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| Scoala Informala de IT |
| Test Report Virtual Cards |
| Final project |

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1. Application overview

This document explains the various activities performed as part of testing the ‘Virtual Cards’ application.

Virtual Cards is a mobile app that allows transferring the loyalty cards on the phone by scanning the barcode from the card or by manually inserting the code digits. The app informs the user about the loyalty cards’ offers and coupons, sends notifications and displays route to the participating vendors. It also allows the user to create and share shopping lists.

1. Testing scope

|  |  |  |  |
| --- | --- | --- | --- |
| *Product* | *Tested build* | *Testing period* | *Deployment date* |
| Virtual cards | 5.1.4 | Dec. 2018 – Jan. 2018 | 3 Feb 2018 |

* 1. In scope:

Functional testing for the following features are in scope of testing:

* Install / Uninstall
* Create account / Log in
* Add / Remove / Edit / Read / Search card
* View offers
* Display route
* Shopping list
  1. Out of scope:

Security and Performance Testing were not done for this application.

Verification of the available offers and coupons was not tested as it involves the marketing strategy of the participating vendors.

* 1. Not tested

Compatibility testing couldn’t be performed due to lack of equipment.(ex. Windows phones).

* 1. Test environment

| ***Test Environment*** | ***Software Details*** | ***Device*** |
| --- | --- | --- |
| Production | Android 7.0 | Samsung Galaxy A5 2017 |
|  | Android 5.2.0 | LG G2 Mini |
|  | iOS 9.3 | Iphone 5 |

* 1. Testing team

| ***Name*** | ***Role*** | ***Testing time*** |
| --- | --- | --- |
| Radu Corina | Junior tester | 60h |

1. Smoke test cases metrics

| ***Functionality*** | ***Total tests*** | ***Passed*** | ***Failed*** | ***Blocked*** | ***Not run*** | ***Bug id*** |
| --- | --- | --- | --- | --- | --- | --- |
| Install | 1 | 1 | 0 | 0 | 0 |  |
| Create account | 3 | 3 | 0 | 0 | 0 |  |
| Log in | 4 | 4 | 0 | 0 | 0 |  |
| Add card | 3 | 2 | 1 | 0 | 0 | [12252](https://bugs.scoalainformala.ro/view.php?id=12252) |
| Remove card | 1 | 1 | 0 | 0 | 0 |  |
| Search | 3 | 3 | 0 | 0 | 0 |  |
| User experience | 3 | 3 | 0 | 0 | 0 |  |
| Uninstall | 1 | 1 | 0 | 0 | 0 |  |
| **Total** | **19** | **18**  **94.7%** | **1**  **5.3%** | **0** | **0** |  |

1. Defects

4.1 New defects

| ***Defect ID*** | ***Defect summary*** | ***Severity*** |
| --- | --- | --- |
| [12259](https://bugs.scoalainformala.ro/view.php?id=12259) | Log in: can’t exit the log in page while offline | major |
| [12252](https://bugs.scoalainformala.ro/view.php?id=12252) | Add virtual card form: Mandatory fields are not highlighted | normal |
| [12255](https://bugs.scoalainformala.ro/view.php?id=12255) | Add Virtual card: Birthday calendar accepts dates from the future | normal |
| [12428](https://bugs.scoalainformala.ro/view.php?id=12428) | Birthday calendar: Months are not translated | normal |
| [12432](https://bugs.scoalainformala.ro/view.php?id=12432) | Birthday calendar: can’t select 29 February for boundary years | normal |
| [12257](https://bugs.scoalainformala.ro/view.php?id=12257) | Localization: mixed language messages while offline | normal |
| [12258](https://bugs.scoalainformala.ro/view.php?id=12258) | Log in via FB: Missing error message if offline | normal |
| [12260](https://bugs.scoalainformala.ro/view.php?id=12260) | Broken layout on Deutsch version | normal |
| [12261](https://bugs.scoalainformala.ro/view.php?id=12261) | Broken layout on French version | normal |
| [12262](https://bugs.scoalainformala.ro/view.php?id=12262) | Offers and Coupons links are broken if the number is 0 | normal |
| [12264](https://bugs.scoalainformala.ro/view.php?id=12264) | Offers inconsistencies (before and after saving the card) | normal |
| [12265](https://bugs.scoalainformala.ro/view.php?id=12265) | Shopping list: typo on shared list | normal |
| [12266](https://bugs.scoalainformala.ro/view.php?id=12266) | Shopping list: no style for checked items from the shared list | normal |
| [12267](https://bugs.scoalainformala.ro/view.php?id=12267) | Display route for the stores that don't promote offers | improvement |

4.2. Defect distribution

| ***Functionality*** | ***Defects*** |
| --- | --- |
| Add virtual card: | [12252](https://bugs.scoalainformala.ro/view.php?id=12252) |
| Log in | [12258](https://bugs.scoalainformala.ro/view.php?id=12258), [12259](https://bugs.scoalainformala.ro/view.php?id=12259) |
| User experience | [12260](https://bugs.scoalainformala.ro/view.php?id=12260), [12261](https://bugs.scoalainformala.ro/view.php?id=12261), [12267](https://bugs.scoalainformala.ro/view.php?id=12267) |
| Birthday calendar | [12255](https://bugs.scoalainformala.ro/view.php?id=12255), [12432](https://bugs.scoalainformala.ro/view.php?id=12432) |
| Shopping list | [12265](https://bugs.scoalainformala.ro/view.php?id=12265), [12266](https://bugs.scoalainformala.ro/view.php?id=12266) |
| Offers | [12262](https://bugs.scoalainformala.ro/view.php?id=12262), [12264](https://bugs.scoalainformala.ro/view.php?id=12264) |
| Localization | [12257](https://bugs.scoalainformala.ro/view.php?id=12257), [12428](https://bugs.scoalainformala.ro/view.php?id=12428) |

4.3. Validated bugs

No bugs are validated

4.4. Old bugs still open

There are no old bugs still open.

1. Conclusions

19 smoke test cases were run for Virtual Cards 5.1.4, mainly on a Samsung Galaxy A5 device (Android 7.0): 18 (94.7%) passed, 1 (5.3%) failed. The failed test case is related to the mandatory fields from the ‘Add virtual card’ form.

A total number of 14 new bugs were identified, one of them was reported as major severity, the others as normal severity. Most of them were found using connectivity testing and localization testing. No bugs were validated at the moment.

The following testing types were covered: exploratory testing, smoke testing, interface testing, positive and negative testing, usability testing. In addition, other functional testing types used for mobile apps were performed: installation testing, connectivity testing, notification testing, location testing, 3rd party application integration testing (Facebook, email), localization testing and interruption testing.

Having in mind that Virtual Cards is already live, the number of new bugs and their severity is reasonable. The product is stable, intuitive, user-friendly.

More complex compatibility testing and fixing the new bugs is recommended.