Uptrillion Regression Test Template

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Version	Updated by	Date	Notes
V.1.00.00	Yao Ma	03/05/2025	1. Create Test Plan. 2. Create Test Cases for "Analytics" and "Inventory" modules.

1. App Version and Release Information

Field	Details
Application Name	Uptrillion
Version	v_x.xx.xx
Release Date	xx/xx/2025
Test Execution Date	03/01/2025 - 03/10/2025
Browser	Edge, Chrome
Operating System	Windows10
Environment	QA
Account	Admin

2. Bug Summary

(The links to the bug tickets will be attached below. The following are just samples.)

1. BUG-001 - [QA Admin] “Back” Button in “Item - Edit” page Should Navigate to the Last Visited Page
2. BUG-002 - [QA Admin] Add 'Clear' Button Next to 'Search' in Inventory - Item Page

3. Objective

The objective of this test plan is to define the testing approach for the Uptrillion Web Portal, focusing on the Analysis and Inventory modules. The goal is to ensure these modules meet functional, usability, security, compatibility, and internationalization requirements. The primary objectives are:

- Functional Testing: Verify that core features, such as data visualization in Analysis and item management in Inventory, function as expected.
- Usability Testing: Ensure the user interface is intuitive and user-friendly.
- Compatibility Testing: Ensure consistency across devices (mobile, tablet, desktop) and browsers (Chrome, Firefox, Safari).
- Integration Testing: Verify that operations performed in the mobile app correctly reflect in the web portal, ensuring data consistency across platforms.
- Internationalization and Localization Testing: Verify the application's adaptability to different languages, regions, and cultural conventions, ensuring proper translations, date formats, currency, and layout adjustment.

4. Scope

This test plan focuses on the public-facing functionalities of the Analytics and Inventory modules of the Uptrillion Web Portal. The scope includes:

Modules: Analytics (data and charts) and Inventory (searching and editing items).

Test Types:

- Functional Testing: Verifying key features.
- Usability Testing: Assessing user interface and experience.
- Integration Testing: Ensuring mobile app actions sync with the web portal.
- Compatibility Testing: Ensuring the modules function across multiple devices and browsers.
- Internationalization and Localization Testing: Ensuring the system works across different languages, regions, and cultural norms.

Exclusions: Due to non-disclosure constraints and time limitations for this presentation, the regression testing demonstration is limited to Pax's publicly available Analytics and Inventory pages. The core regression testing methodology remains unchanged, and the test design principles apply consistently across all modules.

5. Test Strategy

5.1. Test Types

1. **Functional Testing**: Manual testing to verify that all features within the Analysis and Inventory modules are working as intended, with attention to user interactions, data displays, and navigation.
2. **Usability Testing**: Evaluation of the interface for ease of navigation and intuitive design, ensuring users can interact with the system effectively.
3. **Integration Testing**: Verify that operations performed in the mobile app correctly reflect in the web portal, ensuring data consistency across platforms.
4. **Compatibility Testing**: Testing on various browsers (Chrome, Firefox, Safari) and devices (mobile, tablet, desktop) to ensure consistent functionality and user experience.
5. **Internationalization and Localization Testing**: Ensuring the system works across different languages, regions, and cultural norms.

5.1. Test Approach

1. **Test Planning**: Outline detailed test cases based on the requirements of the Analysis and Inventory modules, focusing on high-priority scenarios.
2. **Test Case Design**: Develop detailed test cases, including expected results and test data, covering functional, usability, security, and performance aspects.
3. **Manual and Automated Testing**: Perform manual testing for functional and usability aspects, and automated testing for performance and repetitive scenarios.
4. **Test Execution**: Conduct tests in a staging environment that replicates the production environment.
5. **Regression Testing**: Re-test after bug fixes or updates to ensure no new issues have been introduced.

6. **Bug Reporting and Tracking**: Log defects in the issue tracking system (e.g., GitHub) and ensure prompt resolution.
7. **Test Reporting**: Generate test reports to document results, including passed/failed test cases, defects, and recommended actions.

6. Test Cases

Note: In this regression test plan, all test cases are required to be executed without prioritization. Bug priority is defined in a separate metrics document to ensure better clarity and tracking of issue severity.

6.1. Analytics

<table>
<tr><td colspan="5">Precondition:
1. User is logged in.
2. Navigate to the “Home” page.</td></tr>
<tr><th>Test Case ID</th><th>Scenario</th><th>Steps</th><th>Expected Result</th><th>Test Result</th></tr>
<tr><td>TC-001</td><td>Logout icon behavior</td><td>1. Click the logout icon .
2. Click "Cancel" on the confirmation prompt.
3. Click "Yes" on the confirmation prompt.</td><td>1. A confirmation prompt appears with the message: “Are you sure you want to log out?”
2. The prompt disappears, and the user remains logged in, staying on the current page.
3. The prompt disappears, and the user is successfully logged out, redirected to the login page.</td><td></td></tr>
<tr><td>TC-002</td><td>Last login time - Verify Last Login Time</td><td>1. Login and record the login time.
2. Log out.
3.Log in again with the same account.
4. Check the “Last Login Time” displayed on the top right corner of the page.</td><td>1. Login successfully and the Login Time is recorded.
2. User is logged out successfully.
3. User successfully logs in again.
4. The “Last Login Time” is accurately displayed, matching the time recorded from the first login session.</td><td></td></tr>
<tr><td>TC-003</td><td>Last login time -</td><td>1. Change the system time</td><td>1. The displayed last login time</td><td></td></tr>
</table>

	Verify Different Time Zones	zone to a different location, e.g., London, and repeat TC-002. 2. Change the system time zone to another different location, e.g., Beijing, and repeat TC-002.	should be correctly shown in London time. 2. The displayed last login time should be correctly shown in Beijing time.	
TC-004	**Admin drop-down menu functionality**	1. Click “Admin”. 2. Hover over or click the items in the drop-down menu. 3. Close the drop-down menu by clicking anywhere outside the menu or selecting an option.	1. A drop-down menu is displayed, containing options such as Profile, Settings, and any other relevant admin options. 2. Each item is clickable and navigates to the appropriate page or section when selected. 3. The drop-down menu disappears as expected, returning the user to the main screen.	
TC-005	**Sidebar Controller**	1. Ensure the sidebar is visible. 2. Click ≡ Home button on the left corner of the main page. 3. Click ≡ Home button again to toggle the state back.	1. If the sidebar is expanded, clicking "Home" should collapse it. 2. If the sidebar is collapsed, clicking "Home" should expand it. 3. The transition should be smooth, without glitches or delays. 4. No visual distortions or layout breaking should occur.	
TC-006	**Reseller Card**	1. Check the count of Resellers displayed. 2. Add/Remove Reseller Account. 3. Click "More Info" on the Reseller card.	1. The count of Resellers on the page matches the expected number from the database. 2. The Reseller count updates correctly based on the addition or removal of accounts. 3. User is successfully redirected	

			to the Reseller page.	
TC-007	**Merchant Card**	1. Check the count of Merchant displayed. 2. Add/Remove Reseller Account. 3. Click "More Info" on the Merchant card.	1. The count of Merchant on the page matches the expected number from the database. 2. The Merchant count updates correctly based on the addition or removal of accounts. 3. User is successfully redirected to the Merchant page.	
TC-008	**Terminal Card**	1. Check the count of Terminal displayed. 2. Add/Remove Reseller Account. 3. Click "More Info" on the Terminal card.	1. The count of Terminal on the page matches the expected number from the database. 2. The Terminal count updates correctly based on the addition or removal of accounts. 3. User is successfully redirected to the Terminal page.	
TC-009	**TrxLog Card**	1. Check the count of TrxLog displayed. 2. Complete a new transaction on mobile app. 3. Click "More Info" on the TrxLog card.	1. The count of TrxLog on the page matches the expected number from the database. 2. The TrxLog count added correctly based on the addition of transaction. 3. User is successfully redirected to the TrxLog page.	
TC-010	**User Card**	1. Check the count of User displayed. 2. Add/Remove User Account. 3. Click "More Info" on the User card.	1. The count of User on the page matches the expected number from the database. 2. The User count updates correctly based on the addition or removal of accounts. 3. User is successfully redirected to the User page.	
TC-011	**Chart Analysis -** Verify Data	1. Compare the data displayed on the Transaction and Refund	1. The data on the Transaction and Refund charts accurately	

	Consistency	charts with the corresponding data in the database.	reflects the data stored in the database, showing the correct transaction details.	
TC-012	**Chart Analysis -** Transaction	1. Hover the mouse over a data point on the chart to check if the transaction value is displayed. 2. Click the "Week" button to filter the chart by weekly data. 3. Click the "Month" button to filter the chart by monthly data. 4. Click the "Year" button to filter the chart by yearly data.	1. Data points are highlighted, and the transaction value is displayed. 2. The chart updates to display weekly data. 3. The chart updates to display monthly data. 4. The chart updates to display yearly data.	
TC-013	**Chart Analysis -** Refund	1. Hover the mouse over a line or data point in the chart to highlight the data. 2. Click the "Week" button to view data for the current week. 3. Click the "Month" button to view data for the current month. 4. Click the "Year" button to view data for the current year.	1. Data points are highlighted, and the refund value is displayed. 2. The chart updates to display weekly data. 3. The chart updates to display monthly data. 4. The chart updates to display yearly data.	
TC-014	**Chart Analysis -** Verify Data Integration	1. Complete a new transaction on the mobile app and verify that the chart updates accordingly. 2. Complete a refund transaction on the mobile app and verify that the chart updates correctly to reflect the change.	1. The transaction chart reflects the added transaction data immediately after the transaction is completed on the mobile app. 2. The transaction chart reflects the correct decrease in transaction data after a refund is completed on the mobile app. The refund chart reflects the correct increase in transaction data after a refund is completed on the mobile app.	
TC-015	**Verify page**	1. Open the page in different	1. The page displays correctly	

	displays correctly across different platforms	browsers (e.g., Edge, Chrome, Firefox, Safari) and verify that the page displays correctly and all features are functional. 2. Open the page on different operating systems (e.g., macOS, Windows) and verify that the page displays correctly and all features are functional.	and functions as expected in each browser. 2. The page displays correctly and functions as expected on each operating system.	

6.2. Inventory

Precondition:
1. User is logged in.
2. Navigate to the "Inventory - Items" page.

Test Case ID	Scenario	Steps	Expected Result	Test Result
TC-001	**Search -** Name Field.	1. Input an existing full name in the search field and click "Search". 2. Input a partial existing name in the search field and click "Search". 3. Input a non-existing name in the search field and click "Search". 4. Leave the name field empty and click "Search".	1. System returns the matching results and displays the relevant item(s). 2. System returns the matching results and displays the relevant item(s) that partially match the input. 3. System shows no results 4. System returns all available items with no "Name" restriction applied.	
TC-002	**Search -** Category Field.	1. Select a specific category from the category field and click "Search". 2. Leave the category field set to "ALL" and click "Search".	1. System returns the matching results and displays the relevant item(s). 2. System returns all available items with no "Category" restriction applied.	
TC-003	**Search -**	1. Select a specific Is	1. System returns the matching results	

	Is Modifier Field.	Modifier from the Is Modifier field and click “Search”. 2. Leave the Is Modifier field set to “ALL” and click “Search”.	and displays the relevant item(s). 2. System returns all available items with no “Is Modifier” restriction applied.	
TC-004	**Search -** Stock Quantity Field.	1. Input a value in the left field, leaving the right field empty. 2. Input a value in the right field, leaving the left field empty. 3. Input values in both left and right fields, ensuring left ≤ right. 4. Input values in both left and right fields, ensuring left > right. 5. Input special characters or invalid data in the pricing fields. 6. Leave both left and right fields empty.	1. System returns matching results for items with a stock quantity greater than or equal to the left field value. 2. System returns matching results for items with a stock quantity less than or equal to the right field value. 3. System returns matching results for items with a stock quantity between the left and right values, inclusive. 4. System displays an error message: “Invalid Stock Quantity!” indicating invalid range. 5. The field does not accept invalid characters input, except “-” for negative values (users can input negative stock quantities). 6. System returns all available items with no “Stock Quantity” restriction applied.	
TC-005	**Search -** Pricing Range Field.	1. Input a value in the left field, leaving the right field empty. 2. Input a value in the right field, leaving the left field empty. 3. Input values in both left and right fields, ensuring left ≤ right. 4. Input values in both left	1. System returns matching results for items with a price greater than or equal to the left field value. 2. System returns matching results for items with a price less than or equal to the right field value. 3. System returns matching results for items with a price between the left and right values, inclusive. 4. System displays an error message:	

		and right fields, ensuring left > right. 5. Input special characters or invalid data in the pricing fields. 6. Leave both left and right fields empty.	"Invalid price range!". 5. The field does not accept invalid characters input. 6. System returns all available items with no "Pricing Range" restriction applied.	
TC-006	**Add New -** Create a new Item.	1. Click "Add New".	1. User is successfully redirected to the "Create New" page. 2. The "Create New" page loads correctly. 3. Input fields for item details (e.g., Name, Price, Stock Quantity) "Save" and "Cancel" buttons	
	Row Tile - Verify Row Titles	1. Verify the presence and accuracy of the following row titles: • Picture • Name • Price • Stock Quantity • Category • Tax • Tax Rate • SKU • Details • Edit • Delete	1. The row titles should be exactly as listed: • Picture • Name • Price • Stock Quantity • Category • Tax • Tax Rate • SKU • Details • Edit • Delete 2. All row titles should be visible in the correct order, with no missing or incorrect labels.	
TC-007	**View -** View the details of the item.	1. Click "View". 2. Attempt to modify fields on the Details page. 3. Click "Edit". 4. Click "Back".	1. User is successfully redirected to the Details page. 2. User is not allowed to edit; fields are read-only. 3. User is redirected to "Edit" page. 4. User is redirected to "Inventory -	

			Item" page.	
TC-008	**Valid Edit -** Edit an item with valid behavior.	1. Click "Edit". 2. Modify fields with valid inputs. 3. Click "Save". 4. Refresh the page. 5. Navigate to other modules where this data is used.	1. User is successfully redirected to the "Edit" page. 2. User is allowed to edit the details. 3. Changes are successfully saved, reflected in the system, and a success message appears. 4. Edited details persist correctly. 5. Data is consistent across all relevant pages.	
TC-009	**Invalid Edit -** Attempt to save without making any changes	1. Click "Edit". 2. Without making any changes, click "Save". 3. Observe system behavior.	1. User is successfully redirected to the Edit page. 2. System displays a message: "Nothing changed!" 3. The page remains on the Edit screen, and no unnecessary API calls or updates occur.	
TC-010	**Invalid Edit -** Edit with invalid values	1. Click "Edit". 2. Enter invalid data (e.g., exceeding character limit, special characters, leaving required fields empty). 3. Click "Save". 4. Observe the flagged fields. 5. Try clicking "Save" again without correcting errors.	1. User is successfully redirected to the Edit page. 2. Fields accept input. 3. System prevents saving and displays appropriate error messages for invalid fields. 4. The error fields are highlighted with red border. 5. The system continues to block saving until all errors are resolved.	
TC-011	**Invalid Edit -** Navigate away without saving.	1. Click "Edit". 2. Modify some fields. 3. Click "Back". 4. Click "Cancel" on the warning prompt. 5. Click "Yes" on the warning prompt.	1. User is successfully redirected to the "Edit" page. 2. Fields accept changes. 3. System displays a warning message: "You have unsaved changes. Do you want to leave?" 4. The warning prompt disappears, and the user remains on the Edit page	

			with unsaved changes intact. 5. The warning prompt disappears, changes are discarded, and the user is redirected to the Inventory - Item page.	
TC-012	**Delete** - Delete an item	1. Click “Delete”. 2. Click "Cancel" on the confirmation prompt. 3. Click "Yes" on the confirmation prompt	1. A confirmation prompt appears with the message: "Are you sure you want to delete this item?" 2. The confirmation prompt disappears, and the item remains unchanged in the system. 3. The confirmation prompt disappears, and the item is successfully deleted from the system. The item should no longer be visible in the list or database.	

7. Pass/Fail Criteria

The following criteria will be used to determine whether the tests pass or fail:

- Pass Criteria:
  - The feature behaves as expected according to the defined test case.
  - No critical or high-severity defects are found.
  - Performance benchmarks (e.g., response time, load handling) meet the defined thresholds.
  - All identified security vulnerabilities are addressed or mitigated.
  - The user interface is functional and intuitive, with no major usability issues.
- Fail Criteria:
  - A test case does not meet the expected results or the feature is not functioning as intended.
  - Critical or high-severity defects are identified that affect the core functionality of the Analysis and Inventory modules.
  - Performance does not meet the acceptable thresholds (e.g., slow load times or failure under load testing).
  - Any security vulnerabilities or breaches are discovered.
  - Usability issues severely impact the user experience or make the interface difficult to navigate.

8. Risks & Mitigation

Risk	Mitigation Plan
Time Constraints: Due to the limited time for testing, not all modules and scenarios may be tested exhaustively.	Prioritize high-risk and critical scenarios based on functional importance. Focus testing efforts on Analysis and Inventory modules as per the scope.
Limited Access to Non-Public Modules: The plan does not cover non-public modules (e.g., Reseller, Merchant), which may result in incomplete test coverage.	Ensure all critical functionalities within the Analysis and Inventory modules are thoroughly tested. Any future testing of non-public modules can be conducted once access is granted.
Inconsistent Test Environments: There may be discrepancies between the test/staging environment and the production environment, leading to undetected issues.	Validate that the staging environment replicates the production setup as closely as possible. Include testing in multiple browsers and devices to account for environment variations.
Unforeseen Security Vulnerabilities: New security vulnerabilities may be discovered during testing.	Run regular security scans and address any vulnerabilities immediately. Use established security testing tools to detect potential issues proactively.

9. Assumptions & Dependencies

Assumptions:

1. The **Analysis** and **Inventory** modules are functional and have been developed to the expected requirements.
2. The staging environment is set up and configured to replicate the production environment as closely as possible.
3. All required data for testing (e.g., sample transactions, items) is available for testing the modules.
4. The public-facing features of the portal are not dependent on internal, non-public-facing systems or features.

Dependencies:

1. **Availability of Testing Resources**: Testers need access to appropriate tools and resources (e.g., testing environments, test data, security scanning tools) to perform tests effectively.
2. **Development Team Support**: The testing schedule is dependent on timely access to the development team to fix issues and provide any necessary updates or clarifications.

3. **Tool Availability**: The automated testing tools (e.g., for performance testing) should be available and functional to support the testing process.
4. **Approval for Public Access**: Testing assumes that the **Analysis** and **Inventory** modules are publicly accessible, as these are the only modules included in this test plan.