

24	IP Monitoring	IP Tracking, Alerts & Risk Analysis Screen [Admin]	<Screen: IP Monitoring><list = active-ip-addresses><display = login-attempts><display = suspicious-activity><button = block-ip><button = unblock-ip><display = block-status>	As a <b>security admin</b> , I should monitor IP addresses so that I should detect suspicious activities and protect the voting system from attacks.	~System must show all active user IPs. ~Suspicious IPs (multiple failed attempts, unusual patterns) must be highlighted. ~Admin must be able to block or unblock IPs. ~Blocked IPs must be denied system access immediately.	
25	Blockchain Audit View	View Audit Logs [Admin]	<screen><table><timestamp><user_id><action><block_hash></table><button = export></screen>	As an <i>admin</i> , I should view blockchain-based audit logs so I should monitor all system activities and ensure nothing has been altered.	--Audit logs should be displayed in a read-only table. --Each log entry should include timestamp, user, action, and hash. --Logs should come from the blockchain ledger. --Export button should allow PDF download. --Logs should support filtering (date, user, action).	
26	Live Vote Count	View Real-Time Votes [User/Admin/Election Commission]	<dashboard><live_total_votes><candidate_vote_table><live_graph></dashboard>	As an <i>observer</i> , I should see live vote counts so I should track election progress and verify that votes are being recorded correctly.	--Vote counts should refresh every 10 seconds. --Only aggregated counts should be shown. --Live graph should display updated trends. --Observer should not see individual voter identities. --The dashboard should remain responsive under heavy load.	
27	Result Publication	View Final Published Results [User/Admin/Election commission]	<screen><winner_section><results_table><total_percentage_graph></screen>	As a <i>user</i> , I should view the final published results so I should easily check which	--Final results should appear only after EC publishes. --Winner information	

				<i>candidate won the election.</i>	should be highlighted clearly. --Results table should show each candidate's total votes. --Publish timestamp should be visible. --No personal voter data should appear.	
28	Observer Dashboard	View Transparency Dashboard [Election commission]	<dashboard> <turnout_percentage> <voting_heatmap> <system_integrity_status> <live_activity_graph> </dashboard>	As an observer, I should have a transparent dashboard so I can analyze turnout, voting activity, and system integrity.	--Turnout percentage should update in real time. --Heatmap should show region-wise activity. --System integrity indicator should show "Secure / Warning / Critical". --Observer should not access voter identities. --Dashboard should refresh without page reload.	
29	Log Management	View System Activity Logs [Admin]	<table> <timestamp> <user_role> <activity> <ip_address> </table> <filters> <date> <role> <action> </filters>	As an admin, I should access system logs so I can review user actions and identify unusual behavior.	--Logs should be displayed in chronological order. --Logs should include IP address for each action. --Filtering should work by date, role, and activity. --Logs should update in real time. --Admin should not be able to delete or modify logs.	
30	Suspicious Activity Alerts	View Security Alerts [Election commission]	<alert_panel> <alert_message> <severity_level> <timestamp> <button = investigate> </alert_panel>	As a security officer, I should receive alerts about suspicious activities so I can quickly investigate.	--Alerts should generate automatically on suspicious behavior. --Each alert should show severity level.	

				potential threats.	--Investigate button should open detailed alert info. --Alerts should be visible to admin + security officer. --All alerts should be stored in logs.
31	Data Encryption	Encrypt User & Vote Data [Admin]	<process> <encrypt_user_data> <encrypt_vote_data> <hash_validation> </process>	As a stakeholder, I should all data to be encrypted so sensitive information stays protected throughout the system.	--All user data should be encrypted. --All votes should be encrypted before storage. --Hash values should verify data integrity. --No plaintext sensitive data should exist. --Encryption keys should be securely managed.
32	Backup & Recovery	Manage Backup & Restore [Admin]	<screen> <backup_timestamp> <button = run_backup> <button = restore_backup> </screen>	As an admin, I should reliable backup and restore options so I should recover the system in case of failure or data loss.	-Backups <b>should</b> run automatically on schedule.- Admin <b>should</b> be able to trigger manual backups.- Restore option <b>should</b> require admin authentication.- Backup timestamp <b>should</b> display last backup time.- Recovery <b>should</b> not break encrypted data.
33	Server Health Monitor	Monitor Server Health & Status [Admin]	<dashboard> <cpu_usage_graph> <memory_usage_graph> <network_status> <uptime_display> <error_log> </dashboard>	As an admin, I should monitor server health so I should ensure the system remains stable and available during voting.	-Server stats <b>should</b> update every 5 seconds.- High CPU/RAM usage <b>should</b> trigger warnings.- Uptime display <b>should</b> show days/hours.- Error logs <b>should</b> list recent server issues.- System status indicator