● First Part: Test Design:

1. A list of ideas/bullet points you would test for. Focus on good coverage, rather than complete test cases.

Case ID	Test Points	Priority	Precondation	Steps	Test Data	Expected Result	Test result	Comments
Case_000	Search and install app.	A	Connect with WIFI or enable Mobile Data	1- Open the play store and search for the Monefy app. 2- Press install to install the app.		1- Monefy app should be found. 2- Monefy app is downloaded and installed normally. 3- The App icon is displayed normally on the mobile.		
Case_001	Search in the app.	A	None	1- Click on the search icon in the top bar. 2- Type in different letters and different words.		The Search result should meet the search input.		
Case_002	Icons and its title.	B	None	1- Observe each icon in the home screen. 2- Long press on each icon to display its title or name.		1- Icons should be clearly displayed and have no invisible icons or overlapping. 2- Title or name of icons should be displayed correctly on long press on each icon.		
Case_003	Add an expense.	A	None	1- Press the expense icon. 2- Click		1- The icon works normally and a new expense screen will appear. 2- Select Date		

				the date in the top then choose different dates. 3- Click the accounts icon and choose different accounts. 4- Click on note and write note. 5- Write different values. 6- Click choose Category 7-Choose a category from the category list.		Screen will appear and you can choose the required date normally. 3- Could switch between different accounts (cash, payment card, …etc.). 4- Could type any note in any language. 5- values could be written and changed normally. 6- All available categories will appear normally (car, bills, clothes, gifts ... .etc.) 7-The expense will be added in the chosen category successfully.		
Case_004	Add an income.	A	None	1- Press the expense icon. 2- Click the date in the top then choose different dates. 3- Click the accounts icon and choose different accounts. 4- Click		1- The icon works normally and a new income screen will appear. 2- Select Date Screen will appear and you can choose the required date normally. 3- Could switch between different accounts (cash, payment card, …etc.). 4- Could type any note in any language. 5- values could be		

				on note and write note. 5- Write different values. 6- Click choose Category 7-Choose a category from the category list.		written and changed normally. 6- All available categories will appear normally (Deposits, Salary, Savings). 7-The income will be added in the chosen category successfully.		
Case_005	Equation	A	None	1- Press the income or expense icon. 2- Try to do different equations using different operators (+,-,*,/).		1- The icon works normally and a new income screen will appear. 2- Equations are calculated correctly.		
Case_006	Edit or delete a record	B	Different Income and expense records exist.	1- Click on the Balance. 2- Click on any record. 3- Press on the trash can to delete. 4- Edit the date, the value and the category then press the back button in		1- All the income and expense records are displayed. 2- edit page will be opened. 3- The record will be deleted from the whole app. 4- The record will be edited in the whole app.		

				the top left..			
Case_007	Summation of income records.	A	Different Income records exist.	1- Click on the Balance. 2- Sum all the income records.		1- All the income and expense records are displayed. 2- The sum result is the same as the income result on the home screen.	
Case_008	Summation of expense records.	A	Different expense records exist.	1- Click on the Balance. 2- Sum all the expense records.		1- All the income and expense records are displayed. 2- The sum result is the same as the expenses result on the home screen.	
Case_009	Summation of incomes and expenses.	A	Different Income and expense records exist.	1- Click on the Balance. 2- Sum all the income records and subtract all the expense records.		1- All the income and expense records are displayed. 2- The result is the same as the balance result.	
Case_010	Records grouping and sorting.	B	Different Income and expense records exist.	1- Click on the Balance. 2- Click on the grouping icon. 3- Group by category. 4- Group by date.		1- All the income and expense records are displayed. 2- Switching between group by category and group by date. 3- grouping is correct. 4-Grouping is correct and sorted by date.	
Case_011	Rename Category.	B	None	1- Click on		1- setting list will appear.	

				settings (the three vertical dots on the top right). 2- Select Categories. 3- Choose any Category from the Category list. 4- Click on Category name and edit the name.		2- List of all available Categories will appear. 3- Edit Category page will appear. 4- Category will be renamed successfully. 5-The new Category name appears in all the app.		
Case_012	Enable and Disable Category.	B	None	1-Click on settings (the three vertical dots on the top right). 2- Select Categories. 3-Choose any Category from the Category list. 4-Click on more options (the three vertical dots on the top right). 5-Click enabled to		1- setting list will appear. 2- List of all available Categories will appear. 3- Edit Category page will appear. 4- list will appear that contains merge and enable switch. 7- The Category will be disabled.		

				uncheck. 6- Click the back arrow in the top left. 7-Repeat steps from 1 to 2 then observe the chosen category from the available category list.				
Case_013	Delete Category.	B	None	1- Click on settings (the three vertical dots on the top right). 2- Select Categorie s. 3- Choose any Category from the Category list. 4- Click on the trash icon.		1- setting list will appear. 2- List of all available Categories will appear. 3- Edit Category page will appear. 4- Warning message will appear then Category will be deleted successfully. 5-The Category is deleted and does not exist on the whole app.		
Case_014	Merge Category.	B	None	1-Click on settings (the three vertical dots on the top right). 2- Select		1- setting list will appear. 2- List of all available Categories will appear. 3- Edit Category page will appear.		

				Categories. 3-Choose any Category from the Category list. 4-Click on more options (the three vertical dots on the top right). 5-Click merge. 6- Select the Category you want to merge with.		4- list will appear that contains merge and enable switch. 5- List of Available Categories will appear. 6-The Category is merged and does not exist on the whole app.		
Case_015	Add Account	C	None	1-Click on settings (the three vertical dots on the top right). 2- Select Accounts. 3- Select Add. 4- Click on the name and edit the name (Type in different letters and different words and different language		1- setting list will appear. 2- List of all accounts will appear. 3- New account page will appear. 4-Name added successfully. 5- Calendar will appear and initial balance date will be chosen successfully. 6- Initial account balance is set successfully. 7-All icons could be selected successfully. 8-The new account is added in the whole app.		

				s). 5- Click on the initial balance date. 6 -Click on the initial account balance. 7- Select the icon from the icons list (try different icons). 8-Click ADD in the top right.				
Case_016	Edit Account	B	None	1-Click on settings (the three vertical dots on the top right). 2- Select Accounts. 3- Select one of the added accounts to edit. 4- Click on the name and edit the name (Type in different letters and different words and different		1- setting list will appear. 2- List of all accounts will appear. 3- Edi account page will appear. 4-Name edited successfully. 5- Calendar will appear and the initial balance date will be chosen successfully. 6- Initial account balance is edited successfully. 7-All icons could be selected successfully. 8-The account is edited in the whole app.		

				languages). 5- Click on the initial balance date to edit. 6 -Click on the initial account balance to edit. 7- Select a new icon from the icons list (try different icons). 8-Click the back arrow in the top left..				
Case_017	Transfer	B	None	1-Click on settings (the three vertical dots on the top right). 2- Select Accounts. 3- Select Transfer.(try to select transfer icon from the home page) 4-Click the two drop down lists to choose the		1- setting list will appear. 2- List of all accounts will appear. 3- The new transfer page will appear. 4- list of all existing accounts will appear and accounts will be chosen successfully. 5- Calendar will appear and the date could be chosen successfully. 6- Typed amount will appear on the screen right. 7- The transfer is		

				from-to accounts. 5-Click on the date on the top. 6-Click on the amount bar and type the amount. 7- Select Add transfer.		successfully made.		
Case_018	Different tracking views.	C	Different income and expenses are added in different days, weeks, months and years.	1-Click the three horizontal lines in the top left. 2- choose all different views (Day, Week, Month, Year, All, interval and Choose date)		1-List of different views will appear. 2-Each view is selected successfully.		
Case_019	Switch between accounts	A	None	1-Click the three horizontal lines in the top left. 2- Click the drop down list at the top and switch between different		1-List of different views will appear and drop down list of accounts. 2- Switching is correct between all accounts.		

					accounts.			
Case_020	Carry over	C	Different income and expenses are added in different days, weeks, months and years.	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3-Under Balance check carry over.		1-Setting list will appear. 2- All settings appears. 3- The Carry over function is working successfully in different views (Day, Week, Month, Year, All, interval and Choose date).		
Case_021	Budget mode	C	None	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3-Under Balance check Budget mode and enter a budget value.		1-Setting list will appear. 2- All settings appear. 3- The budget value is added successfully.		
Case_022	Change Language	A	None	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3-Under General settings click Language .		1-Setting list will appear. 2- All settings appear. 3- Select preferable language list will appear with all available languages. 4-The Language of the whole app will change to the selected language.		

				4-Select Language from the list and click ok.				

Case_023	Change Currency	C	None	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3- Under General settings click Currency. 4-Select Currency from the list.		1-Setting list will appear. 2- All settings appear. 3-List will appear with all available currency sorted in alphabetical order. 4-The currency used in the whole app will change to the selected currency.		
Case_024	Change First day of week.	C	1-Set View to Week View. 2- Add records in different weeks.	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3- Under General settings click first day of week. 4-Select day.		1-Setting list will appear. 2- All settings appear. 3-List of days will appear with the 7 days of the week sorted correctly. 4-The records were split correctly according to the chosen day.		
Case_025	Change First day of month.	C	1-Set View to Month View. 2- Add records in different months.	1-Click on settings (the three vertical dots on the top right).		1-Setting list will appear. 2- All settings appear. 3-List of numbers from 1 to 31 will appear sorted		

					2- Select Settings. 3- Under General settings click first day of month. 4- Select day.		correctly. 4-The records were split correctly according to the chosen day.		
Case_026	Review application	C	None		1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3- Under General settings click Review applicatio n.		1-Setting list will appear. 2- All settings appear. 3- Monefy app will open in the play store to give a rate and review.		
Case_027	Export to file	C	None		1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3- Under General settings click Export to file and click ok.		1-Setting list will appear. 2- All settings appear. 3- .csv file is saved with all the records.		
Case_028	About Monefy	C	None		1-Click on settings (the three vertical dots on		1-Setting list will appear. 2- All settings appear. 3- About menu will		

				the top right). 2- Select Settings. 3- Under General settings click About Monefy.		pop up.	
Case_029	Privacy Policy	C	None	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3- Under General settings click Privacy Policy.		1-Setting list will appear. 2- All settings appear. 3-Monefy app Privacy Policy will open in webpage.	
Case_030	Data backup	B	Add some different income and expense records.	1-Click on settings (the three vertical dots on the top right). 2- Select Settings. 3-Under Data backup click create data backup and save the backup. 4-Under Data backup click clear		1-Setting list will appear. 2- All settings appear. 3- Backup stored message will pop up. 4-All data records will be deleted successfully. 5-Backup restored message will pop up and all records are back as it was backed up.	

				data and choose yes. 5-Under Data backup click Restore data and select the saved backup in step 3.				

2. A prioritization of such test cases according to their possible business impact
- A:
  - Must have.
  - Cannot deliver on target day without this.
  - Not legal without it.
  - Unsafe without it.
  - Without it the project is not applicable.
- B:
  - Should have.
  - Important but not vital.
- C:
  - Could have.
  - Desirable but not as important as B.
  - Only do it if there is extra time and budget.
- D:
  - Nice to have but has no real impact.

- **Second Part: Bug Reporting:**

  1.Write down six bugs you found.
  2. Mention (Title, Reproducible Steps, Attachments, Affected Devices, Network, Severity, Priority, Impact).

Title	Steps	Attachments	Affected Devices	Network	Severity	Priority	Expected result	Actual result	User Impact
[Language] The Language	1- click on settings (the three	Screen record: https://photos.app.goo.gl/Zkx3mnSDvsx	Model: infinx X650C OS: Android 9	Connected to network	Major	High	App Language should be changed to the	App Language is not changed except	User that does not know

does not change when choosing another language other than English.	vertical dots on the top right). 2- choose settings. 3- click language. 4- select any language other than English. 5- observe the app language.	DedzF6						selected language (for example if the chosen language is German: expense should be Kosten, income should be Einkommen, settings should be Einstellung …. etc.)	for the months that are translated.	english will uninstall the app.
[Enable and Disable Categories] Category with expense transaction should not be disabled	1- make an expense with any category (car as example) 2- click on settings (the three vertical dots on the top right).. 3- choose settings. 4- Click Categories. 5- Choose the Category with	Screen record: https://photos.app.goo.gl/yEUGnNt9daB8vKg6A	Model: infinx X650C OS: Android 9	Connected to network	Major	medium	Error message should pop up that said Category with expense transaction could not be disabled	The Category with expense transaction is disabled in the Categories list but not disabled in the home screen.	User confusion.

	expense transaction made in step 1 (car as example). 6-click on more options (the three vertical dots on the top right). 7- Click enabled to uncheck. 8- Click the back arrow in the top left.								
[Expense and income icons] icons changed to + and - instead of income and expense after changing the language 3	1- click on settings (the three vertical dots on the top right). 2- choose settings. 3- click language. 4- select any language other than the selected one.	Screen record: https://photos.app.goo.gl/psJ24YPcT1As2pu9A	Model: infinx X650C OS: Android 9	Not connected to network	Minor	Low	Icons should not change.	Icons change.	User confusion.

times.	5- repeat from 1 to 4 another 2 times.								
[Merge] Cannot unmerge merged categories.	1- click on settings (the three vertical dots on the top right). 2- choose Categories. 3- choose any category . 4- click on more options (the three vertical dots on the top right). 7- Click Merge. 8- Choose any other category . 9- repeat steps 1 to 3 then observe the Categori	Screen record: https://photos.app.goo.gl/LRDqmdXK8SsXwDX28	Model: infinx X650C OS: Android 9	Not connected to network	Critical	High	Merged Categories should exist to unmerge.	Merged Categories did not exist.	User will have to clear all the data to unmerge the categories so all his data will lost at that could make him uninstall the app.

	es.								
[Editing categories] cannot switch between Categories in the Categories editing screen.	1- click on settings (the three vertical dots on the top right). 2- choose Categories. 3- choose any category from the available categories list to edit. 4- click another category that exists in the available categories list.	Screen record: https://photos.app.goo.gl/J4WAMG1basKXaBtM9	Model: infinx X650C OS: Android 9	Connected to network	Major	High	Could switch to the selected category to edit.	Purchase screen will appear even if the selected category is available for free. And to edit another category you should go back to the home screen.	Very bad User Experience.
[Equations] Writing equation in expense or in income that ends with operat	1-Press Expense or Income. 2- write equation that ends with operator for example (2+4+) 3- Press	Screen record: https://photos.app.goo.gl/Zhb5gDtGkbZbFrRT7	Model: infinx X650C OS: Android 9	Not connected to network	Major	Medium	Error message that said the equation should be valid or the equation should not end with an operator.	the equation would be acceptable and perform on the last number. For example (2+4+) will be 12.	User confusion.

or (+,-,*,/) the equation would be acceptable and perform on the last number.	choose Category.								
[Adding a budget mode] Keyboard not automatically closed	1-Click on settings (the three vertical dots on the top right). 2-Select Settings. 3-Under Balance check Budget mode and enter a budget value then click ok.	Screen record: https://photos.app.goo.gl/dE9Xmg7H7ZL1tte89	Model: infinx X650C OS: Android 9	Not connected to network	Minor	Low	The budget is selected normally and the keyboard will be closed automatically.	The budget is selected normally but the keyboard did not close automatically.	Bad user experience.

3. QA Engineers don't only work with developers, but also closely collaborate with Product Managers. It would be great if you have a strong product sense, you're welcome to spot any UX issues in this app and write it down

- Connecting the actual visa account or any online account with the app so it will be updated automatically with each transaction made by the visa card or by the online account will be great.

- Writing equation is not displayed on the screen and this is a very bad user experience and very confusing.
- In budget mode the user could not see his total income, So adding another field on the budget mode so the user could see his total income, his total expense and the allowed budget will be more clear and give a good user experience.
- Adding an income or expense with 0 amount the value bar become red with animation without any pop up message, So adding a pop up message will be more clear.
- In the select preferable language list the languages are not sorted, So adding a sorted list will be much better.
- Adding three free days in Monefy Pro will be great and could increase the Purchase of Monefy Pro.
- Synchronization is made manually in the app, So adding auto Synchronization will be great.
- Adding some sound effects is always a valuable add.

- **Third Part: Test Automation:**
    How would you test the "search" UI functionality of your favorite website
https://www.google.com
    1. Document several test cases.
    - Verify that Google Logo is present and visible.
    - Verify that the search textbox is present, visible and editable.
    - Verify that the search request should get hit by clicking on the search button after writing the search term.
    - Verify that the search request should get hit by clicking enter after writing the search term.
    - Verify that clicking the search result will lead to the corresponding web page.
    - Verify that after the search result page load could back to the home page by clicking the logo.
    - Verify that the search result exists in the search result URL.
    - Verify that pagination is present in case the number of results are greater than the maximum results allowed in a page.
    - Verify that the user can move to the previous or next page using the next and previous buttons.
    2. Implement automated tests based on the test cases from the previous step.
    Github repo: [MohamedKamal98/Mohamed_Ahmed_Ahmed_Kamal_ (github.com)](github.com)