

Ex. No.: 10

Roll No.: 22BCS100

Date : 17/4/2025

System Testing

Aim

To write test cases and perform system testing for E-Governance Portal for Public Services system by manual testing.

Test cases

Scenario-1 User Registration and Authentication

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC001a	Login form	Username: user1, Password: empty	Alert box showing "Please fill password"	Alert box showing "Please fill password"	Pass
TC001b	Registration form	All fields empty	Alert box showing "Please fill all fields"	No output	Fail
TC001c	Registration form	Valid user data	User registered and redirected to login	User registered and redirected	Pass
TC001d	Login form	Correct credentials	Redirect to dashboard	Redirect to dashboard	Pass
TC001e	Login form	Incorrect credentials	Error message "Invalid login"	Error message shown	Pass

Scenario-2 Service Application Management

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC002a	Service selection page	Service: "Housing Assistance"	Form for selected service displayed	Form displayed	Pass
TC002b	Service form	Incomplete	Alert: "Please	Alert shown	Pass

		details	complete all required fields”		
TC002c	Service form	Valid details	Service request submitted successfully	Request submitted	Pass
TC002d	Service edit option	Modify previously submitted data	Updated successfully	Update confirmed	Pass
TC002e	Cancel application	User clicks cancel	Confirmation prompt and cancellation	Cancel confirmed	Pass

Scenario-3 Resource Availability Tracking

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC003a	Resource status page	Select resource category	Display list of available resources	List displayed	Pass
TC003b	Resource filter	Apply filter: availability = "today"	Show only today's available resources	Filtered list shown	Pass
TC003c	Resource details	Click on resource item	Display full details	Details shown	Pass
TC003d	Resource unavailable	Try to book unavailable resource	Show message: “Resource not available”	Correct message shown	Pass
TC003e	Availability refresh	Click refresh	Update resource availability status	Status updated	Pass

Scenario-4 Payment Gateway

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC004a	Payment page	Invalid card number	Show error message	Error displayed	Pass
TC004b	Payment page	Valid payment details	Transaction successful, move to next	Payment success	Pass

			step		
TC004c	Payment retry	Fail payment, retry again	Payment completed after retry	Success after retry	Pass
TC004d	Payment timeout	No response	Timeout error shown	Timeout handled	Pass
TC004e	Payment history	View transaction history	Show past transactions	History displayed	Pass

Scenario-5 Document Management System

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC005a	Upload section	Upload valid PDF	File uploaded successfully	Upload success	Pass
TC005b	Upload section	Upload unsupported file type	Show error message: "Invalid file type"	Error shown	Pass
TC005c	View documents	Click on document	Preview document	Preview shown	Pass
TC005d	Delete document	Confirm deletion	Document deleted	Deletion successful	Pass
TC005e	Upload size check	Upload file > 10MB	Show error message	Size error shown	Pass

Scenario-6 Application Tracking

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC006a	Track application page	Valid application ID	Show application status	Status shown	Pass
TC006b	Track application	Invalid application ID	Show error message	Error shown	Pass
TC006c	View history	Click on "View Timeline"	Show status timeline	Timeline displayed	Pass
TC006d	Reopen application	Click on "Reopen Request"	Application reopened	Reopened successfully	Pass

TC006e	Application feedback	Submit feedback	Show confirmation message	Confirmation shown	Pass
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Scenario-7 Notification and Alerts

Test ID	User Interface / Method	Input Given	Expected Output	Actual Output	Testing Status
TC007a	Notification panel	Login to dashboard	Show unread notifications	Notifications shown	Pass
TC007b	Email alerts	Trigger alert event	Email sent to user	Email received	Pass
TC007c	SMS alerts	Enable SMS for status update	Receive SMS upon change	SMS received	Pass
TC007d	Clear notifications	Click “Clear All”	Notifications cleared	Cleared	Pass
TC007e	Notification settings	Disable email	Stop receiving emails	Emails stopped	Pass

Result

Thus the test cases were written and system testing for E-Governance Portal for Public Service system is done by manual testing