**Feature MF01: Monefy Install/Uninstall**

**Charter 1:** Install the App

**Objective**: Ensure that users can successfully find, download, and install the app from the App Store without issues.

**Scope**:

* Searching for the app in the App Store.
* Downloading and installing the app on different iOS versions.
* Observing any errors or delays during installation.

**Approach:**

* Performed manual exploratory testing on multiple iOS versions.
* Used different network conditions (Wi-Fi, Mobile Data) to verify installation behaviour.
* Observed and documented any UI prompts, errors, or delays.

**Findings:**

* The app was successfully downloaded and installed without issues.
* No errors or unexpected behaviour observed.

**Risk:**

No risks identified during testing. The app was successfully found, downloaded, and installed without any issues.

**Charter 2:** Uninstall the App

**Objective:** Ensure that users can uninstall the app from the phone without issues.

**Scope:**

* Uninstalling the app from device settings.
* Uninstalling the app from the home screen (long press → Remove app).
* Verifying that the app is completely removed from the device.

**Approach:**

* Uninstalled the app from device settings and home screen (long-press method).
* Checked if any residual app data remained after uninstallation.

**Findings:**

* The app was successfully uninstalled from the phone without issues.
* No errors or unexpected behaviour were observed.

**Risk:**

No risks were identified during this testing session.

**Feature MF02: Expense Entry Management**

**Objective:** Ensure that the expense addition feature functions correctly and records entries as expected.

**Scope**:

* Adding an expense with correct note and category
* Editing an expense
* Deleting an expense
* Validating DMAS (Division, Multiplication, Addition, Subtraction) functions for adding expenses
* Adding an expense for future date
* Adding expense in future week view

**Approach:**

* Checked the expense functionality with valid and invalid data
* Performed some DMAS functions for adding expenses
* Observed UI behaviour and data consistency
* Checked for responsiveness and performance

**Findings:**

* Expense was **added successfully**, along with notes and category selection. The calculation for multiple expense entries worked correctly without any issues.
* The functionality for adding an expense on **past, present,** and **future dates works as expected**, allowing users to select the desired date without any issues.
* The expense entry field allows a maximum of **9 digits**, but there is no warning or error message indicating this limit. As a result, users may not realize why they are unable to enter additional digits, potentially causing confusion.
* The note field for expenses allows up to **3,861 characters**. However, when an additional character is entered, there is no warning or error message. Instead, the text is simply truncated and displayed with "…", making it unclear whether the extra text is saved or discarded.
* While adding an expense, **the calculator does not display the full mathematical expression as the user types**. For example, when entering "30/3", the UI first shows "30", but after pressing "/", it still only displays "30" instead of indicating the division operation. When the user types "3", the display updates to just "3", making it unclear that a division is being performed. Finally, after pressing "=", the correct result "10" appears. Since users cannot see the entire calculation as they enter it, this can lead to confusion. A more user-friendly approach would be to show the full expression (e.g., "30 / 3") in real time to provide clarity.
* When adding an expense amount, the number pad opens as expected. However, when switching to adding a note, **the number pad remains open beneath the keyboard**, creating a cluttered interface. Even after the note is added, the number pad does not close automatically, which may cause confusion. Additionally, the option to select a category is not clearly highlighted, making it less intuitive for users to proceed to the next step. Ideally, the number pad should close after adding an amount, and the note and category selection option should be visually emphasized to guide the user seamlessly through the process.
* Tested with **0 as the expense amount**, and the functionality works as expected. However, instead of briefly blinking red for a second, displaying an error message would provide clearer feedback. Additionally, the system allows users to add a note even when the amount is 0, but the red blink appears only when attempting to select a category. A more intuitive approach would be to prompt the user with an error message at the time of entering 0 to ensure clarity.
* The functionality for **adding an expense in a future week** view does not work as expected. While the app allows users to select a future week and add an expense, the transaction is automatically recorded under today’s date instead of the selected future date.

**Risk:**

While the expense tracking feature functions as expected, certain usability concerns may affect the overall user experience. The absence of warnings for input limits in the expense and note fields may leave users unaware of why additional inputs are not accepted or displayed correctly. Similarly, the calculator not showing the full mathematical expression in real time could lead to confusion when performing calculations. The persistent number pad during note entry and the unclear category selection option may make navigation less intuitive. Additionally, the incorrect handling of future week expenses could lead to discrepancies in financial records. While these issues do not hinder core functionality, enhancing clarity and user guidance would improve usability and reduce potential frustration.

**Feature MF03: Income Entry Management**

**Objective:** Ensure that the income addition feature functions correctly.

**Scope:**

* Adding an income with correct note and category
* Editing an income
* Deleting an income
* Validating DMAS(Division, Multiplication, Addition, Subtraction) functions for adding incomes
* Adding an income for future date
* Adding income in future week view

**Approach:**

* Checked the income functionality with valid and invalid data
* Performed some DMAS functions for adding income
* Observed UI behaviour and data consistency
* Checked for responsiveness and performance

**Findings:**

* Income was **added successfully**, along with notes and category selection. The calculation for multiple income entries worked correctly without any issues.
* The functionality for adding an income on **past, present,** and **future dates works as expected**, allowing users to select the desired date without any issues.
* The income entry field allows a maximum of **9 digits**, but there is no warning or error message indicating this limit. As a result, users may not realize why they are unable to enter additional digits, potentially causing confusion.
* The note field for income allows up to **3,861 characters**. However, when an additional character is entered, there is no warning or error message. Instead, the text is simply truncated and displayed with "…", making it unclear whether the extra text is saved or discarded.
* When entering a mathematical calculation while adding an income**, the calculator does not display the full expression as it is being typed**. For instance, if a user wants to compute "50-20", the display initially shows "50". After pressing "-", the UI still only shows "50" without indicating the subtraction operation. When "20" is entered, the screen updates to just "20", making it unclear that a subtraction is taking place. The correct result, "30", is displayed only after pressing "=". This lack of real-time visibility into the full calculation may cause confusion for users. A more intuitive approach would be to display the entire expression (e.g., "50 - 20") as it is entered, ensuring clarity.
* When adding an income amount, the number pad opens as expected. However, when switching to adding a note, **the number pad remains open beneath the keyboard**, creating a cluttered interface. Even after the note is added, the number pad does not close automatically, which may cause confusion. Additionally, the option to select a category is not clearly highlighted, making it less intuitive for users to proceed to the next step. Ideally, the number pad should close after adding an amount, and the note and category selection option should be visually emphasized to guide the user seamlessly through the process.
* Tested with **0 as the income amount**, and the functionality works as expected. However, instead of briefly blinking red for a second, displaying an error message would provide clearer feedback. Additionally, the system allows users to add a note even when the amount is 0, but the red blink appears only when attempting to select a category. A more intuitive approach would be to prompt the user with an error message at the time of entering 0 to ensure clarity.
* The functionality for **adding an income in a future week view does not work as expected**. While the app allows users to select a future week and add an income, the transaction is automatically recorded under today’s date instead of the selected future date.

**Risk:**

While the income tracking functionality works as expected, certain usability gaps may impact user experience. The absence of warnings for input limits in the income entry and note fields can cause confusion, as users may not immediately understand why additional inputs are not accepted. The calculator's inability to display full mathematical expressions in real time may lead to misinterpretation of calculations. Additionally, the persistent number pad after adding a note and the lack of clear category selection guidance can make navigation less intuitive. Lastly, the incorrect handling of future week income entries may result in inaccurate financial tracking. While these issues do not block functionality, improving feedback, UI clarity, and data accuracy would enhance usability and prevent potential user frustration.

**Feature MF04: Balance functionality and correct category tagging**

**Objective:** Ensure that the correct balance is displayed on the main page, and all expenses are tagged to the correct category icon.

**Scope:**

* Verifying that the balance updates correctly after adding, editing, or deleting an expense or income.
* Ensuring that each expense and income is assigned to the correct category.
* Ensuring the percentage (%) is correctly reflected for each expense.
* Checking UI consistency for balance display and category icons.
* Validating calculations for overall balance based on income and expenses calculations.

**Approach:**

* Added multiple expenses and incomes to observe how the balance updates.
* Edited and deleted transactions to verify real-time balance adjustments.
* Checked whether expenses and incomes are correctly categorized.
* Tested with different input values, including large numbers and zero amounts.
* Observed UI behaviour to ensure clarity and consistency in balance display and category icons.

**Findings:**

* **The balance updates correctly** when adding, editing, and deleting expenses and incomes.
* **All expenses and incomes were assigned to their selected categories** without any mismatches.
* **The overall balance calculation works smoothly**, with no discrepancies observed in multiple income and expense entries.
* **The three lines on the left side of the balance button perform the exact same function** as the balance button itself. This redundancy may cause confusion for users and could be an unnecessary use of multiple buttons for the same functionality.

**Risk:**

While the balance functionality works as expected, ensuring accurate updates and correct category assignments, minor usability concerns could impact the user experience. The redundancy of the three-line icons performing the same function as the balance button may lead to confusion and unnecessary clutter in the interface. While this does not affect functionality, refining the UI to remove redundant elements could enhance clarity, improve navigation, and contribute to a more polished product.

**Feature MF05: Settings Panel Review**

**Charter 1:** App Language Customization

**Objective**: Ensure that users can seamlessly customize the app’s language and that all UI elements, labels, and text adapt correctly to the selected language.

**Scope:**

* Changing the language from the settings menu
* Verifying that all UI elements, labels, and messages update correctly after a language change
* Ensuring special characters and non-English scripts display properly
* Checking if the app retains the selected language after restarting
* Validating error messages, notifications, and pop-ups in different languages
* Ensuring proper alignment and formatting for right-to-left (RTL) languages, if applicable

**Approach:**

* Navigate to the settings menu and change the language
* Verify that the language updates across all sections of the app
* Check for any untranslated text or placeholder strings
* Restart the app and confirm that the selected language persists
* Test with multiple languages, including those with special characters
* Observe UI responsiveness and alignment for different language lengths

**Findings:**

* **No issues were found** in rendering special characters or displaying multilingual text correctly.
* **The selected language persists after restarting the app**, ensuring continuity.
* **The language change option is functional and provides an intuitive user experience.** When switching from English to Dutch, the system correctly displays a confirmation popup in Dutch, instructing the user to restart the app for the language change to take full effect.
* **Observed partial language translation behaviour**: The settings panel updates immediately after selecting a new language, even before restarting the app. However, other key sections, such as the balance page and the left-side navigation panel (Week/Month/Year views), remain in the previous language until the app is restarted. This creates an inconsistent transition experience.

**Risk:**

The developers have demonstrated attention to user experience by providing an immediate confirmation popup in the updated language, ensuring clarity during the transition. However, the inconsistent application of language changes across different sections of the app may lead to user confusion. A more uniform approach, where all UI elements either update instantly or only after a restart, would improve consistency and enhance localization quality.

**Charter 2:** Currency Exchange Functionality

**Objective:**

Ensure that users can seamlessly switch between different currencies and that expenses, incomes, and balances are accurately converted rather than just changing the currency symbol.

**Scope:**

* Users should be able to switch the currency from the settings panel.
* Validating whether expenses and incomes are correctly converted upon a currency change.
* Ensuring that balance calculations remain accurate after switching currencies.
* Assessing UI consistency across all sections displaying currency values.

**Approach:**

* Navigate to the settings panel and change the currency.
* Add an expense in one currency (e.g., $20) and then switch to another currency (e.g., INR).
* Observe whether the amount is converted based on exchange rates or if only the currency symbol changes.
* Verify if the balance and reports reflect the correct conversion.
* Ensure all sections, including transaction history, balance summary, and reports, consistently display the correct currency values.

**Findings:**

* **Users can successfully switch between different currencies** in the settings panel.
* **However, when a user adds an expense in $20** and then switches the currency to INR, the **app displays the amount as ₹20** instead of performing the correct currency conversion.
* **There is no indication that currency values remain unchanged** when switching between currencies, which may mislead users into believing conversions are applied.
* **No exchange rate calculations are performed**, resulting in inaccurate financial representation for users dealing with multiple currencies.

**Risk:**

The lack of actual currency conversion when switching between currencies introduces a significant financial accuracy risk. Users may assume their transactions are being converted, leading to incorrect financial records and potential miscalculations. The absence of a warning or disclaimer further amplifies the risk of misunderstanding. To improve usability and accuracy, the app should either implement real-time currency conversion or explicitly inform users that switching currencies only changes the symbol without altering values. Addressing this issue is crucial to maintaining trust and ensuring reliable financial tracking.

**Charter 3:** General Settings & Feature Behaviour Check

Bottom of Form

**Objective:**Ensure that all configurable options in the settings panel function as expected, allowing users to customize their experience without any inconsistencies or usability issues.

**Scope:**

* Enabling and validating the Budget Mode option
* Checking the Carry Over feature for unspent amounts
* Changing the first day of the week and month and confirming the update reflects correctly
* Creating a data backup, restoring the data, and ensuring data integrity after restoration
* Testing the Clear Data functionality and ensuring all data is removed as expected
* Verifying the Contact Support option functions correctly and redirects users appropriately
* Checking Dark Mode functionality in both app settings and system-wide settings to ensure expected behaviour

**Approach:**

* Navigate to the settings panel and select each option individually
* Validate that changes are applied correctly
* Modify the first day of the week/month and confirm that the weekly/monthly calendar updates accordingly
* Perform a data backup, restore the data, and verify that all records remain intact
* Use the clear data option and confirm the app resets without any lingering records
* Access the contact support section and ensure proper redirection to help resources
* Enable Dark Mode in both system settings and app settings, observing how the UI behaves in each scenario

**Findings:**

* All tested settings **function as expected**, and no discrepancies were observed in budget mode, carry-over calculations, week/month start customization, data backup, restoration, or data clearing.
* The **Contact Support** option successfully displays the correct **support email** and **app information**, ensuring users can reach out for assistance when needed.
* **Dark mode does not work when the phone’s dark mode is enabled**. The in-app dark mode option is restricted to **premium subscribers**, making it inaccessible for free users. However, dark mode is a fundamental **accessibility feature** that enhances usability, especially for users sensitive to bright screens. Given its importance, it should be available to all users rather than being locked behind a premium subscription.

**Risk:**  
While all core settings function correctly, the lack of universal dark mode support could negatively impact usability and accessibility. Since dark mode is a standard feature in most applications, limiting it to premium users may affect those who rely on it for better visibility and reduced eye strain. Providing dark mode for all users would enhance overall user experience and support better eye health, especially for individuals sensitive to bright screens.

**ADDITIONAL OBSERVATIONS:**

1. **Transfer functionality (Payment card 🡨🡪 Cash)**

* Transfers between payment card and cash are functioning correctly, allowing seamless movement of funds in both directions.
* Transfer entries between card and cash are visible in both the payment card and cash views, ensuring transparency in individual account transactions.
* However, in the "All Accounts" view, only expense and income entries are displayed, while internal transfers between cash and payment card are missing. The purpose of the "All Accounts" view seems to be providing a comprehensive transaction report, but the absence of these internal transfers may lead to incomplete financial insights.

1. **Budget Mode on**

* When Budget Mode is enabled, there is no warning when exceeding the monthly budget. If a user extends a budget beyond the set limit, the app does not provide any alert or notification indicating that they are exceeding their budget for the month.