Test Plan

Monefy application

**Version:** 1.0

**Created:**

7/12/2019

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**Last Updated:**

7/12/2019

**Status:** DRAFT

**Revision and Signoff Sheet**

**Document History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description of Change |
| 1 |  |  |  |
| 2 |  |  |  |

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**1. Introduction**

**1.1 Overview**

This document describes a test strategy for **Monefy** mobile application and approaches, which the test team will use to verify the quality of the product prior to release.

**1.2 Scope**

The purpose of the test strategy is to formalize the testing process, plans and approaches to testing, interfacing process with the development team and the project team to achieve the high quality of the software product.

**2. Test Plan and Strategy**

**2.1 Compatibility testing**

**2.1.1 List of Supported platforms and versions and devices**

* OS (9 or higher)
* Android
* Compatible with iPhone iPad, iTouch

Unsupported platform/versions should be tested for the proper exception handling

**2.2 Installation testing**

* App Stored
* Google market

Uninstalling and updates as well as upgrading to a new operation system version must be tested as well. Once the application has been installed, check launching process. The application must be loaded quickly and correctly. Closing the application should not require much time as well.

**2.3 Performance testing**

* Amount of memory required for the operation
* Amount of memory required for the stand by
* Memory leaks
* Network issues or complete loss of the carrier/mobile network or switch between networks

**2.4 Interruption and Disaster and recovery testing**

* Incoming Calls
* SMS, Chats, Videocalls, other notifications
* Locking Screen
* Removal of battery
* Out of power

2.5 **Functional testing**

The list blow covers high level test cases (check list) of functionality to be checked. Details test cases to be created and prioritized based on the points below.

2.5.1 Critical Priority tests **(must exist free version)**

* **Creation of expenses**
  + Impossibility to create without amount selected
  + Impossibility to create with **positive** amount
  + Impossible to create with more than 2 digits after comma
  + Create with max and min allowed amount (boundary values technic)
  + Possible to use calculator
  + Impossibility to create without category selected
  + Impossibility create without account selected
  + Impossibility to create without dates selected
  + Possible to create with different accounts
  + Impossible to select categories from incomes in the list of predefined categories
  + Possible to create with different predefined categories selected during creation process
  + Possible to create with preselected from the main view category
  + Possible to create with ad hoc category (check locked under free version)
  + Possible to create for different date
  + Possible to create with note
  + Possible to create without note
  + Possible to create duplicates
  + Possible to change date, amount, account and category before saving the record
  + Possible to access recurring event view
  + Possible to Cancel view
* **Creation of Incomes** 
  + Impossibility to create without amount selected
  + Impossibility to create with Impossibility to create without amount selected
  + Impossibility to create with **negative** amount
  + Impossible to create with more than 2 digits after comma
  + Create with max and min allowed amount (boundary values technic)
  + Possible to use calculator
  + Impossibility to create without category selected
  + Impossibility create without account selected
  + Impossibility to create without dates selected
  + Possible to create with different accounts
  + Impossible to select categories from expenses in the list of predefined categories
  + Possible to create with different predefined categories selected during creation process
  + Possible to create with preselected from the main view category
  + Possible to create with ad hoc category (check locked under free version)
  + Possible to create for different date
  + Possible to create with note
  + Possible to create without note
  + Possible to create duplicates
  + Possible to change date, amount, account and category before saving the record
  + Possible to access recurring event view
  + Possible to Cancel view
  + balance
  + Impossible to create with more than 2 digits after comma
  + Create with max and min allowed amount (boundary values technic)
  + Possible to use calculator
  + Impossibility to create without category selected
  + Impossibility create without account selected
  + Impossibility to create without dates selected
  + Possible to create with different accounts
  + Possible to create with different predefined categories selected during creation process
  + Possible to create with preselected from the main view category
  + Possible to create with ad hoc category (check locked under free version)
  + Possible to create for different date
  + Possible to create with note
  + Possible to create without note
  + Possible to create duplicates
  + Possible to change date, amount, account and category before saving the record
  + Possible to access recurring event view
  + Possible to Cancel view
* **Accuracy in balance calculation** 
  + History of records with positive balance
  + History of records with negative balance
  + History of records in different months
  + Possibility to see balance to quick preview
  + Possibility to see detailed report
* **Possibility to run reports**
  + Daily
  + Weekly
  + Monthly
  + Yearly
  + Specific date range
* **Backups**
  + Create data backup
  + Restore data backup
* **Export**
  + Possibility to save in CSV file
  + Check Content of CSV file after save
* **Possibility to select currency**
  + Select new currency before the expenses/income creation and create new records
  + Select new currency after the expenses/income creation and check history records are updated with new history
* **Possibility to create multiple accounts**
  + Add new Account
  + Check for impossibility to create account with blank name
  + Check for impossibility to create account with duplicated name
  + Possibility to transfer between accounts with checking of correctness to the balance
* **Possibility upgrade to the Pro version**
  + Check upgrade procedure
  + Check that locked features are unlocked now
* **Possibility to give feedback/review application**
  + Check form can be created
  + Check form is delivered

2.5.2 High Priority tests (may exist in free version, must exist in Pro)

* **Possibility add new categories**
  + Add new category with icon selected
  + Add new category without icon selected
  + Check for impossibility to create category with blank name
  + Check for impossibility to create category with duplicated name
  + Check for scenario of creation of the category with duplicated icons
* **Possibility create recurring events**
  + Check the creation with different options selected including start and end dates (optional), frequency
  + Check that after created the recurring event is added to the balance on the selected date of the event
  + Check that after created the recurring event is added to the balance after the selected period
  + Check that after created the recurring event is NOT added after the selected end date
* **Synchronization**
  + Google drive
  + Dropbox
  + Possibility to restore data on multiple devices
* **Security protection**
  + None
  + PIN Code
  + TouchID
  + FaceID

2.5.3 Medium Priority tests (good to have in Pro)

* **Possibility to select currency**
  + Test creation of multi-currencies
  + Test possibility to add expenses and incomes with one currency only
  + Test possibility to run reports for multiple currencies

2.5.4 Low Priority tests (may exist in Pro)

* **Possibility set dark theme**
* **Possibility to set first day of the week**
* **Possibility to set first day of the month**

**2.6 Usability Testing**

Usability testing is applied to check whether the application is easy to use and understand from the user’s point of view.

* + Check possible to create income/expense with the minimum number of clicks
  + Check it is always possible and easy to access actual balance
  + Check adding of the reference data etc new categories, accounts etc is done with minimum number of clicks

**2.7 Security testing**

Security testing is conducted to find the application vulnerabilities and prevent private data losses, meaning [**Synchronization and Data Protection**](#_top)from the [Functional testing](#_top) chapter must be paid additional attention

**3. Schedules for Testing**

TBD

**4. Risks and Assumptions**

**4.1 Risks**

The following risks exist while testing a mobile application:

* + availability of devices
  + new adhoc features and modification
  + changes in requirements
  + delays in schedule

**4.2 Assumptions**

* + each release is accompanied by a note with information about implemented features and their impact on the system
  + all “bugs-blockers” receive high priority
  + all the bugs found are fixed before the next software release
  + all documents are up-to-date and delivered to the testing team in time
  + all necessary equipment and tools are provided and ready for testing
  + tests schedule is reviewed in case there are any obstacles for testing activity

**5. Entry and Exit Criteria**

**5.1 Entry Criteria**

* + development phase has been finished
  + requirements have been defined and approved
  + test design and tests plan have been created
  + test environment has been set up
  + all necessary resources are available

**5.2 Exit Criteria**

* + tests cases are executed
  + the rate of tests cases passed is satisfactory (TBD)
  + failed test cases are not related to crucial functionality
  + tests results have been accepted
  + critical defects have been fixed

**6. Test Metrics**

TBD

**7. Logging Tests and Reporting**

Each found issue should be properly reported using special tools and applications (TBD)

**7.1. Test Report**

Test Report helps to summarize testing activity in a formal way. It should contain:

* + application name and overview
  + testing hardware and software environment
  + the number of tests cases executed/passed/failed

For each issue that has been encountered, the following information is provided:

* + bug description
  + bug status (open, fixed, etc.)
  + bug location
  + steps to reproduce an issue

**8. Roles and Responsibilities**

TBD

**9. Deliverables**

TBD