



SECP3204: Software Engineering WBL

# **System Test Description (STD) Documentation**

Project Title: Food Ordering System at Arked  
Angkasa, UTM

Version 1.0

Date: 15 June 2023

School of Computing, Faculty of Engineering

Prepared by: Beta

## Revision Page

---

### a. Overview

The STD document for the Food Ordering System at Arked Angkasa, UTM provides an overview of the testing process for the system. It includes an introduction to the document, a system overview that describes its purpose and key functionalities, testing objectives, and the scope of testing. The document serves as a guide for testers and stakeholders involved in ensuring the quality and functionality of the food ordering system.

### b. Target Audience

The target audience for the Food Ordering System at Arked Angkasa includes UTM (Universiti Teknologi Malaysia) students who reside or frequently visit Arked Angkasa. The system is designed to cater specifically to their needs and provide them with a convenient and efficient food ordering experience. The target audience can be further defined as follows:

1. **UTM Students:** The primary target audience consists of UTM students from various faculties and programs. These students may have busy schedules and limited time for meal preparation, making the Food Ordering System a valuable solution for their food requirements.
2. **UTM Staff:** UTM faculty and administrative staff can benefit from the Food Ordering System by conveniently ordering food from Sdap Kitchen and drinks from Deen Corner. The system can provide them with a time-saving solution for their meal requirements during working hours.

**c. Project Team Members**

<b>Member Name</b>	<b>Role</b>	<b>Task</b>	<b>Status</b>
MUHAMMAD DANIEL HAKIM BIN SYAHRULNIZAM	Requirements Analyst	TC001	Complete
MUHAMMAD ARIFF DANISH BIN HASHNAN	Developer	TC003	Complete
MUHAMMAD SAFWAN BIN MOHD AZMI	Quality Assurance	TC002	Complete
MUHAMMAD IMAN FIRDAUS BIN BAHARUDDIN	User Experience Designer	TC005	Complete
CHE MARHUMI BIN CHE AB RAHIM	Documentation Specialist	TC004	Complete

## Table of Contents

---

### 8 Test Cases

8.1	TC001: Test <User Management and Authentication > Subsystem: <Manage Account (UC001)>	
	8.1.1	TC001_01: Test <Verify User Login and Register Account (SD001)>
	8.1.2	TC001_02: Test <Manage Administrator Account (SD002)>
8.2	TC002: Test <Name of Package 2> Subsystem: <Name of Use Case (UC002)>	
	8.2.1	TC002_01: Test <Customer Receive Notification (SD001)>
	8.2.2	TC002_02: Test <Admin Receive Notification (SD002)>
	8.2.3	TC002_03: Test <Staff Operator Receive Notification (SD003)>
8.3	TC003: Test <Name of Package 3> Subsystem: <Name of Use Case (UC003)>	
	8.3.1	TC003_01: Test <Scenario of Sequence Diagram 1 (SD001)>
	8.3.2	TC003_02: Test <Scenario of Sequence Diagram 2 (SD002)>
8.4	TC004: Test <Menu and Inventory Management> Subsystem: <Manage Menu (UC004)> and <Browser Menu (UC005)>	
	8.4.1	TC004_01: Test <Administrator Manage Menu (SD001)>
	8.4.2	TC004_02: Test <User Browser Menu (SD002)>
8.5	TC005: Test <Ordering and Payment Management> Subsystem: <Placing Order (UC006)>, <Payment Process (UC007)> and <Handle Order (UC008)>	

	8.5.1	TC005_01: Test <Customer Placing An Order (SD001)>
	8.5.2	TC005_02: Test <Customer Proceed To Payment Process (SD002)>
	8.5.3	TC005_03: Test <Staff Handling Order From Customer (SD003)>
<b>Appendices</b>		
Appendix A: Traceability Matrix		

## 8. Test Cases

### 8.1 TC001: Test <User Management and Authentication> Subsystem: <Manage Account (UC001)>

#### 8.1.1 TC001\_01: Test <Verify User Login and Register Account (SD001)>

Test case ID	TC001_01	Test Case Description	Test the Manage Account Functionality		
Created By	Hakim	Reviewed By	Hakim	Version	1
QA Tester Log	Tester's Review comments from Bil incorporated in version 2.1				
Tester's Name	Hakim	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	A registered user account in the Food Ordering System.		1	Username = mg12345	
			2	Password: 12345678	
			3	New Password: 87654321	
Test Scenario	verify on validating valid user id, password and the customer can login				
Step	Step Details		Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended
1	Open the Food Ordering System application.		The account management page should be displayed, showing options to update personal information, change password, and view order history.	The account management page is displayed, showing options to update personal information, change password, and view order history.	Pass
2	Click on the "Login" button.				
3	Enter the username and password for the registered customer account.				
4	Click on the "Login" button.				
5	Navigate to the account management section.				
6	Click on the "Manage Account" option.				

#### 8.1.2 TC001\_02: Test <Manage Administrator Account (SD002)>

Test case ID	TC001_02	Test Case Description	Test the Manage Account Functionality		
Created By	Hakim	Reviewed By	Hakim	Version	1
QA Tester Log	Tester's Review comments from Bil incorporated in version 2.1				
Tester's Name	Hakim	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
	1 An installed and configured Food Ordering System.			1 Username: admin1	
	2 Access to the system as an Administrator.			2 Password: Admin@123	
	3 Test data for different types of user accounts (e.g., customer, manager).				
Test Scenario	Managing an account as an Administrator involves performing actions such as creating new accounts, updating existing account information				
Step	Step Details		Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended
1	Log in to the Food Ordering System as an Administrator using the provided test		The changes made to the account information should be saved and reflected in the account list.	The account management page is displayed, showing options to update personal information, change password, and view order history.	Pass
2	Navigate to the "Manage Accounts" section.				
3	Create a new user account by filling in the required information, such as				
4	Save the new account details.				
5	Edit the account information of an existing user, such as changing the contact				
6	Save the updated account information.				

## 8.2 TC002: Test case TC002<Notification> Subsystem: <Sending Notification (UC002)>

### 8.2.1 TC002\_01: Test <Customer Receive Notification (SD001)>

Test case ID	TC002_01	Test Case Description	Test the Sending notification Functionality		
Created By	Safwan	Reviewed By	Ariff	Version	1
QA Tester Log	Tester's Review comments from Bil incorporated in version 2.1				
Tester's Name	Safwan	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	Ensure that the Food Ordering System is properly installed and running.		1	Customer Name: John Doe	
2	Make sure that there are registered users with different roles		2	Customer Email: johndoe@example.com	
			3		
Test Scenario	As a customer, place an order on the Food Ordering System.				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Navigate to the Food Ordering System website or application.	The system should display a confirmation message indicating that the order has been placed successfully.	The account management page is displayed, showing options to update personal information, change password, and view order history.	Pass	
2	Log in using the customer account credentials.				
3	Browse the menu, select items, and proceed to checkout.				
4	Complete the order placement process by providing necessary details.				
5	Click on the "Place Order" button.				

### 8.2.2 TC002\_02: Test <Administrator Receive Notification (SD002)>

Test case ID	TC002_02	Test Case Description	Test the Sending notification Functionality		
Created By	Safwan	Reviewed By	Hakim	Version	1
QA Tester Log					
Tester's Review comments from Bil incorporated in version 2.1					
Tester's Name	Safwan	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	The system should display a notification indicating that a new order has		1	Admin Name: Admin1	
2	The notification should contain relevant order details (customer name, or		2	Admin Email: admin1@example.com	
Test Scenario	As an admin, verify that the notification is sent when a new order is placed.				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Log in to the Food Ordering System using the admin account credentials.	The system should display a notification indicating that a new order has been placed and the notification should contain relevant order details (customer name, order number, etc.).		Pass	
2	Navigate to the admin dashboard or notifications section.				
3	Verify that a new order notification is displayed.				

### 8.2.3 TC002\_03: Test <Staff Operator Receive Notification (SD003)>

Test case ID		TC002_02	Test Case Description		Test the Sending notification Functionality		
Created By		Safwan	Reviewed By		Hakim	Version	1
QA Tester Log		Tester's Review comments from Bil incorporated in version 2.1					
Tester's Name		Safwan	Date Tested		24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:				S #	Test Data	
1	The system should display a notification indicating that a new order has been placed.				1	Staff Operator Name: Operator1	
2	The notification should contain relevant order details (customer name, order number, etc.).				2	Staff Operator Email: operator1@example.com	
Test Scenario		As an admin, verify that the notification is sent when a new order is placed.					
Step	Step Details				Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended
1	Log in to the Food Ordering System using the admin account credentials.				The system should display a notification indicating that a new order has been assigned to the operator.The notification should contain relevant order details (customer name, order number,	Verify that the expected results match the actual results for each user role.  Ensure that the notifications are sent promptly and contain accurate information.	Pass
2	Navigate to the staff operator dashboard or notifications section.						
3	Verify that a notification is displayed when a new order is assigned to the operator.						



### 8.3 TC003: Test < Feedback and Rating > Subsystem: < Provide feedback and rating (UC003)>

#### 8.3.1 TC003\_01 : Test <User Provide Feedback and Rating (SD001)>

Test case ID	TC003_01	Test Case Description	Test the Feedback and Rating (User)		
Created By	Ariff	Reviewed By	Hakim	Version	1
QA Tester Log	None				
Tester's Name	Ariff	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:	S #	Test Data		
1	User completed their orders.	1	Username : User1		
2	The system should provide optional feedback and rating.	2	Email : user1@example.com		
3	User give feedback and rating based on the system needs.	3			
Test Scenario	User provides feedback and rating.				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Log in / Sign up account.	After completed the order, user should have to give feedback rating based on the system needs. They will receive notification after submitting the feedback.	User give the feedback and rating after submit order. They also receive the notification.	Pass	
2	Browse menu and order.				
3	Proceed payment.				
4	Receive summary order.				
5	Complete the question feedback and give rating				
6	Notification will arrive after the submit.				

#### 8.3.2 TC003\_02 : Test <Administrator Receive the Feedback and Rating (SD002)>

Test case ID	TC003_02	Test Case Description	Test the Feedback and Rating (Admin)		
Created By	Ariff	Reviewed By	Hakim	Version	1
QA Tester Log	None				
Tester's Name	Ariff	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:	S #	Test Data		
1	Admin receives notification from the user.	1	Username : Admin1		
		2	Email : sdapkitchen@gmail.com		
		3			
Test Scenario	Admin receives the feedback and rating form user.				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Log in account.	Admin could notify the notification from the user.	Admin notice the notification and also can take notes all the feedback from the user.	Pass	
2	Click button notification.				
3	Click the receive notifications.				
4					
5					
6					

## 8.4 TC004: Test <Menu and Inventory Management> Subsystem: <Manage Menu (UC004)>

### 8.4.1 TC004\_01: Test <Administrator Manage Menu (SD001)>

Test case ID	TC004_01	Test Case Description	Test the manage menu functionality for admin		
Created By	Marhumi	Reviewed By	Hakim	Version	1
QA Tester Log	None				
Tester's Name	Marhumi	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:	S #	Test Data		
1	Access to desktop/computer	1	Admin email = sdapKitchen@gmail.com		
2	Access to internet	2	Password = BetaTest1		
3	Access to the app	3	Manage product		
4		4	Add product quantity		
Test Scenario	Admin want to manage their product				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Log in the app as an admin	Successfully log in the app as an admin	As expected	Pass	
2	Navigate to "Product List"	List of product is showing on the screen	As expected	Pass	
3	Click "Manage Stock"	Go to product page and can manage the selected product	As expected	Pass	

### 8.4.2 TC004\_02: Test <User Browser Menu (SD002)>

Test case ID	TC005_01	Test Case Description	Test the browser menu functionality for user		
Created By	Marhumi	Reviewed By	Hakim	Version	1
QA Tester Log	None				
Tester's Name	Marhumi	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	Access to desktop/computer		1	user email = sdapKitchen@gmail.com	
2	Access to internet		2	Password = BetaTest1	
3	Access to the app		3	"Teh tarik"	
4			4	"Deen Corner"	
Test Scenario	As a user, to buy a food we wanted from the list of menu is not convenience. So search for specific menu we want through browser functionality is suitable.				
Step	Step Details		Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended
1	Click the store name or icon		Automatically go to vendor page	As expected	Pass
2	User at vendor page		List of menu is showing on the screen	As expected	Pass
3	Click "Search"		User can browse menu or other vendor they want	As expected	Pass

## 8.5 TC005: Test <Ordering and Payment Management> Subsystem: <Placing Order (UC006)>, <Payment Process (UC007)> and <Handle Order (UC008)>

### 8.5.1 TC005\_01: Test <Customer Place Order (SD001)>

Test case ID	TC005_01	Test Case Description	Customer Place Order		
Created By	Iman	Reviewed By	Hakim	Version	1
QA Tester Log	None				
Tester's Name	Marhumi	Date Tested	24-Jun-23	Test Case (pass/Fail/Not)	Pass
S #	Prerequisites:		S #	Test Data	
1	Ensure that the food ordering system is accessible and functional.		1	Username = mk34743	
2	Make sure that the necessary user accounts are set up and available.		2	Password: 22446688	
3	Ensure that the system is connected to a database with sample menus.		3	Sample Menu	
Test Scenario	verify that customers can successfully place an order through the food ordering system.				
Step	Step Details		Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended
1	Select a restaurant from the available options.		The customer should be able to successfully complete all the steps mentioned above without any errors or issues. The order summary should display the correct food items, quantities, customizations, and the total amount. The system should generate a confirmation message or notification for the placed order. The order details should be stored in the database and be accessible to the restaurant.	The customer managed to log in, pick option from menu, review the order summary correctly, pay and confirm the order without any problem	Pass
2	Browse the menu to view the list of food items and their details.				
3	Select one or more food items to add to the order.				
4	Review the order summary.				
5	Proceed to the payment section and select a payment method.				
6	Enter the necessary payment details and confirm the order.				
7	Receive a confirmation message or notification for the placed order.				

### 8.5.2 TC005\_02: Test <Customer Proceed to Payment Process (SD002)>

Test case ID	TC005_03	Test Case Description	Test the Payment Process Functionality		
Created By	Hakim	Reviewed By	Hakim	Version	1
QA Tester Log	Tester's Review comments from Bil incorporated in version 2.1				
Tester's Name	Hakim	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	A functional Food Ordering System with a Payment Process implemented.		1	Valid debit card details (e.g., card number, expiration date, CVV).	
2	Test environment set up and running.		2	Invalid debit card details (e.g., expired card, incorrect CVV).	
3	Access to valid payment methods (e.g., debit card, QR Code, etc.) for testing		3	Valid QR Codes details.	
4	Test data for various payment scenarios.		4	Invalid QR Codes details.	
Test Scenario	As a customer, they need to test the payment process to ensure that it functions correctly and securely.				
Step	Step Details	Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Open the Food Ordering System.	The payment process should initiate without any errors.	The payment process initiated successfully without any errors.	Pass	
2	Select items to add to your order.	The payment details should be securely transmitted and	The payment details were securely transmitted and processed using encryption	Pass	
3	Proceed to the checkout or payment page.	The payment should be successfully processed.	The payment was successfully processed, and the transaction was authorized by the	Pass	
4	Select the payment method (e.g., debit card, QR Code).	A confirmation message or receipt should be displayed.	A confirmation message was displayed, showing the details of the completed	Pass	
5	Enter the required payment details based on the selected payment method.	The payment amount should be correctly deducted from your	The payment amount was accurately deducted from the customer's account.	Pass	
6	Click on the "Pay Now" or "Proceed" button to initiate the payment process.	The order details should be updated with the payment status	The order details were updated, reflecting the payment status as "Paid" or "Completed."	Pass	
7	Verify that the payment is processed successfully.				
8	Check if the system displays a confirmation message or receipt.				
9	Verify that the payment amount is correctly deducted from your account.				
10	Verify that the order details are updated with the payment status.				

### 8.5.3 TC005\_03: Test <Operator Staff Handle Order (SD003)>

Test case ID	TC005_03	Test Case Description	Staff Handling Order			
Created By	Iman	Reviewed By	Hakim	Version	1	
QA Tester Log	None					
Tester's Name	Ariff	Date Tested	24-Jun-23	Test Case (pass/Fail/Not	Pass	
S #	Prerequisites:		S #	Test Data		
1	Ensure that the staff member account is set up and authenticated in system.		1	Username: admin1		
2	The system has an order management feature accessible to staff.		2	Password: Admin@123		
3	Ensure that there are existing orders in the system for testing purposes.		3	Nasi Lemak Order		
Test Scenario						
staff members can effectively handle and manage orders in the food ordering system.						
Step	Step Details		Expected Result	Actual Result	Pass/Fail/Not Executed/Suspended	
1	Access the order management feature of the system.		The staff member should be able to access the order management feature and view a list of orders, the detail of orders and also can update the order status without any problem	The staff member able to access the order management feature and view a list of orders, the detail of orders and also can update the order status without any problem	Pass	
2	View the list of orders					
3	select an order from the list to handle and retrieve the details.					
4	Update the order status based on current stage of the order (e.g., in making)					

## Appendices

---

### Appendix A: Traceability Matrix

Test Case ID	Use Case ID/ Sequence Diagram ID	Package ID
TC001 for <User Management and Authentication> Subsystem <ul style="list-style-type: none"><li>• TC001_01</li><li>• TC001_02</li></ul>	UC001 <ul style="list-style-type: none"><li>• SD001</li><li>• SD002</li></ul>	P001
TC002 for <Notification> Subsystem <ul style="list-style-type: none"><li>• TC002_01</li><li>• TC002_02</li></ul>	UC002 <ul style="list-style-type: none"><li>• SD001</li><li>• SD002</li><li>• SD003</li></ul>	P002
TC003 for <Feedback and Rating> Subsystem <ul style="list-style-type: none"><li>• TC003_01</li><li>• TC003_02</li></ul>	UC003 <ul style="list-style-type: none"><li>• SD001</li><li>• SD002</li></ul>	P003
TC004 for <Menu and Inventory Management> Subsystem <ul style="list-style-type: none"><li>• TC004_01</li><li>• TC004_02</li></ul>	UC005 <ul style="list-style-type: none"><li>• SD001</li></ul> UC006 <ul style="list-style-type: none"><li>• SD002</li></ul>	P004
TC005 for <Ordering and Payment Management> Subsystem <ul style="list-style-type: none"><li>• TC005_01</li><li>• TC005_02</li><li>• TC005_03</li></ul>	UC006 <ul style="list-style-type: none"><li>• SD001</li></ul> UC007 <ul style="list-style-type: none"><li>• SD002</li></ul> UC008 <ul style="list-style-type: none"><li>• SD003</li></ul>	P005