

Application: xaltsocnportal.web.app

(Manual Test cases)

1. Functional Testing

1.1 Sign Up

Test Case ID	Scenario	Steps	Expected Result
TC_SIGNUP_01	Valid Sign Up	Enter valid email and password, click Sign Up	User account is created and redirected to dashboard
TC_SIGNUP_02	Invalid Email	Enter "invalidemail", valid password, click Sign Up	Error: Invalid email format
TC_SIGNUP_03	Empty Password	Enter valid email, leave password blank, click Sign Up	Error: Password required
TC_SIGNUP_04	Weak Password	Enter valid email, weak password (e.g., "123"), click Sign Up	Error: Weak password (if validated)

1.2 Sign In

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_SIGNIN_01	Valid Sign In	Enter valid credentials	User is logged in and redirected to dashboard
TC_SIGNIN_02	Invalid Email	Enter invalid email, valid password	Error: Email not found
TC_SIGNIN_03	Wrong Password	Enter valid email, wrong password	Error: Invalid credentials

TC_SIGNIN_04	Empty Fields	Leave fields blank	Error messages for required fields
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1.3 Sign Out

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_SIGNOUT_01	Sign Out	After sign in, click on sign out	User is logged out and redirected to login page

1.4 Onboard Nodes to Blockchain

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_NODE_01	Valid Node + Wallet	Enter valid Node ID, IP, Wallet, and permissions	Request is submitted successfully
TC_NODE_02	Invalid Node ID	Enter "Node-1" instead of "NodeID-1"	Error: Invalid Node ID format
TC_NODE_03	Invalid IP	Enter IP as "999.999.999.999"	Error: Invalid IP format
TC_NODE_04	Duplicate Node	Enter same node twice	Error: Duplicate node
TC_NODE_05	Invalid Wallet Address	Enter "0x123"	Error: Invalid wallet format

1.5 Create New Private Blockchain

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_CHAIN_01	Valid Submission	Enter valid network, wallet, node	Request submitted successfully
TC_CHAIN_02	Invalid Wallet	Wallet = "abcd"	Error: Invalid wallet address
TC_CHAIN_03	Missing Fields	Skip network name	Error: Required field

2. UI/UX Testing

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_UI_01	Check button alignment	Visually inspect UI	All buttons aligned and clickable
TC_UI_02	Error Display	Trigger validation errors	Error messages are shown clearly

3. Boundary Testing

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_BOUND_01	NodeID-0	Add node with ID = NodeID-0	Accepted if format correct
TC_BOUND_02	NodeID-999999	Add high value ID	Accepted if format correct

4. Cross-Browser Testing

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_BROWSER_01	Chrome	Open app on Chrome	App works
TC_BROWSER_02	Firefox	Open app on Firefox	App works

6. Mobile Responsiveness Testing

Test Case ID	Test Case Name	Test Steps	Expected Result
TC_MOBILE_01	Android Device	Use mobile browser	App UI responsive