

Technique	Description	Implementation	Code Sample	Notes	Links	Comments	Version	File
Navigation	Navigation techniques involve navigating between pages or sections of a web application.	Navigation techniques include:	<pre>1. Using the back and forward buttons in the browser to move between pages. 2. Clicking on links or buttons that trigger page transitions. 3. Using the search function to find specific content on a page. 4. Using the menu bar to access different sections of the application. 5. Using the sidebar or navigation bar to switch between different views or modules.</pre>					
Form Filling	Form filling techniques involve interacting with input fields, dropdown menus, and other form elements to enter data.	Form filling techniques include:	<pre>1. Entering text into text input fields. 2. Selecting options from dropdown menus. 3. Checking or unchecking checkboxes and radio buttons. 4. Uploading files through file input fields. 5. Entering dates and times using date and time pickers.</pre>					
JavaScript Interactions	JavaScript interactions involve manipulating the DOM and triggering events to perform actions.	JavaScript interactions include:	<pre>1. Clicking on specific elements like buttons or links. 2. Hovering over elements to trigger hover effects. 3. Typing into input fields to trigger key events. 4. Dragging and dropping elements to rearrange them. 5. Using keyboard shortcuts to perform actions.</pre>					
Session Management	Session management techniques involve managing user sessions, such as logging in and out.	Session management techniques include:	<pre>1. Logging in using credentials like email and password. 2. Staying logged in by using session cookies. 3. Logging out by clicking a logout link. 4. Managing session timeout settings.</pre>					
API Testing	API testing techniques involve testing the application's API endpoints to ensure they return the expected results.	API testing techniques include:	<pre>1. Making HTTP requests to API endpoints using tools like Postman or cURL. 2. Checking response status codes and data formats. 3. Testing authentication endpoints like OAuth. 4. Testing pagination and sorting features.</pre>					
Database Queries	Database query techniques involve interacting with the database to retrieve and manipulate data.	Database query techniques include:	<pre>1. Executing SQL queries to select, insert, update, and delete data. 2. Using JOIN clauses to combine multiple tables. 3. Using WHERE clauses to filter data. 4. Using GROUP BY and HAVING clauses for aggregation.</pre>					
Session Hijacking	Session hijacking techniques involve intercepting a user's session and taking over their session.	Session hijacking techniques include:	<pre>1. Exploiting session fixation vulnerabilities to reuse session IDs. 2. Using session replay attacks to capture and reuse session data. 3. Exploiting session token predictable patterns.</pre>					
Denial of Service	Denial of service techniques involve causing the application to become unavailable to legitimate users.	Denial of service techniques include:	<pre>1. Overloading the application with too many requests. 2. Exploiting memory leaks or resource exhaustion. 3. Using distributed denial of service (DDoS) attacks.</pre>					
Man-in-the-Middle	Man-in-the-middle techniques involve intercepting communication between the user and the application.	Man-in-the-middle techniques include:	<pre>1. Intercepting SSL/TLS connections to steal sensitive data. 2. Exploiting network protocols like ARP to intercept traffic. 3. Using packet sniffing tools to capture data in transit.</pre>					
SQL Injection	SQL injection techniques involve injecting malicious SQL code into the application's database queries.	SQL injection techniques include:	<pre>1. Exploiting user input validation bypasses to inject SQL code. 2. Using union queries to extract data from other tables. 3. Exploiting stored procedures or functions to execute arbitrary SQL.</pre>					
XSS (Cross-Site Scripting)	XSS (Cross-Site Scripting) techniques involve injecting malicious scripts into the application's responses.	XSS (Cross-Site Scripting) techniques include:	<pre>1. Exploiting reflected XSS by injecting scripts into user inputs. 2. Exploiting stored XSS by injecting scripts into database responses. 3. Exploiting DOM-based XSS by manipulating the DOM tree.</pre>					
Cross-Site Request Forgery	Cross-Site Request Forgery (CSRF) techniques involve tricking a user into performing actions on behalf of another user.	Cross-Site Request Forgery (CSRF) techniques include:	<pre>1. Exploiting session fixation to reuse session tokens. 2. Exploiting clickjacking to trick users into clicking on forged links. 3. Exploiting header manipulation to bypass CSRF protection.</pre>					
Session Fixation	Session fixation techniques involve forcing a user to reuse a specific session ID.	Session fixation techniques include:	<pre>1. Exploiting session fixation to reuse session tokens. 2. Exploiting header manipulation to bypass session fixation detection.</pre>					
Clickjacking	Clickjacking techniques involve tricking a user into clicking on a link or button.	Clickjacking techniques include:	<pre>1. Exploiting clickjacking to trick users into clicking on forged links. 2. Exploiting header manipulation to bypass clickjacking detection.</pre>					
Header Manipulation	Header manipulation techniques involve modifying HTTP headers to bypass security measures.	Header manipulation techniques include:	<pre>1. Exploiting header manipulation to bypass session fixation detection. 2. Exploiting header manipulation to bypass clickjacking detection.</pre>					

Test Case ID	Description	Preconditions	Procedure	Postconditions	Notes	Owner	Review Status	Test Status	Last Run	Run Date
TC_001	Test Case 1: Basic Test	None	<pre> Given "I am on the homepage" When I click on the "About Us" link Then I should see the "About Us" page </pre>	After performing the steps, the "About Us" page is displayed.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_002	Test Case 2: User Authentication	None	<pre> Given "I am on the homepage" When I click on the "Log In" button Then I should be redirected to the login page </pre>	The user is successfully logged in and can access the dashboard.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_003	Test Case 3: Product Filtering	None	<pre> Given "I am on the homepage" When I click on the "Shop" link Then I should see the product listing And I should be able to filter products by category </pre>	The user successfully filters the products by category.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_004	Test Case 4: Add to Cart	None	<pre> Given "I am on the homepage" When I click on the "Shop" link Then I should see the product listing And I should be able to add products to the cart </pre>	The user successfully adds a product to the cart.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_005	Test Case 5: Checkout Process	None	<pre> Given "I am on the homepage" When I click on the "Shop" link Then I should see the product listing And I should be able to add products to the cart And I should be able to proceed to checkout </pre>	The user successfully completes the checkout process.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_006	Test Case 6: User Profile	None	<pre> Given "I am on the homepage" When I click on the "Profile" link Then I should see my user profile </pre>	The user successfully views their user profile.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_007	Test Case 7: Order History	None	<pre> Given "I am on the homepage" When I click on the "Profile" link Then I should see my user profile And I should be able to view my order history </pre>	The user successfully views their order history.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_008	Test Case 8: Product Details	None	<pre> Given "I am on the homepage" When I click on the "Shop" link Then I should see the product listing And I should be able to view product details </pre>	The user successfully views product details.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_009	Test Case 9: User Feedback	None	<pre> Given "I am on the homepage" When I click on the "Profile" link Then I should see my user profile And I should be able to leave feedback </pre>	The user successfully leaves feedback.			Pending Review	In Progress	2023-10-01	2023-10-01
TC_010	Test Case 10: Admin Panel	None	<pre> Given "I am on the homepage" When I click on the "Admin" link Then I should see the admin panel </pre>	The user successfully logs in to the admin panel.			Pending Review	In Progress	2023-10-01	2023-10-01