

Find The Word Mobile Application Design Document

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Introduction

The purpose of this document is to outline the design specification and outline what will be done during iterations for Find Word Application project.

Detailed Use Cases

Find the word

- Use Case UC1 : Word search
- Primary Actor: User
- Preconditions: User know how to use application e.g. user know that he/she must hover over page and wait still until picture is taken.
- Success Guarantee: Sound is played when word is found on book page.
- Main Success Scenario:
 1. System presents screen with options.
 2. User type the word.
 3. User press button "search".
 4. User hover over book pages.
 5. If the searched word is on the page the success sound is played.
 6. If word is not found on the page fail sound is played.
- Extensions failure:

Find The Word

- Use Case UC2 : Word highlight
- Primary Actor: User
- Preconditions: Word already found on book page.
- Success Guarantee:Word is highlighted on the screen.
- Preconditions: Word is already found on page.
- Main Success Scenario:
 1. The word is found on particular book page.
 2. The word is highlighted on the device screen.
- Extensions failure:

Iterations

Iteration 1

- Build android application that will take picture and perform text recognition on taken picture.
- Build android application/s that will test the free to use mobile text recognition libraries.
- After testing available free to use mobile text recognition libraries chose one that is the best for project.
- Start working on first prototype.

Iteration 2

- After choosing the text recognition library and have it working continue adding other main functionalities.
- Decide which optional/new functionalities will be added and start implementing new/optional functionalities in the project.
- Start working on application desired UI.
- Build fully working prototype.

Iteration 3

- Implement options that will enable users to search more than one word at time and highlight each searched word with different colour(users could choose which word will be highlighted with what colour)
- Give users option to search for part of the word e.g. when looking for word “book” application will find the words “boo” and “ook” that could be used on bad quality books or on handwriting text
- Add option that users can say the searched word/phrase not only type it.
- Polish the system UI.