



SECP3204: Software Engineering WBL

Software Testing Documentation (STD)

KTDI EVENT MANAGEMENT SYSTEM

Version 3.0

Date: 13 June 2023

School of Computing, Faculty of Engineering

Prepared by: Group Curiosity

Revision Page

a. Overview

In this documentation, we have completed the System Test Description (STD) section on our developed system, which is the KTDI Event Management System. This section contains 26 test cases and the test approach analysis that are needed to evaluate or test our system. For each test case, we have included the alternative and exception scenarios and also outlined the detailed steps and expected results. Meanwhile, for the part of test approach analysis, we will explain how to conduct each test case through equivalence partitioning (EP) and boundary value analysis (BVA).

b. Target Audience

The target audiences are:

- i) JKM KTDI
- ii) UTM Students
- iii) KTDI Staff

c. Project Team Members

Team Member	Role	Task	Status
Low Ying Xi	Project Manager	TC001, TC002, Test Approach Analysis	Completed
Camily Tang Jia Lei	Developer	TC010 - TC013	Completed
Koh Li Hui	User Experience Designer	TC003, Revision Page, Traceability Matrix	Completed
Ng Shu Yu	Documentation Specialist	TC004 - TC009	Completed

d. Version Control History

Version	Primary Author(s)	Description of Version	Date Completed
Version 1.0	Camily Tang Jia Lei Ng Shu Yu Koh Li Hui Low Ying Xi	Completed the proposal and produced Use Case Diagram (PR1)	14/5/2023
Version 2.0		Completed the SRS - System Requirement Specification (PR2)	10/6/2023
Version 3.0		Completed the SDD - System Design Description (PR3)	20/6/2023
Version 4.0		Completed the STD - System Test Description (PR4)	30/6/2023

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8. Test Cases

8.1 TC001: Test Authentication Subsystem: Register account (UC001)

This test contains the following test cases:

- (a) TC001_01: Test Register Account (SD001)
- (b) TC001_02: Test Already Have Valid Account (SD001)
- (c) TC001_03: Test Required Field(s) is/are Empty (SD001)

8.1.1 TC001_01: Test Register Account (SD001)

Test Case ID		TC001_01					
Test Case Description		Test a successful case of account registration in KTDI Event Management System					
Created By		Ying Xi	Reviewed By	Shu Yu		Version	1
QA Tester's Log		None					
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)		
S#	Prerequisites:			S#	Test Data		
1	Access to browser			1	email = camily2003@graduate.utm.my		
				2	name = Camily Tang Jia Lei		
				3.	matric no = A22EC0039		
				4.	role = student		
				5.	password = cam2003ily		
				6.	reenter_password = cam2003ily		
Test Scenario		Verify that after entering valid information, the account for the user can be created according to their role.					

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to KTDI Event Management page	The site should be opened and display the intro page		
2.	Click “Register”	The page should be redirected to the interface for account registration		
3.	Enter all the required fields correctly (Utm email, name, matric no./staff ID, password) and select role	The form should be allowed to be submitted.		
4.	Click “Sign Up.”	The form is submitted and account is registered successfully		

8.1.2 TC001_02: Test Already Have Valid Account (SD001)

Test Case ID		TC001_02			
Test Case Description		Test an error case of account registration when the email address has been registered in KTDI Event Management System			
Created By		Ying Xi	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	Access to browser			1	email = camily2003@graduate.utm.my
Test Scenario		Verify that after entering the registered email address, system displays an error message			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to KTDI Event Management page	The site should be opened and display the intro page		
2.	Click "Register"	The page should be redirected to the interface for account registration		
3.	Enter the registered email address	The error message is displayed. The form cannot be submitted		

8.1.3 TC001_03: Test Required Field(s) is/are Empty (SD001)

Test Case ID		TC001_03			
Test Case Description		Test an exception case of account registration in KTDI Event Management System			
Created By		Ying Xi	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	Access to browser			1	email = camily2003@graduate.utm.my
				2.	ID_number = A22EC0039
				3.	role = student
				4.	password = cam2003ily
				5.	reenter_password = cam2003ily
Test Scenario		Verify that if there is missing input for one or more required fields, the account cannot be created.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Navigate to KTDI Event Management page	The site should be open and display the intro page		
2.	Click "Register"	The page should be redirected to the interface for account registration		

3.	Enter some of the required fields correctly, while others are left blank	The error message is displayed. The form cannot be submitted		
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8.2 TC002: Test Authentication Subsystem: Login (UC002)

This test contains the following test cases:

- (a) TC002_01: Test Successful login (SD002)
- (b) TC002_02: Test Invalid login (SD002)
- (c) TC002_03: Test Reset password (SD002)

8.2.1 TC002_01: Test Successful login (SD002)

Test Case ID		TC002_01			
Test Case Description		Test a successful account login to KTDI Event Management System			
Created By		Ying Xi	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	Access to browser			1	email = camily2003@graduate.utm.my
2	Have a valid account			2	role = student
				3	password = cam2003ily
Test Scenario		Verify that after entering the correct email address, password and role, user successfully logs into the system and will be redirected to the main dashboard according to the role			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Navigate to KTDI Event	The site should be opened		

	Management page	and display the intro page		
2.	Click “Sign In.”	The page should be redirected to the interface for login		
3.	Enter the registered email address and password, then select the role correctly to sign in	The user successfully logs into the system and the system displays the main dashboard		

8.2.2 TC002_02: Test Invalid login (SD002)

Test Case ID		TC002_02			
Test Case Description		Test an invalid account login to KTDI Event Management System			
Created By		Ying Xi	Reviewed By	Shu Yu	Version 1
QA Tester’s Log		None			
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	Access to browser			1	email = camily2003@graduate.utm.my
				2	role = student
				3	password = cam2003
Test Scenario		Verify that after entering incorrect or invalid information, the user cannot log into the system.			

Step #	Step Details	Expected result	Actual	Pass/Fail/
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			Results	Not execute/ Suspended
1.	Navigate to KTDI Event Management page	The site should be opened and display the intro page		
2.	Click “Sign In.”	The page should be redirected to the interface for login		
3.	Enter the email address and password, then select the role incorrectly to sign in	The user fails to log into the system. The system displays an error message to inform the user that an invalid account email, password, or role is/are entered.		

8.2.3 TC002_03: Test Reset password (SD002)

Test Case ID		TC002_03			
Test Case Description		Test reset password function			
Created By		Ying Xi	Reviewed By	Shu Yu	Version 1
QA Tester’s Log		None			
Tester name		Camily	Date tested	26 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	Access to browser			1	email = camily2003@graduate.utm.my
				2	role = student
				3	password = cam2003
Test Scenario		Verify that user is able to reset their password for their account			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to KTDI Event Management page	The site should be opened and display the intro page		
2	Click “Sign In.”	The page should be redirected to the interface for login		
3	Click “Reset Here”	The page should be redirected to the interface for reset form		
4	Enter the email address	The system verifies the format of the email and then sends a link to the email. The user receives a link in the mailbox of the email entered.		
5	Click “Verify” in the mailbox	The user is able to enter the password on the page		
6	Click “Reset” after entering new password	User successfully reset the password for their account		

8.3 TC003: Test Create Event Subsystem : Event Calendar (UC003)

This test contains the following test cases:

- (a) TC003_01: Test Event Calendar (SD003)
- (b) TC003_02: Test Event Not Found (SD003)
- (c) TC003_03: Test Event Details Not Available (SD003)

8.3.1 TC003_01: Test Event Calendar (SD003)

Test Case ID		TC003_01				
Test Case Description		Test a successful case of event calendar in KTDI Event Management System				
Created By		Li Hui	Reviewed By	Shu Yu	Version	1
QA Tester’s Log		None				
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	The student, a JKM KTDI or KTDI staff member, is logged into the event management system.			1	email = camily2003@graduate.utm.my	
				2	password = cam2003ily	
				3	role = student	
				4	year = 2023	
				5	month = June	
				6	day = 20,21	

		7	event name = Rasukan Resak
Test Scenario	Verify the vision of event “Rasukan Resak” information on Event Calendar.		

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Press to the “Event Calendar” section of the system.	The system should display the events of the semester.		
2.	Click the “Rasukan Resak” on the event calendar.	The system should display “Rasukan Resak” posters, event details, and event objectives and an edit button typically for JKM KTDI.		
3.	Click the “Edit” button.	The JKM KTDI should be able to create or edit event details on the respective date of the event calendar.		
4.	Save the changes (e.g. date)	The changes on event details should be updated successfully.		

8.3.2 TC003_02: Test Event Not Found (SD003)

Test Case ID	TC003_02				
Test Case Description	Test the case of event not found on event calendar in KTDI Event Management System				
Created By	Li Hui	Reviewed By	Shu Yu	Version	1

QA Tester's Log		None				
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	The student, a JKM KTDI or KTDI staff member, is logged into the event management system.			1	email = camily2003@graduate.utm.my	
				2	password = cam2003ily	
				3	role = student	
				4	year = 2023	
				5	month = June	
				6	day = 20,21	
Test Scenario		Verify the vision of event information which does not exist on the Event Calendar.				

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Press to the "Event Calendar" section of the system.	The system should display the events of the semester.		
2.	Click the "Rasukan Resak" on the event calendar.	The system should display an error message.		
3.	Click "Back to Home Page".	The page should be redirected to the home page.		

8.3.3 TC003_03: Test Event Details Not Available (SD003)

Test Case ID		TC003_03			
Test Case Description		Test the case of event details on event calendar in KTDI Event Management System			
Created By		Li Hui	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	The student, a JKM KTDI or KTDI staff member, is logged into the event management system.			1	email = camily2003@graduate.utm.my
				2	password = cam2003ily
				3	role = student
				4	year = 2023
				5	month = June
				6	day = 20,21
				7	event name = Rasukan Resak
Test Scenario		Verify the availability of event details displayed on the Event Calendar.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
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1.	Press to the “Event Calendar” section of the system.	The system should display the events of the semester.		
2.	Click the “Rasukan Resak” on the event calendar.	The system should display an error message.		
3.	Click “Back to Home Page”.	The page should be redirected to the home page.		
4.	Generate a notification to JKM KTDI.	The JKM KTDI should be notified to update the event details.		

8.4 TC004: Test Event Preparation Subsystem: Task Distribution (UC004)

This test contains the following test cases:

- (a) TC004_01: Test Task Distribution (SD004)
- (b) TC004_02: Test Event Not Found (SD004)

8.4.1 TC004_01: Test Task Distribution (SD004)

Test Case ID		TC004_01				
Test Case Description		Test a successful case of task distribution in KTDI Event Management System				
Created By		Shu Yu	Reviewed By	Ying Xi	Version	1
QA Tester's Log		None				
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	JKM KTDI members who are logged into the system.			1	email = hanieali@graduate.utm.my	
				2	password = hanie123	
				3	role = JKM KTDI	
				4	event name = Rasukan Resak	
				5	unit = Multimedia unit	
Test Scenario		Verify JKM KTDI distributes tasks for the event “Rasukan Resak”.				

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
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1.	Navigate to the “Task” page of the system.	The system should show a list of available events folders.		
2.	Select “Rasukan Resak” event folder.	The system should show a list of the units for an event.		
3.	Select their unit folder.	The system should display an add button for uploading documents.		
4.	Upload their documents into their unit folder.	The document should be uploaded successfully.		

8.4.2 TC004_02: Test Event Not Found (SD004)

Test Case ID		TC004_02			
Test Case Description		Test the case of event not found during task distribution in KTDI Event Management System			
Created By		Shu Yu	Reviewed By	Ying Xi	Version 1
QA Tester’s Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	JKM KTDI members who are logged into the system.			1	email = hanieali@graduate.utm.my
				2	password = hanie123
				3	role = JKM KTDI
				4	event name = Berlumba Lari
Test Scenario		Verify JKM distributes tasks for the event “Berlumba Lari” which does not exist.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Task” page of the system.	The system should show a list of available event folders.		
2.	Select the “Berlumba Lari” event folder.	The system should display an error message.		
3.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.5 TC005: Test Event Preparation Subsystem: Upload Registration Link (UC005)

This test contains the following test cases:

- (a) TC005_01: Test Upload Registration Link (SD005)
- (b) TC005_02: Test Event is Ongoing or Finished (SD005)

8.5.1 TC005_01: Test Upload Registration Link (SD005)

Test Case ID		TC005_01						
Test Case Description		Test a successful case of upload registration link in KTDI Event Management System						
Created By		Shu Yu		Reviewed By	Ying Xi		Version	1
QA Tester's Log		None						
Tester name		Camily		Date tested	28 June 2023	Test case (Pass/Fail)		
S#	Prerequisites:			S#	Test Data			
1	JKM KTDI members who are logged into the system.			1	email = hanieali@graduate.utm.my			
				2	password = hanie123			
				3	role = JKM KTDI			
				4	event name = Rasukan Resak			
				5	registration link = https://docs.google.com/forms/d/e/1FAIpQLSdWdGg64jiAG0i33t38NW96nPFoKUPPHs1miRLNZFlysor04g/viewform?usp=sf_link			
Test Scenario		Verify JKM upload registration link for the event “Rasukan Resak”.						

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Event Calendar” page of the system.	The system should show a list of available events for the semester.		
2.	Select “Rasukan Resak” event.	The system should display an edit button.		
3.	Click on the edit button.	The system should display fields to fill in the details of the event, including the registration link field.		
4.	Upload the registration link.	The registration link should be visible to the students during registration.		

8.5.2 TC005_02: Test Event is Ongoing or Finished (SD005)

Test Case ID		TC005_02			
Test Case Description		Test the case of event is ongoing or finished when uploading registration link in KTDI Event Management System			
Created By		Shu Yu	Reviewed By	Ying Xi	Version 1
QA Tester’s Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:		S#	Test Data	

1	JKM KTDI members who are logged into the system.	1	email = hanieali@graduate.utm.my
2	The event “Berlumba Lari” is already finished.	2	password = hanie123
		3	role = JKM KTDI
		4	event name = Berlumba Lari
		5	registration link = https://docs.google.com/forms/d/e/1FAIpQLSdWdGg64jiAG0i33t38NW96nPFoKUPPHs1miRLNZFlysor04g/viewform?usp=sf_link
Test Scenario		Verify JKM upload registration link for the event “Berlumba Lari” which is already finished.	

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Event Calendar” page of the system.	The system should show a list of available events for the semester.		
2.	Select “Rasukan Resak” event folder.	The system should display an edit button.		
3.	Click on the edit button.	The system should display fields to fill in the details of the event, including the registration link field.		
4.	Upload the registration link.	The system should display an error message.		
5.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.6 TC006: Test Event Preparation Subsystem: View Progress (UC006)

This test contains the following test cases:

(a) TC006_01: Test View Progress (SD006)

8.6.1 TC006_01: Test View Progress (SD006)

Test Case ID		TC006_01				
Test Case Description		Test the case of view progress in KTDI Event Management System				
Created By		Shu Yu	Reviewed By	Ying Xi	Version	1
QA Tester’s Log		None				
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	JKM KTDI or KTDI staff members who are logged into the system.			1	email = hanieali@graduate.utm.my	
				2	password = hanie123	
				3	role = JKM KTDI	
				4	event name = Rasukan Resak	
				5	unit = Multimedia unit	
Test Scenario		Verify JKM views progress of the event “Rasukan Resak”.				

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
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1.	Navigate to the “Task” page of the system.	The system should show a list of available events folders.		
2.	Select “Rasukan Resak” event folder.	The system should show a list of the units for an event.		
3.	Select their unit folder.	JKM can view the documents for “Rasukan Resak”.		

8.7 TC007: Test Register Event Subsystem: Task Register Event (UC007)

This test contains the following test cases:

(a) TC007_01: Test Register Event (SD007)

(b) TC007_02: Test Event Registration Full (SD007)

8.7.1 TC007_01: Test Register Event (SD007)

Test Case ID		TC007_01			
Test Case Description		Test a successful case of register event in KTDI Event Management System			
Created By		Shu Yu	Reviewed By	Li Hui	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	The student is logged into the event management system.			1	email = camily2003@graduate.utm.my
2	The event registration link is open.			2	password = cam2003ily
				3	event name = Rasukan Resak
				4	name = Camily Tang Jia Lei
				5	ic = 030705060626
				6	matric = A22EC0039
				7	yearProgram = 1/SECPH
				8	contact = 01121976623
				9	college = KTDI
Test Scenario		Verified students are able to register for the event “Rasukan Resak”.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Event Calendar” page of the system.	The system should show a list of available events for the semester.		
2.	Select “Rasukan Resak” event folder.	The system should display the event details.		
3.	Click on the register button.	The system should display the registration form with required fields to fill in.		
4.	Fill in the required information and submit.	The system should confirm the successful registration and display the registered event on the student's profile page.		

8.7.2 TC007_02: Test Event Registration Full (SD007)

Test Case ID		TC007_02			
Test Case Description		Test the case of registration full during event registration in KTDI Event Management System			
Created By		Shu Yu	Reviewed By	Li Hui	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:		S#	Test Data	

1	The student is logged into the event management system.	1	email = camily2003@graduate.utm.my
2	The registration for “Rasukan Resak” is full.	2	password = cam2003ily
		3	event name = Rasukan Resak
		4	name = Camily Tang Jia Lei
		5	ic = 030705060626
		6	matric no = A22EC0039
		7	year/program = 1/SECPH
		8	contact no = 01121976623
		9	college = KTDI
Test Scenario		Verify students register for the event “Rasukan Resak” when the registration is full.	

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Event Calendar” page of the system.	The system should show a list of available events for the semester.		
2.	Select “Rasukan Resak” event folder.	The system should display the event details.		
3.	Click on the register button.	The system should display the registration form with required fields to fill in.		
4.	Fill in the required information and submit.	The system should display an error message.		

5.	Click “Back to Home Page”.	The page should be redirected to the home page.		
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8.8 TC008: Test Register Event Subsystem: View Registration (UC008)

This test contains the following test cases:

(a) TC008_01: Test View Registration (SD008)

8.8.1 TC008_01: Test View Registration (SD008)

Test Case ID		TC008_01			
Test Case Description		Test the case of view registration in KTDI Event Management System			
Created By		Shu Yu	Reviewed By	Li hui	Version 1
QA Tester's Log		None			
Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	JKM KTDI members who are logged into the system.			1	email = hanieali@graduate.utm.my
				2	password = hanie123
				3	role = JKM KTDI
				4	event name = Rasukan Resak
Test Scenario		Verify JKM view registration for the event "Rasukan Resak".			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Navigate to the "Task" page of the system.	The system should show a list of available events folders.		

2.	Select “Rasukan Resak” event folder.	The system should show a list of the units for an event.		
3.	Select the “Participants” folder.	The system should display a list of registered students for “Rasukan Resak”.		

8.9 TC009: Test Attendance and Feedback Subsystem: Upload Attendance and Feedback Link (UC009)

This test contains the following test cases:

- (a) TC009_01: Test Upload Attendance & Feedback Link (SD009)
- (b) TC009_02: Test Unavailable URL (SD009)

8.9.1 TC009_01: Test Upload Attendance & Feedback Link (SD009)

Test Case ID		TC009_01			
Test Case Description		Test the case of upload attendance and feedback link in KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1	JKM KTDI member who is logged into the system.			1	email = hanieali@graduate.utm.my
				2	password = hanie123
				3	role = JKM KTDI
				4	event = Rasukan Resak
				5	attFeedbacklink = https://forms.gle/tG64XxsZybW3pEEeA
Test Scenario		Verify JKM upload attendance and feedback link for the event "Rasukan Resak".			

Step #	Step Details	Expected result	Actual	Pass/Fail/
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			Results	Not execute/ Suspended
1.	Navigate to the “Event Calendar” page of the system.	The system should display a list of available events.		
2.	Select “Rasukan Resak” event for which attendance and feedback links need to be uploaded.	The system should show a form to upload the attendance and feedback link.		
3.	Select the “Edit” button.	The system should allow the JKM to edit the blank space of attendance and feedback link.		
4.	Fill in the URLs of the attendance and feedback links in the black space.	The required field is filled in.		
5.	Select the “Save” button.	The attendance and feedback links for the selected event are successfully uploaded and stored in the system.		

8.9.2 TC009_02: Test Unavailable URL (SD009)

Test Case ID	TC009_02				
Test Case Description	Test the case of unavailable URL for the attendance and feedback link in KTDI Event Management System				
Created By	Shu Yu	Reviewed By	Li Hui	Version	1
QA Tester’s Log	None				

Tester name		Camily	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	The JKM KTDI is logged into the event management system.			1	email = hanieali@graduate.utm.my	
2	The URL is unavailable to be uploaded for “Rasukan Resak '.			2	password = hanie123	
				3	role = JKM KTDI	
				4	event = Rasukan Resak	
				5	attFeedbacklink = http.form/tG64XxszbW3pE	
Test Scenario		Verify JKM KTDI is unavailable to upload the attendance and feedback link for “Rasukan Resak”				

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the "Event Calendar" page of the system.	The system should display a list of available events.		
2.	Select "Rasukan Resak" event for which attendance and feedback links need to be uploaded.	The system should show a form to upload the attendance and feedback link.		
3.	Select the "Edit" button.	The system should allow the JKM to edit the blank space of attendance and feedback link.		

4.	Select the “Save” button.	The system should display an error message.		
5.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.10 TC010: Test Attendance and Feedback Subsystem: Fill Attendance and Feedback (UC0010)

This test contains the following test cases:

- (a) TC010_01: Test Fill Attendance & Feedback (SD010)
- (b) TC010_02: Test Late Submission (SD010)

8.10.1 TC010_01: Test Fill Attendance & Feedback (SD010)

Test Case ID		TC010_01				
Test Case Description		Test the case of fill attendance and feedback form in KTDI Event Management System				
Created By		Camily	Reviewed By	Shu Yu	Version	1
QA Tester's Log		None				
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1	Student who is logged into the system.			1	email = camily2003@graduate.utm.my	
2.	The student is registered for the event.			2	password = cam2003ily	
3.	The event has taken place, and the attendance and feedback submission period is open.			3	role = student	
				4	event = Rasukan Resak	
				5	attFeedbacklink = https://forms.gle/tG64XxsZyBW3pEEeA	
				6	name = Camily Tang Jia Lei	
				7	ic = 030705060626	

		8	matric no = A22EC0039
		9	feedback = Excellent event
		10	secret code = 1234
Test Scenario		To verify that the student fills in the attendance and feedback form for the event “Rasukan Resak”.	

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Profile” page of the system.	The system displays the registered event details, including the event name, title, date, merit, and attendance and feedback form.		
2.	Clicks on the attendance and feedback link for “Rasukan Resak”.	The system should display the attendance and feedback form.		
3.	Fill in the required information and provide feedback regarding the event.	The required field is filled in.		
4.	Submit the attendance and feedback form.	The student's attendance and feedback for the event are successfully recorded in the system.		

8.10.2 TC010_02: Test Late Submission (SD010)

Test Case ID		TC010_02			
Test Case Description		Test the case of late submission of attendance and feedback form in KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:	S#	Test Data		
1	Student who is logged into the system.	1	email = camily2003@graduate.utm.my		
2.	The student is registered for the event.	2	password = cam2003ily		
3.	The event has taken place, and the attendance and feedback submission period is over.	3	role = student		
		4	event = Rasukan Resak		
		5	attFeedbacklink = https://forms.gle/tG64XxsZybW3pEEeA		
		6	name = Camily Tang Jia Lei		
		7	ic = 030705060626		
		8	matric no = A22EC0039		
		9	feedback = Excellent event		
		10	secret code = 1234		

Test Scenario	To verify that the student submits the attendance and feedback form late for the event “Rasukan Resak”.
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Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Profile” page of the system.	The system displays the registered event details, including the event name, title, date, merit, and attendance and feedback form..		
2.	Clicks on the attendance and feedback link for “Rasukan Resak”.	The system should display an error message.		
3.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.11 TC011: Test Attendance and Feedback Subsystem: View Attendance & Feedback (UC011)

This test contains the following test cases:

(a) TC011_01: Test View Attendance & Feedback (SD011)

(b) TC011_02: Test No Attendance and Feedback Can Be Found (SD011)

8.11.1 TC011_01: Test View Attendance & Feedback (SD011)

Test Case ID		TC011_01					
Test Case Description		Test the case of view attendance and feedback form in KTDI Event Management System					
Created By		Camily	Reviewed By	Shu Yu		Version	1
QA Tester's Log		None					
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)		
S#	Prerequisites:			S#	Test Data		
1	JKM KTDI who is logged into the system.			1	email = hanieali@graduate.utm.my		
2.	The attendance and feedback form is uploaded.			2	password = hanie123		
				3	role = JKM KTDI		
				4	event = rasukan rusak		
Test Scenario		To verify that the JKM KTDI can view the attendance and feedback form for the event “Rasukan Resak”.					

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
1.	Navigate to the “Task” page of the system.	The system presents a list of event folders.		
2.	Selects the specific event for which they want to view attendance and feedback.	The system displays the task delegation and respondents folders.		
3.	Selects on the “Attendance and Feedback” folder.	The system retrieves and displays the attendance and feedback details for the selected event, including the list of students who attended the event and their respective feedback replies in a list.		

8.11.2 TC011_02: Test No Attendance and Feedback Can Be Found (SD011)

Test Case ID		TC011_02			
Test Case Description		Test the case of no attendance and feedback can be found in KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester’s Log		None			
Tester name		Ying Xi	Date tested	8 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data

1.	JKM KTDI or KTDI staff member who is logged into the system.	1	email = hanieali@graduate.utm.my
2.	The attendance and feedback form is uploaded.	2	password = hanie123
3.	No student has filled in the attendance form.	3	role = JKM KTDI
Test Scenario		To verify that the JKM KTDI is unable to view the attendance and feedback form for the event “Rasukan Resak”.	

Step #	Step Details	Expected result	Actual Results	Pass/Fail/Not execute/Suspended
1.	Navigate to the “Task” page of the system.	The system presents a list of event folders.		
2.	Selects the specific event for which they want to view attendance and feedback.	The system displays the task delegation and respondents folders.		
3.	Selects on the “Attendance and Feedback” folder.	The system should display an error message.		
3.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.12 TC0012: Test Active Quota Subsystem: View Profile (UC012)

This test contains the following test cases:

(a) TC012_01: Test View Profile (SD012)

(b) TC012_02: Test Profile Information Leakage (SD012)

8.12.1 TC012_01: Test View Profile (SD012)

Test Case ID		TC012_01			
Test Case Description		Test the case of view profile in KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1.	JKM KTDI, KTDI staff member, or student who is logged into the system.			1	email = camily2003@graduate.utm.my
				2	password = cam2003ily
				3	role = student
Test Scenario		To verify that the JKM KTDI, KTDI staff member or the student can view their respective profiles.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
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1.	Navigate to the “Profile” page of the system.	The system displays their respective profiles according to their credentials.		
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8.12.2 TC012_02: Test Profile Information Leakage (SD012)

Test Case ID		TC012_02				
Test Case Description		Test the case of profile information leakage in KTDI Event Management System				
Created By		Camily	Reviewed By	Shu Yu	Version	1
QA Tester’s Log		None				
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)	
S#	Prerequisites:			S#	Test Data	
1.	JKM KTDI, KTDI staff member, or student who is logged into the system.			1	email = camily2003@graduate.utm.my	
				2	password = cam2003ily	
				3	role = student	
Test Scenario		To verify that the JKM KTDI, KTDI staff member, or student encounters profile information leakage.				

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
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1.	Navigate to the “Profile” page of the system.	The system encounters certain limitations or restrictions to make some information be hidden or accessible only to specific connections. The system should display an error message.		
2.	Click “Back to Home Page”.	The page should be redirected to the home page.		

8.13 TC0013: Test Active Quota Subsystem: View Active Quota (UC013)

This test contains the following test cases:

(a) TC013_01: Test View Active Quota (SD013)

(b) TC013_02: Test No Active Quota Status is Defined (SD013)

8.13.1 TC013_01: Test View Active Quota (SD013)

Test Case ID		TC013_01			
Test Case Description		Test the case of view active quota in KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester's Log		None			
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1.	JKM KTDI or KTDI staff member who is logged into the system.			1	email = hanieali@graduate.utm.my
				2	password = hanie123
				3	role = JKM KTDI
Test Scenario		To verify that the JKM KTDI, KTDI staff member or the student can view the list of active quota students.			

Step #	Step Details	Expected result	Actual Results	Pass/Fail/ Not execute/ Suspended
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1.	Navigate to the “Active Quota” page of the system.	The system displays the calculated active quota information, including the current quota status, and any details related to the respective students information.		
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8.13.2 TC013_02: Test No Active Quota Status is Defined (SD013)

Test Case ID		TC013_02			
Test Case Description		Test the case of no active quota status is defined in the KTDI Event Management System			
Created By		Camily	Reviewed By	Shu Yu	Version 1
QA Tester’s Log		None			
Tester name		Ying Xi	Date tested	28 June 2023	Test case (Pass/Fail)
S#	Prerequisites:			S#	Test Data
1.	JKM KTDI or KTDI staff member who is logged into the system.			1	email = hanieali@graduate.utm.my
				2	password = hanie123
				3	role = JKM KTDI
Test Scenario		To verify that the JKM KTDI or KTDI staff member is able to view students with no active quota status defined.			

Step #	Step Details	Expected result	Actual	Pass/Fail/
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			Results	Not execute/ Suspended
1.	Navigate to the “Active Quota” page of the system.	The system displays the calculated active quota information, including the current quota status, and any details related to the respective students information.		
2.	Scroll to view all students’ active quota status.	If the student did not attend any event which equally means that he or she did not fill in any of the attendance or feedback form, the system will display zero status on that student, indicating that no active quota is currently assigned or applicable.		

9. Test Approach Analysis

The test approach includes the use of boundary value analysis (BVA) and equivalence partitioning (EP) as part of the black-box testing strategy. Black-box testing strategy usually refers to a system's functional and behavioral testing. Regardless of the implementation of core code, the black-box approach concentrates on evaluating the system's input and output to ensure that it is operating as intended. The aim of conducting EP and BVA aims to decrease the amount of test cases to be executed. Both procedures are selected among the black-box testing methodologies.

9.1 TC001: Test Authentication Subsystem: Register account (UC001)

9.1.1 TC001_01: Test Register Account (SD001)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC001_01	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC001_01	3	name	Less than 5 characters	Camily Tang Jia Lei	More than 50 characters
TC001_01	3	ID_number	Less than 5 characters	A22EC0039	More than 20 characters
TC001_01	3	password	Less than 8 characters and not the combination of alphabet and number	cam2003ily	More than 50 characters and not the combination of alphabet and number
TC001_01	3	reenter_password	Not the same as the password	cam2003ily	Not the same as the password

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC001_01	3	role	Only select one type role	Select more than one role

9.1.2 TC001_02: Test Already Have Valid Account (SD001)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC001_02	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format

- Boolean/Set value
NO INPUT DATA

9.1.3 TC001_03: Test Required Field(s) is/are Empty (SD001)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC001_03	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC001_03	3	ID_number	Less than 5 characters	A22EC0039	More than 20 characters
TC001_03	3	password	Less than 8 characters and not the combination of alphabet and number	cam2003ily	More than 50 characters and not the combination of alphabet and number
TC001_03	3	reenter_password	Not the same as the password	cam2003ily	Not the same as the password

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC001_03	3	role	Only select one type role	Select more than one role

9.2 TC002: Test Authentication Subsystem: Login (UC002)

9.2.1 TC002_01: Test Successful login (SD002)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC002_01	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC002_01	3	password	Less than 8 characters and not the combination of alphabet and number	cam2003ily	More than 50 characters and not the combination of alphabet and number

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC002_01	3	role	Select the corresponding role to account	Select the role that is not belonging to the account

9.2.2 TC002_02: Test Invalid login (SD002)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC002_02	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC002_02	3	password	Less than 8 characters and not the combination of alphabet and number	cam2003	More than 50 characters and not the combination of alphabet and number

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC002_02	3	role	Select the corresponding role to account	Select the role that is not belonging to the account

9.2.3 TC002_03: Test Reset password (SD002)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC002_03	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC002_03	3	password	Less than 8 characters and not the combination of alphabet and number	ily2003cam	More than 50 characters and not the combination of alphabet and number

- Boolean/Set value
NO INPUT DATA

9.3 TC003: Test Create Event Subsystem : Event Calendar (UC003)

9.3.1 TC003_01: Test Event Calendar (SD003)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC003_01	4	year	Less than 2010 and invalid year format	2023	More than 2100 and invalid year format
TC003_01	4	day	Less than 1	20	More than 31
TC003_01	4	mode	Less than 1 characters	physical	More than 50 characters
TC003_01	4	description	Less than 1 characters	cam2003ily	More than 300 characters
TC003_01	4	venue	Less than 1 characters	MPK2, N28	More than 50 characters

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC003_01	3	month	Select the month listed in dropdown list	No date is selected

9.3.2 TC003_02: Test Event Not Found (SD003)

NO INPUT DATA

9.3.3 TC003_03: Test Event Details Not Available (SD003)

NO INPUT DATA

9.4 TC004: Test Event Preparation Subsystem: Task Distribution (UC004)

9.4.1 TC004_01: Test Task Distribution (SD004)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC004_01	4	document	No file uploaded	Below 200KB	More than 200KB

- Boolean/Set value
NO INPUT DATA

9.4.2 TC004_02: Test Event Not Found (SD004)

NO INPUT DATA

9.5 TC005: Test Event Preparation Subsystem: Upload Registration Link (UC005)

9.5.1 TC005_01: Test Upload Registration Link (SD005)

- Range value
NO INPUT DATA
- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC005_01	4	registration link	Correct protocol, proper domain name, valid path, proper format	Missing protocol, invalid domain name, incorrect path

9.5.2 TC005_02: Test Event is Ongoing or Finished (SD005)

- Range value
NO INPUT DATA
- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC005_01	4	registration link	Correct protocol, proper domain name, valid path, proper format	Missing protocol, invalid domain name, incorrect path

9.6 TC006: Test Event Preparation Subsystem: View Progress (UC006)

9.6.1 TC006_01: Test View Progress (SD006)

NO INPUT DATA

9.7 TC007: Test Register Event Subsystem: Task Register Event (UC007)

9.7.1 TC007_01: Test Register Event (SD007)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC007_01	4	name	Less than 5 characters	Camily Tang Jia Lei	More than 50 characters
TC007_01	4	matric	Less than 5 characters	A22EC0039	More than 20 characters
TC007_01	4	ic	Less than 12 numbers and not the format of ic	030705060626	More than 12 numbers and not the format of ic
TC007_01	4	yearProgram	Less than 5 characters	1/SECPH	More than 10 numbers
TC007_01	4	contact	Less than 8 number or not in numbers	01121976623	More than 20 numbers or not in numbers
TC007_01	4	college	Less than 2 characters	KTDI	More than 50 characters

- Boolean/Set value
NO INPUT DATA

9.7.2 TC007_02: Test Event Registration Full (SD007)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC007_02	4	name	Less than 5 characters	Camily Tang Jia Lei	More than 50 characters
TC007_02	4	matric	Less than 5 characters	A22EC0039	More than 20 characters
TC007_02	4	ic	Less than 12 numbers and not the format of ic	030705060626	More than 12 numbers and not the format of ic

TC007_02	4	yearProgram	Less than 5 characters	1/SECPH	More than 10 numbers
TC007_02	4	contact	Less than 8 number or not in numbers	01121976623	More than 20 numbers or not in numbers
TC007_02	4	college	Less than 2 characters	KTDI	More than 50 characters

- Boolean/Set value
NO INPUT DATA

9.8 TC008: Test Register Event Subsystem: View Registration (UC008)

9.8.1 TC008_01: Test View Registration (SD008)

NO INPUT DATA

9.9 TC009: Test Attendance and Feedback Subsystem: Upload Attendance and Feedback Link (UC009)

9.9.1 TC009_01: Test Upload Attendance & Feedback Link (SD009)

Range value

NO INPUT DATA

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC009_01	4	attFeedbacklink	Correct protocol, proper domain name, valid path, proper format	Missing protocol, invalid domain name, incorrect path

9.9.2 TC009_02: Test Unavailable URL (SD009)

- Range value
NO INPUT DATA

- Boolean/Set value

Test Case ID	Step#	Input data	Valid	Invalid
TC009_02	4	attFeedbacklink	Correct protocol, proper domain name, valid path, proper format	Missing protocol, invalid domain name, incorrect path

9.10 TC010: Test Attendance and Feedback Subsystem: Fill Attendance and Feedback (UC0010)

9.10.1 TC010_01: Test Fill Attendance & Feedback (SD010)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC010_01	3	name	Less than 5 characters	Camily Tang Jia Lei	More than 50 characters
TC010_01	3	matric	Less than 5 characters	A22EC0039	More than 20 characters
TC010_01	3	ic	Less than 12 numbers and not the format of ic	030705060626	More than 12 numbers and not the format of ic
TC010_01	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC010_01	3	feedback	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC010_01	3	secretCode	Less than 6 characters	S6jh7T	More than 6 characters

- Boolean/Set value
NO INPUT DATA

9.10.2 TC010_02: Test Late Submission (SD010)

- Range value

Test Case ID	Step#	Input data	Invalid	Valid	Invalid
TC010_01	3	name	Less than 5 characters	Camily Tang Jia Lei	More than 50 characters
TC010_01	3	matric	Less than 5 characters	A22EC0039	More than 20 characters

TC010_01	3	ic	Less than 12 numbers and not the format of ic	030705060626	More than 12 numbers and not the format of ic
TC010_01	3	email	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC010_01	3	feedback	Less than 5 characters and not in UTM email format	camily2003@graduate.utm	More than 50 characters and not in UTM email format
TC010_01	3	secretCode	Less than 6 characters	S6jh7T	More than 6 characters

- Boolean/Set value
NO INPUT DATA

9.11 TC011: Test Attendance and Feedback Subsystem: View Attendance & Feedback (UC011)

9.11.1 TC011_01: Test View Attendance & Feedback (SD011)

NO INPUT DATA

9.11.2 TC011_02: Test No Attendance and Feedback Can Be Found (SD011)

NO INPUT DATA

9.12 TC012: Test Active Quota Subsystem: View Profile (UC012)

9.12.1 TC012_01: Test View Profile (SD012)

NO INPUT DATA

9.12.2 TC012_02: Test Profile Information Leakage (SD012)

NO INPUT DATA

9.13 TC013: Test Active Quota Subsystem: View Active Quota (UC013)

9.13.1 TC013_01: Test View Active Quota (SD013)

NO INPUT DATA

9.13.2 TC013_02: Test No Active Quota Status is Defined (SD013)

NO INPUT DATA

Appendix A: Traceability Matrix

Test Case ID	Use Case ID/ Sequence Diagram ID	Package ID
TC001 for <Authentication> Subsystem <ul style="list-style-type: none"> · TC001_01 · TC001_02 · TC001_03 	UC001 <ul style="list-style-type: none"> · SD001 · SD002 · SD003 	P001
TC002 for <Authentication> Subsystem <ul style="list-style-type: none"> · TC002_01 · TC002_02 	UC002 <ul style="list-style-type: none"> · SD004 · SD005 	P001
TC003 for <Create Event> Subsystem <ul style="list-style-type: none"> · TC003_01 · TC003_02 · TC003_03 	UC003 <ul style="list-style-type: none"> · SD006 · SD007 · SD008 	P002
TC004 for <Event Preparation> Subsystem <ul style="list-style-type: none"> · TC004_01 · TC004_02 	UC004 <ul style="list-style-type: none"> · SD009 · SD010 	P003
TC005 for <Event Preparation> Subsystem <ul style="list-style-type: none"> · TC005_01 · TC005_02 	UC005 <ul style="list-style-type: none"> · SD011 · SD012 	P003

TC006 for <Event Preparation> Subsystem · TC006_01	UC006 · SD013	P003
TC007 for <Register Event> Subsystem · TC007_01 · TC007_02	UC007 · SD014 · SD015	P003
TC008 for <Register Event> Subsystem · TC008_01	UC008 · SD016	P003
TC009 for <Attendance and Feedback> Subsystem · TC009_01 · TC009_02	UC009 · SD017 · SD018	P004
TC010 for <Attendance and Feedback> Subsystem · TC010_01 · TC010_02	UC0010 · SD019 · SD020	P004
TC011 for <Attendance and Feedback> Subsystem · TC011_01 · TC011_02	UC0011 · SD021 · SD022	P004
TC012 for <Active Quota> Subsystem · TC012_01 · TC012_02	UC0012 · SD023 · SD024	P005
TC013 for <Active Quota> Subsystem · TC013_01 · TC013_02	UC0013 · SD025 · SD026	P005