ✓
File format = word i.e. .doc, .docx extension	document.docx	Valid ✓
File format = power point i.e. .ppt, .pptx extension	presentation.ppt	Valid ✓
File format = PDF i.e. .pdf extension	assignment.pdf	Valid ✓
File format other than word, PPT, PDF {.html, xls, mp3 war, ...}	Index.html	Invalid ✓

Think m it (Item is kB also)

could
be
done

BVA:

Boundary	Input Value	Valid/Invalid
File size = 0 MB	document.docx, an empty file i.e., 0 MB size	Invalid ✓
File size = 1 MB	document.docx having file size 1 MB	Valid ✓



File size = 2 MB	document.docx having file size 2 MB	Valid ✓
File size = 24 MB	document.docx having file size 24 MB	Valid ✓
File size = 25 MB	document.docx having file size 25 MB	Valid ✓
File size = 26 MB	document.docx having file size 26 MB	Invalid ✓

Test Cases:

Test Case #: TC-08 System: Molliem website Designed by: Nida Javed Executed by: Short Description: Test the submission portal functionality	Test Case Name: Create submission portal Subsystem: Submission portal Design Date: 28/5/2022 Execution Date:
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Test case ID	Test case description	Test steps	Test data	Expected Result	Actual Result	Pass/ Fail
TC-01	Check response when project organizer successfully creates submission portal	1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form.	Date: 14/06/2023 Time: 21:00:00 Title: Project2 Description: Task File size: 15 MB File format: assignment.pdf	System creates a submission portal and displays a successful message to the project organizer.	✓	
TC-02	Check response when creation of submission portal is unsuccessful	1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form.	Date: 2023/06/14 Time: 21:00:00 Title: Project2 Description: Task File size: 15 MB File format: assignment.pdf	System displays an error message "Incorrect date format"	✓	
TC-03	Check response when creation of submission portal is unsuccessful	1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form.	Date: 14/06/2023 Time: 58:04:22 Title: Project2 Description: Task File size: 15 MB File format: assignment.pdf	System displays an error message "Incorrect time format"	✓	

TC-04	Check response when creation of submission portal is unsuccessful	<ol style="list-style-type: none"> 1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form. 	Date: 14/06/2023 Time: 21:00:00 Title: Assignment Use-case Testing Technique Description: Task File size: 15 MB File format: assignment.pdf	System displays an error message "Error! title should contain 4-25 characters"	✓	
TC-05	Check response when creation of submission portal is unsuccessful	<ol style="list-style-type: none"> 1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form. 	Date: 14/06/2023 Time: 21:00:00 Title: Assignment Use-case Testing Technique Description: " " File size: 15 MB File format: assignment.pdf	System displays an error message "Error! description can't be empty"	✓	
TC-06	Check response when creation of submission portal is unsuccessful	<ol style="list-style-type: none"> 1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form. 	Date: 14/06/2023 Time: 21:00:00 Title: Project2 Description: Task File size: 30 MB File format: assignment.pdf	System displays an error message "Error! Maximum file size can be 25 MB"	✓	
TC-07	Check response when creation of submission portal is unsuccessful	<ol style="list-style-type: none"> 1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form. 	Date: 14/06/2023 Time: 21:00:00 Title: Project2 Description: Task File size: 15 MB File format: index.html	System displays an error message "Error! File format can only be word, ppt or pdf"	✓	
TC-08	Check response when creation of submission portal is unsuccessful	<ol style="list-style-type: none"> 1. Set date and time. 2. Add assignment title. 3. Add assignment description. 4. Allow submission of file. 5. Save the submission form. 	Date: 2023/06/14 Time: 56:00:00 Title: abc Description: " " File size: 0 MB File format: index.html	System displays an error message "Error! incorrect information or file"	✓	

How did you get valid and invalid here?
 Test data in each test case
 Use ECP to generate Test data ref to lecture

Test case of UC - 03:

Table 1.1: Register Project Test Case Details:

TC case ID	Scenario/ Condition	Members	Name	Sap id	Supervisor	Project Title	Description	Database	Expected Result
Register 1	Scenario 1 – successful project registration	2 members	Fizza Riaz, Aliya Ali	25266, 23456	1 supervisor (Mam Sana) is selected	Hospital Management System	project description= “We will work on Hospital Management System.”	Information saved in the database	Project registered successfully; Confirmation Email is sent to Supervisor and team ✓
Register 2	Scenario 2 – error: More than 2 team members	More than 2 team members	Aiman Abid, Nida Javed, Hina Ali	25266, 23456, 67543	1 supervisor (Mam Hina) is selected	Restaurant Management System	project description= “We will work on Restaurant Management System”	N/A (No database operation)	Error message displayed: back to register project screen ✓
Register 3	Scenario 3 – error: Team members having invalid names	2 members	F134, Ay6#	25266, 23456	1 supervisor (Mam Hina) is selected	Cafeteria Management System	project description= “We will work on Cafeteria Management System.”	N/A (No database operation)	Error message displayed: back to register project screen ✓
Register 4	Scenario 4 – error: Team members having invalid sap ids	2 members	Fizza Riaz, Aliya Ali	2a2v6, 2ry6	1 supervisor (Mam Hina) is selected	Bus Reservation Management System	project description= “We will work on Bus Reservation Management System.”	N/A (No database operation)	Error message displayed: back to register project screen ✓

Register 5	Scenario 5 – error: Multiple supervisors	2 members	Fizza Riaz, Aliya Ali	25266, 24567	2 supervisors (Mam Hina, Mam Sana) are selected	Flight Reservation Management System ✓ Project description= “We will work on Flight Reservation Management System.” ✓ N/A (No database operation)
Register 6	Scenario 6 – error: Invalid project description	2 members	Fizza Riaz, Aliya Ali	25266, 24567	1 supervisor (Mam Hina) is selected	Food Management System ✓ Project description= &ygza32yhv gshg ✓ N/A (No database operation)
Register 7	Scenario 7 – error Handling: database failure	2 members	Fizza Riaz, Aliya Ali	25266, 24567	1 supervisor (Mam Hina) is selected	Event Management System ✓ Project description= “Event Management System.” ✓ Database failure during saving information