

Test Cases - Uploaded File: axis hr whatsapp bot - feature list.xlsx

User Story 1

As an employee, I want to authenticate myself using an OTP sent to my official email, so that I can securely access HR-related information via WhatsApp.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** AUTH-001 ****Description:**** Verify successful authentication using OTP sent to official email. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. 2. OTP is sent to the user's official email address. 3. User enters the OTP received in the email on WhatsApp. ****Expected Results:**** User is successfully authenticated and granted access to HR-related information. ****Priority:**** High ****Validation Test Cases:**** ****Test Case ID:**** AUTH-002 ****Description:**** Verify authentication failure with incorrect OTP. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. 2. OTP is sent to the user's official email address. 3. User enters an incorrect OTP on WhatsApp. ****Expected Results:**** Authentication fails, and user is not granted access to HR-related information. ****Priority:**** High ****UI/UX Test Cases:**** ****Test Case ID:**** AUTH-003 ****Description:**** Verify the OTP input field is clearly visible and accessible on the WhatsApp interface. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. ****Expected Results:**** The OTP input field is prominently displayed on the WhatsApp interface for easy access. ****Priority:**** Medium ****Performance Test Cases:**** ****Test Case ID:**** AUTH-004 ****Description:**** Verify OTP delivery time to official email is within acceptable limits. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. ****Expected Results:**** OTP is delivered to the official email within a reasonable time frame (e.g., under 30 seconds). ****Priority:**** Medium ****Security Test Cases:**** ****Test Case ID:**** AUTH-005 ****Description:**** Verify OTP is valid only for a limited time. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. 2. OTP is sent to the user's official email address. 3. User waits for the OTP validity period to expire before entering it on WhatsApp. ****Expected Results:**** OTP expires after a certain time period and cannot be used for authentication. ****Priority:**** High ****Combination Test Cases:**** ****Test Case ID:**** AUTH-006 ****Description:**** Verify authentication with correct OTP after multiple failed attempts. ****Preconditions:**** User has valid official email registered. ****Steps:**** 1. User requests OTP for authentication via WhatsApp. 2. User enters incorrect OTP multiple times. 3. User enters the correct OTP. ****Expected Results:**** User is successfully authenticated after entering the correct OTP despite previous failed attempts. ****Priority:**** High

User Story 2

As an employee, I want to navigate through menu-based selection system in WhatsApp, so that I can easily find answers to HR-related queries without typing free-text inputs.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** 001 ****Description:**** Navigate through menu options to find HR-related queries. ****Preconditions:**** Employee is logged in to WhatsApp and has access to the HR menu. ****Steps:**** 1. Open WhatsApp and navigate to the HR menu. 2. Select desired menu option (e.g., Leave Policies, Payroll, Benefits). ****Expected Results:**** Employee is able to easily find HR-related information without typing free-text inputs. ****Priority:**** High ****Validation (Negative/Edge Case) Test Cases:**** ****Test Case ID:**** 002 ****Description:**** Selecting an invalid menu option. ****Preconditions:**** Employee is logged in to WhatsApp and has access to the HR menu. ****Steps:**** 1. Open WhatsApp and navigate to the HR menu. 2. Select an invalid menu option. ****Expected Results:**** Employee receives an error message indicating that the menu option is invalid. ****Priority:**** Medium ****UI/UX Test Cases:**** ****Test Case ID:**** 003 ****Description:**** Check the visibility and accessibility of the menu options. ****Preconditions:**** Employee is logged in to WhatsApp and has access to the HR menu. ****Steps:**** 1. Open WhatsApp and navigate to the HR menu. 2. Check if all menu options are clearly visible and easily accessible. ****Expected Results:**** All menu options are clearly visible and easily accessible for the employee. ****Priority:**** High ****Performance Test Cases:**** ****Test Case ID:**** 004 ****Description:**** Test the response time when navigating through menu options. ****Preconditions:**** Employee is logged in to WhatsApp and has access to the HR menu. ****Steps:**** 1. Open WhatsApp and navigate to the HR menu. 2. Select a menu option and check the response time for loading information. ****Expected Results:**** The response time for loading information is within acceptable limits. ****Priority:**** Medium ****Security Test Cases:**** ****Test Case ID:**** 005 ****Description:**** Check for unauthorized access to HR menu options. ****Preconditions:**** Employee is logged in to WhatsApp. ****Steps:**** 1. Try to access the HR menu without proper authorization. ****Expected Results:**** Employee is unable to access the HR menu without proper authorization. ****Priority:**** High ****Combination Test Cases:**** ****Test Case ID:**** 006 ****Description:**** Navigate through menu options and select multiple HR-related queries. ****Preconditions:**** Employee is logged in to WhatsApp and has access to the HR menu. ****Steps:**** 1. Open WhatsApp and navigate to the HR menu. 2. Select multiple menu options (e.g., Leave Policies, Payroll, Benefits). ****Expected Results:**** Employee is able to easily find information on multiple HR-related queries without typing free-text inputs. ****Priority:**** High

User Story 3

As a vendor (Focaloid), I want to add predefined HR-related queries and options provided by Axis, so that the employees can navigate through structured menu selections in the WhatsApp bot.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****1. Test Case ID:**** POS_TC_001 ****Description:**** Verify that Focaloid vendor can successfully add predefined HR-related queries and options provided by Axis. ****Preconditions:**** Focaloid vendor is logged into the system. ****Steps:**** 1. Navigate to the settings section of the WhatsApp bot. 2. Select the option to add predefined HR-related queries and options. 3. Add the queries and options provided by Axis. ****Expected Results:**** The predefined HR-related queries and

displayed. ****Steps:**** 1. Check the layout and design of the login page. 2. Verify if the login button is prominently displayed. 3. Check for any error messages or notifications displayed to the user. ****Expected Result:**** The login interface should be user-friendly and easy to use. ****Priority:**** Medium

Performance Test Cases: ****Test Case ID:**** 004 ****Description:**** Test the response time of the bot when validating employee credentials. ****Preconditions:**** Employee credentials are valid and stored in the backend database. ****Steps:**** 1. Measure the time taken by the bot to authenticate an employee with valid credentials. ****Expected Result:**** The bot should authenticate employees within an acceptable time frame. ****Priority:**** Medium

Security Test Cases: ****Test Case ID:**** 005 ****Description:**** Verify that the bot securely transmits employee credentials for validation. ****Preconditions:**** Employee credentials are valid and stored in the backend database. ****Steps:**** 1. Monitor the network traffic to check how the credentials are transmitted. ****Expected Result:**** Employee credentials should be securely transmitted to ensure data privacy and security. ****Priority:**** High

Combination Test Cases: ****Test Case ID:**** 006 ****Description:**** Verify the behavior of the bot when both valid and invalid credentials are entered. ****Preconditions:**** Employee credentials are stored in the backend database. ****Steps:**** 1. Enter valid employee credentials and click login. 2. Enter invalid employee credentials and click login. 3. Verify the bot's response in each scenario. ****Expected Result:**** The bot should authenticate the user with valid credentials and display an error message for invalid credentials. ****Priority:**** High

User Story 5

As a system administrator, I want to ensure the bot follows compliance regulations, so that employee data is secure.

Test Cases:

Test Case 1:

Positive Test Cases: ****Test Case ID:**** Compliance_Bot_Positive_01 ****Description:**** Verify that the bot follows compliance regulations for employee data security. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Input employee data into the system. 2. Trigger the compliance bot to check the data. 3. Verify that the bot flags any non-compliant data. ****Expected Results:**** The compliance bot correctly identifies non-compliant data and provides alerts. **### Validation Test Cases:** ****Test Case ID:**** Compliance_Bot_Validation_01 ****Description:**** Verify that the bot does not allow non-administrative users to bypass compliance checks. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Non-administrative user attempts to input employee data into the system. 2. Trigger the compliance bot to check the data. 3. Verify that the bot correctly restricts the user from entering non-compliant data. ****Expected Results:**** The non-administrative user is restricted from entering non-compliant data. **### UI/UX Test Cases:** ****Test Case ID:**** Compliance_Bot_UIUX_01 ****Description:**** Verify that the compliance bot provides clear and user-friendly alerts for non-compliant data. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Input employee data into the system. 2. Trigger the compliance bot to check the data. 3. Validate the alert message displayed by the bot. ****Expected Results:**** The alert message is clear, concise, and easily understandable to users. **### Performance Test Cases:** ****Test Case ID:**** Compliance_Bot_Performance_01 ****Description:**** Verify the performance of the compliance bot under high data input loads. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Input a large volume of employee data into the system. 2. Trigger the compliance bot to check the data. 3. Measure the time taken by the bot to process and flag non-compliant data. ****Expected Results:**** The compliance bot processes large volumes of data within acceptable time

limits. ### Security Test Cases: ****Test Case ID:**** Compliance_Bot_Security_01 ****Description:**** Verify that the compliance bot does not store employee data in an insecure manner. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Input employee data into the system. 2. Trigger the compliance bot to check the data. 3. Ensure that the bot does not store the data in logs or any insecure locations. ****Expected Results:**** The compliance bot does not retain or store employee data insecurely. ### Combination Test Cases: ****Test Case ID:**** Compliance_Bot_Combination_01 ****Description:**** Verify the interaction of the compliance bot with other system modules. ****Preconditions:**** Compliance regulations are defined and configured in the system. ****Steps:**** 1. Input employee data into the system. 2. Trigger the compliance bot to check the data. 3. Ensure that other system modules (e.g., user management, data storage) interact correctly with the compliance bot. ****Expected Results:**** The compliance bot seamlessly integrates with other system modules without any conflicts.

User Story 6

As an Vendor (Focaloid), I want the bot to support multiple employees simultaneously, so that all users receive timely responses.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_001 ****Description:**** Verify if the bot can support multiple employees simultaneously. ****Preconditions:**** Multiple employees accessing the bot simultaneously. ****Steps:**** 1. Multiple employees initiate conversations with the bot. 2. Employees ask questions or seek assistance. 3. Ensure the bot can handle queries from all employees concurrently. ****Expected Results:**** The bot should be able to handle and respond to queries from all employees simultaneously. ****Priority:**** High ****Validation (Negative/Edge Case) Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_002 ****Description:**** Verify the maximum limit of employees the bot can support simultaneously. ****Preconditions:**** Multiple employees exceeding the maximum limit accessing the bot. ****Steps:**** 1. Exceed the maximum limit of employees initiating conversations with the bot. 2. Employees ask questions or seek assistance. ****Expected Results:**** The bot should not crash and should handle queries up to the set maximum limit, providing responses to employees within the limit. ****Priority:**** Medium ****UI/UX Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_003 ****Description:**** Check the user interface when multiple employees are interacting with the bot simultaneously. ****Preconditions:**** Multiple employees interacting with the bot. ****Steps:**** 1. Multiple employees initiate conversations with the bot. 2. Observe the user interface for any lag or overlapping messages. ****Expected Results:**** The user interface should smoothly display messages from multiple employees without any overlap or confusion. ****Priority:**** Medium ****Performance Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_004 ****Description:**** Test the response time of the bot when handling queries from multiple employees. ****Preconditions:**** Multiple employees interacting with the bot. ****Steps:**** 1. Multiple employees initiate conversations with the bot. 2. Measure the response time of the bot for each query. ****Expected Results:**** The bot should respond promptly to queries from all employees, maintaining a consistent response time. ****Priority:**** High ****Security Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_005 ****Description:**** Check for data privacy and security when multiple employees interact with the bot. ****Preconditions:**** Multiple employees interacting with the bot. ****Steps:**** 1. Multiple employees share sensitive information or personal data with the bot. 2. Ensure data encryption and secure handling of information. ****Expected Results:**** The bot should securely handle and protect sensitive information shared by employees, ensuring data privacy and security. ****Priority:**** High ****Combination Test Cases:**** ****Test Case ID:**** BOT_EMPLOYEE_MULTI_006

****Description:**** Test the bot's performance, UI/UX, and security when supporting multiple employees simultaneously. ****Preconditions:**** Multiple employees accessing the bot. ****Steps:**** 1. Multiple employees initiate conversations with the bot. 2. Measure response time, observe UI for any issues, and check data security during interactions. ****Expected Results:**** The bot should perform well in terms of response time, maintain a smooth UI/UX, and ensure data security when handling queries from multiple employees concurrently. ****Priority:**** High

User Story 7

As a vendor (Focaloid), I want the bot to have a scalable architecture, so that future integrations (like live chat and third-party API connections) are possible.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** 01 ****Description:**** Verify if the bot architecture can be easily scaled up to accommodate new integrations. ****Preconditions:**** Bot architecture in place. ****Steps:**** 1. Integrate a new live chat feature into the bot. 2. Connect the bot to a third-party API. ****Expected Results:**** New integrations are successfully added without impacting the existing functionality. ****Priority:**** High ****Validation Test Cases:**** ****Test Case ID:**** 02 ****Description:**** Attempt to integrate a new feature without making any changes to the existing architecture. ****Preconditions:**** Bot architecture in place. ****Steps:**** 1. Try to add a live chat feature without modifying the existing setup. 2. Connect to a third-party API without any architecture changes. ****Expected Results:**** New integrations cannot be added due to scalability issues. ****Priority:**** Medium ****UI/UX Test Cases:**** ****Test Case ID:**** 03 ****Description:**** Verify if the UI can handle additional features without becoming cluttered. ****Preconditions:**** Bot architecture in place. ****Steps:**** 1. Add a live chat button to the existing bot interface. 2. Ensure the third-party API connection does not disrupt the user experience. ****Expected Results:**** UI remains clean and user-friendly even with new integrations. ****Priority:**** Medium ****Performance Test Cases:**** ****Test Case ID:**** 04 ****Description:**** Test the performance of the bot with multiple integrations running simultaneously. ****Preconditions:**** Bot architecture in place with multiple integrations. ****Steps:**** 1. Simulate high traffic with live chat and third-party API requests. 2. Monitor response times and system resource utilization. ****Expected Results:**** Bot maintains optimal performance under heavy load. ****Priority:**** High ****Security Test Cases:**** ****Test Case ID:**** 05 ****Description:**** Ensure that new integrations do not compromise the security of the bot. ****Preconditions:**** Bot architecture in place with new integrations. ****Steps:**** 1. Conduct security testing on the live chat feature. 2. Validate the data exchange with the third-party API is secure. ****Expected Results:**** Integrations do not introduce vulnerabilities to the bot. ****Priority:**** High ****Combination Test Cases:**** ****Test Case ID:**** 06 ****Description:**** Test the scalability, performance, and security aspects together. ****Preconditions:**** Bot architecture in place with new integrations. ****Steps:**** 1. Add multiple live chat instances while testing the bot's performance under heavy load. 2. Conduct security testing on all integrated features simultaneously. ****Expected Results:**** Bot scales seamlessly, performs well under stress, and maintains security standards. ****Priority:**** High

User Story 8

As a vendor (Focaloid), I want to set up the server for hosting the application, so that the application is securely deployed, scalable, and accessible to end-users.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_001 ****Description:**** Verify successful server setup by Focaloid. ****Preconditions:**** Focaloid has all necessary server resources. ****Steps:**** 1. Focaloid configures server settings. 2. Focaloid deploys application on the server. 3. Focaloid tests application accessibility. ****Expected Result:**** Application is successfully deployed and accessible. ****Priority:**** High ****Validation Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_002 ****Description:**** Verify server setup failure due to insufficient resources. ****Preconditions:**** Focaloid lacks required server resources. ****Steps:**** 1. Focaloid attempts to configure server settings. ****Expected Result:**** Server setup fails due to insufficient resources. ****Priority:**** Medium ****UI/UX Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_003 ****Description:**** Verify user-friendly interface for server setup. ****Preconditions:**** Focaloid accesses server setup interface. ****Steps:**** 1. Focaloid navigates through server setup options. ****Expected Result:**** Interface is intuitive and easy to use. ****Priority:**** Medium ****Performance Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_004 ****Description:**** Verify server setup performance under load. ****Preconditions:**** Multiple applications being deployed simultaneously. ****Steps:**** 1. Focaloid sets up server for hosting multiple applications. 2. Simulate heavy traffic to the server. ****Expected Result:**** Server can handle the load without performance degradation. ****Priority:**** High ****Security Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_005 ****Description:**** Verify server setup security measures. ****Preconditions:**** Server contains sensitive user data. ****Steps:**** 1. Focaloid implements security protocols during setup. 2. Conduct security testing to identify vulnerabilities. ****Expected Result:**** Server is secure from potential threats. ****Priority:**** High ****Combination Test Cases:**** ****Test Case ID:**** VENDOR_SERVER_SETUP_006 ****Description:**** Verify server setup with different deployment scenarios. ****Preconditions:**** Various deployment configurations. ****Steps:**** 1. Focaloid deploys applications with different server configurations. ****Expected Result:**** Applications are successfully deployed with varied setups. ****Priority:**** High

User Story 9

As a vendor (Focaloid), I want to set up a new database that is identical to the one used for investor or distributor services, so that we can reuse it for the HR bot.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:**** 001 ****Description:**** Verify that the vendor can access the database setup functionality. ****Preconditions:**** The vendor is logged into the system. ****Steps:**** 1. Navigate to the database setup section. 2. Select the option to set up a new database. 3. Proceed with the database setup process. ****Expected Results:**** The vendor should be able to access the database setup functionality without any errors. ****Priority:**** High ****Test Case ID:**** 002 ****Description:**** Verify that the new database setup process is completed successfully. ****Preconditions:**** The vendor has initiated the database setup process. ****Steps:**** 1. Fill in the required details for the new database. 2. Confirm the database setup. ****Expected Results:**** The new database should be set up successfully

and ready for use. **Priority:** High **Validation Test Cases:** **Test Case ID:** 003 **Description:** Verify that an error message is displayed if the vendor does not have the necessary permissions to set up a new database. **Preconditions:** The vendor does not have the required permissions. **Steps:** 1. Attempt to access the database setup section. **Expected Results:** An error message should be displayed indicating that the vendor does not have the necessary permissions to set up a new database. **Priority:** Medium **UI/UX Test Cases:** **Test Case ID:** 004 **Description:** Verify that the database setup interface is user-friendly and intuitive. **Preconditions:** The vendor is in the database setup section. **Steps:** 1. Navigate through the database setup process. **Expected Results:** The database setup interface should be easy to understand and navigate, with clear instructions provided at each step. **Priority:** Medium **Performance Test Cases:** **Test Case ID:** 005 **Description:** Test the time taken to set up the new database. **Preconditions:** The vendor has initiated the database setup process. **Steps:** 1. Measure the time taken to complete the database setup process. **Expected Results:** The database setup process should be completed within a reasonable time frame. **Priority:** Medium **Security Test Cases:** **Test Case ID:** 006 **Description:** Verify that the database setup process is secure and data is encrypted. **Preconditions:** The vendor is setting up a new database. **Steps:** 1. Monitor the data transmission during the setup process. **Expected Results:** The database setup process should use encryption to secure the data being transmitted. **Priority:** High **Combination Test Cases:** **Test Case ID:** 007 **Description:** Verify that the vendor can set up a new database for the HR bot using existing templates. **Preconditions:** The vendor has access to database templates. **Steps:** 1. Select the template for the HR bot database. 2. Proceed with the database setup process. **Expected Results:** The new database for the HR bot should be set up successfully using the selected template. **Priority:** High

User Story 10

As a vendor (Focaloid), I want to authenticate Axis admin users to the backend admin panel, so that can manage and edit menus and messages on the admin panel.

Test Cases:

Test Case 1:

Positive Test Cases: **Test Case ID:** AUTH001 **Description:** Verify that a valid Axis admin user can successfully authenticate to the backend admin panel. **Preconditions:** Axis admin user credentials are valid. **Steps:** 1. Enter valid Axis admin username. 2. Enter valid Axis admin password. 3. Click on the login button. **Expected Results:** User should be logged in successfully and directed to the admin panel. **Priority:** High **Validation (Negative/Edge Case) Test Cases:** **Test Case ID:** AUTH002 **Description:** Verify that an invalid Axis admin user cannot authenticate to the backend admin panel. **Preconditions:** Axis admin user credentials are invalid. **Steps:** 1. Enter invalid Axis admin username. 2. Enter invalid Axis admin password. 3. Click on the login button. **Expected Results:** User should see an error message indicating invalid credentials and not be logged in. **Priority:** High **UI/UX Test Cases:** **Test Case ID:** AUTH003 **Description:** Verify that the login form elements are displayed correctly on the UI. **Preconditions:** User is on the login page. **Steps:** 1. Check that the username field is present. 2. Check that the password field is present. 3. Check that the login button is present. **Expected Results:** All UI elements are displayed correctly and aligned properly. **Priority:** Medium **Performance Test Cases:** **Test Case ID:** AUTH004 **Description:** Simulate concurrent login attempts by multiple Axis admin users. **Preconditions:** System is under normal load. **Steps:** 1. Have multiple Axis admin users simultaneously attempt to login. **Expected Results:** System should be able to handle concurrent

login attempts without crashing or slowing down significantly. ****Priority:** Medium** ****Security Test Cases:**** ****1.**** ****Test Case ID:** AUTH005** ****Description:**** Verify that password field is masked for security. ****Preconditions:**** User is on the login page. ****Steps:**** 1. Enter a valid password. ****Expected Results:**** Password should be displayed as masked characters to prevent unauthorized access. ****Priority:** High** ****Combination Test Cases:**** ****1.**** ****Test Case ID:** AUTH006** ****Description:**** Verify that a valid Axis admin user with incorrect password cannot authenticate. ****Preconditions:**** Axis admin username is valid but password is incorrect. ****Steps:**** 1. Enter valid Axis admin username. 2. Enter incorrect Axis admin password. 3. Click on the login button. ****Expected Results:**** User should see an error message indicating invalid credentials and not be logged in. ****Priority:** High**

User Story 11

As a vendor (Focaloid), I want to clone the existing investor services codebase, so that I can make the necessary minor modifications for the HR Bot project.

Test Cases:

Test Case 1:

****Positive Test Cases:**** ****Test Case ID:** 001** ****Description:**** Verify that the vendor can successfully clone the existing investor services codebase. ****Preconditions:**** Vendor has access to the existing investor services codebase. ****Steps:**** 1. Log in to the version control system. 2. Locate the existing investor services codebase. 3. Clone the codebase to a new repository. ****Expected Results:**** The codebase is successfully cloned to a new repository. ****Priority:** High** ****Validation (Negative/Edge Case) Test Cases:**** ****Test Case ID:** 002** ****Description:**** Verify that the vendor cannot clone the codebase without proper access permissions. ****Preconditions:**** Vendor does not have access to the existing investor services codebase. ****Steps:**** 1. Attempt to clone the codebase to a new repository. ****Expected Results:**** Access denied error message is displayed. ****Priority:** High** ****UI/UX Test Cases:**** ****Test Case ID:** 003** ****Description:**** Verify that the user interface provides clear instructions on how to clone the codebase. ****Preconditions:**** Vendor is on the codebase cloning page. ****Steps:**** 1. Look for instructions on how to clone the codebase. ****Expected Results:**** Clear and concise instructions are provided on how to clone the codebase. ****Priority:** Medium** ****Performance Test Cases:**** ****Test Case ID:** 004** ****Description:**** Verify that the cloning process does not take an unreasonable amount of time. ****Preconditions:**** Vendor is cloning the codebase. ****Steps:**** 1. Clone the codebase to a new repository. ****Expected Results:**** The cloning process completes within a reasonable timeframe. ****Priority:** Medium** ****Security Test Cases:**** ****Test Case ID:** 005** ****Description:**** Verify that only authorized vendors can clone the codebase. ****Preconditions:**** Vendor is attempting to clone the codebase. ****Steps:**** 1. Ensure that only authorized vendors can access and clone the codebase. ****Expected Results:**** Unauthorized vendors are blocked from cloning the codebase. ****Priority:** High** ****Combination Test Cases:**** ****Test Case ID:** 006** ****Description:**** Verify that the vendor can successfully clone the codebase with proper access permissions and within a reasonable timeframe. ****Preconditions:**** Vendor has access to the existing investor services codebase. ****Steps:**** 1. Log in to the version control system. 2. Locate the existing investor services codebase. 3. Clone the codebase to a new repository. ****Expected Results:**** The codebase is successfully cloned to a new repository within a reasonable timeframe. ****Priority:** High**