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Software Project Management 2021/2022

Flashee

D2.1.3 – Acceptance Test Plan

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# Introduction

The main features of the Flashee project, a flashcard based fast-paced learning tool, will mostly be tested by unit or integration tests to eliminate most of the human labour.

Testing the design of the application, though, cannot be easily tested

# Features to be tested

* 2.2.2.10 Card Design
* 2.2.2.11 UX Design
* 2.2.2.12 Animations
* 2.2.2.13 Easy to view/access tags
* 2.2.2.14 Clearly visible difficulty of cards
* 2.2.2.15 Easy visible practice time
* FR01 – FR08

# Features not to be tested

* 2.2.2.1 Create Cards
* 2.2.2.2 Modify existing cards
* 2.2.2.3 Topic Sorting
* 2.2.2.4 Import-Export User Decks
* 2.2.2.5 Practice Mode
* 2.2.2.6 Search for certain card
* 2.2.2.7 User Stats
* 2.2.2.8 Annotations
* 2.2.2.9 Tag via difficulty

# Approach

All tests shall be executed manually by the tester, through mouse and keyboard.

These tests will be run on a machine with 64-bit architecture running Windows 10 Pro (version 21H1) and using Google Chrome (version 96.0.4664.110). Since this is light and a web application, any hardware will suffice and, because it runs offline and locally, there’s no need to worry about network.

We will also provide the tester with a deck to run all the following tests.

Since these tests are to measure the usability of the application, we will make use of Jakob Nielsen's 10 usability heuristics (which can be found [here](https://www.nngroup.com/articles/ten-usability-heuristics/)).

# Base States

Standard procedures to setup testing environment, before running some tests. Notice that these are not tests.

|  |  |
| --- | --- |
| **Name** | **BS-1: Tell the program the local directory with the cards / decks** |
| Requirements | FR-08 |
| Preconditions | The application needs to be opened. |
| Steps | 1. Select the directory where the cards / decks are 2. Click OK. |
| Expected results | 1. Verify that the shown screen is now the homepage 2. Verify that the cards showed up correctly. 3. Verify that the application gives no errors. |

# Test Cases

|  |  |
| --- | --- |
| **Name** | **TC-01: Card Design, easy to view tags, clearly visible difficulty** |
| Requirements | NFR-01 |
| Preconditions | BS-1 |
| Steps | 1. Click on a card on the homescreen 2. Ask the user what he thinks the question of the card is 3. Ask the user what he thinks the answer of the card is 4. Ask the user what he thinks the tags of the card are 5. Ask the user what he thinks the difficulty of the card is 6. Repeat the process at least two more times |
| Expected results | 1. The user guesses every field of every card correctly, showing we are respecting the heuristics #4 and #6 |

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| --- | --- |
| **Name** | **TC-02: UX Design, animations** |
| Requirements | NFR-01 |
| Preconditions | BS-1 |
| Steps | 1. Ask the user to navigate to the import deck page and comeback to the homescreen 2. Ask the user to navigate to the export deck page and comeback to the homescreen 3. Ask the user to export a deck with all the cards and comeback to the homescreen 4. Ask the user to export a deck only with the cards containing the word “world” in it and comeback to the homescreen 5. Ask the user to search for the card whose question is “Capital of Portugal” and comeback to the homescreen |
| Expected results | 1. The user follows all the steps without hesitation and intuitively, showing we are respecting the heuristics #1, #3, #4, #5, #6 and #8 |

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| --- | --- |
| **Name** | **TC-03: Easy visible practice time** |
| Requirements | NFR-01 |
| Preconditions | BS-1 |
| Steps | 1. Ask the user to check the total time of practice |
| Expected results | 1. The user reaches the page where the total time of practice is specified without hesitation and intuitively, showing we are respecting the heuristics #1, #3, #4, #5, #6 and #8 |

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| **Name** | **TC-04: Check if search is non-case sensitive** |
| Requirements | FR01 |
| Preconditions | BS-1 |
| Steps | 1. The user navigates to the search bar 2. The user writes a term with the first letter in uppercase 3. The user deletes the word again and writes the same term solely in lowercase |
| Expected results | The searched card is shown regardless of the case |

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| **Name** | **TC-05: Seeing recent statistics of user** |
| Requirements | FR02 |
| Preconditions | BS-1 |
| Steps | 1. The user navigates to the statistics section |
| Expected results | The user sees his recent statistics regarding cards for each topic/deck and his results for each quiz |

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| **Name** | **TC-06: Creating cards** |
| Requirements | FR03 |
| Preconditions | BS-1 |
| Steps | 1. The user navigates to “Create new card” Button 2. The user fills out the scaffold with the required information 3. The user confirms creation of card |
| Expected results | The card is created and available for usage |

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| **Name** | **TC-07: Modifying cards** |
| Requirements | FR04 |
| Preconditions | BS-1 |
| Steps | 1. The user searches for a card 2. The user clicks on “Edit card” 3. The user changes information 4. The user confirms changes |
| Expected results | The card is updated with the new information |

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| **Name** | **TC-08: Delete cards** |
| Requirements | FR05 |
| Preconditions | BS-1 |
| Steps | 1. The user searches for a card 2. The user click on “Delete card” 3. The user confirms deletion of card |
| Expected results | The card is deleted from storage |

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| **Name** | **TC-09: Starting quiz** |
| Requirements | FR06 |
| Preconditions | BS-1 |
| Steps | 1. The user clicks on “Quiz” Button 2. The user configures the quiz 3. The user confirms configurations and starts the quiz |
| Expected results | The quiz is started and is concluded after configured requirements are met |

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| **Name** | **TC-10: Exporting deck** |
| Requirements | FR07 |
| Preconditions | BS-1 |
| Steps | 1. The user clicks on “Export” Button 2. The user chooses cards to be exported 3. The user confirms exportation |
| Expected results | The cards are imported into a file |

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| **Name** | **TC-11: Importing decks** |
| Requirements | FR08 |
| Preconditions | BS-1 |
| Steps | 1. The user clicks on “Import” button 2. The user sees the file manager open 3. The user selects the file to be imported 4. The user confirms import of cards |
| Expected results | The cards are imported into the application |

# Traceability Matrix

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TC/ NFR/FR | NFR01 | NFR02 | NFR03 | FR01 | FR02 | FR03 | FR04 | FR05 | FR06 | FR07 | FR08 |
| TC-01 | x |  |  |  |  |  |  |  |  |  |  |
| TC-02 | x |  |  |  |  |  |  |  |  |  |  |
| TC-03 | x |  |  |  |  |  |  |  |  |  |  |
| TC-04 |  |  |  | x |  |  |  |  |  |  |  |
| TC-05 |  |  |  |  | x |  |  |  |  |  |  |
| TC-06 |  |  |  |  |  | x |  |  |  |  |  |
| TC-07 |  |  |  |  |  |  | x |  |  |  |  |
| TC-08 |  |  |  |  |  |  |  | x |  |  |  |
| TC-09 |  |  |  |  |  |  |  |  | x |  |  |
| TC-10 |  |  |  |  |  |  |  |  |  | x |  |
| TC-11 |  |  |  |  |  |  |  |  |  |  | x |