

HIC – ASSIGNMENT n.2

Design and prototyping of an application
using a human-centered approach

Project title:

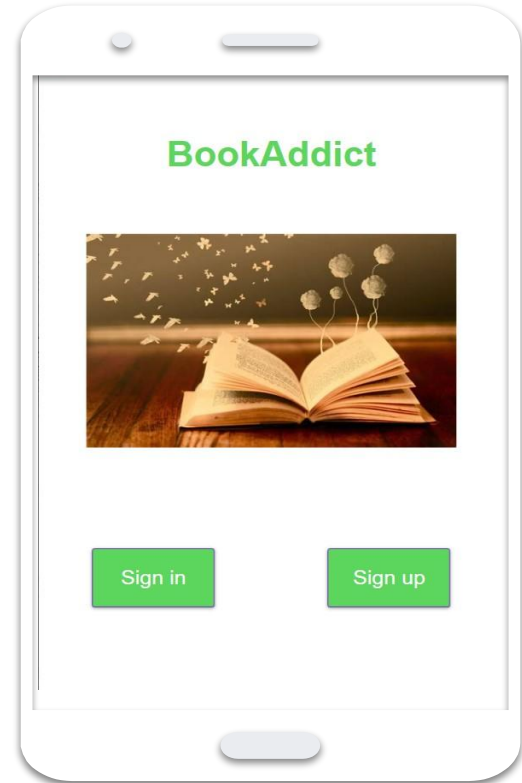
BookAddict an application for avid readers

Group:

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Lab:

P6

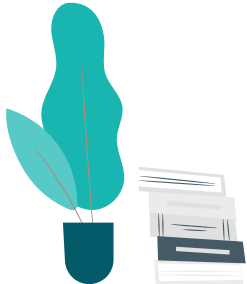


INTRODUCTION

BookAddict is an application to keep track of one's reading habits and improve the reading experience.

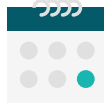
Nowadays there are a lot of series and movies trackers applications, the general public likes using them, so why not having something similar but for books?

According to a 2015 study[1], nearly one in three persons in Portugal reported not having read a book in the last 12 months! With BookAddict we want to facilitate the gain of reading habits for people of all ages and tastes.

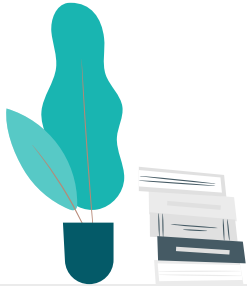


PROJECT OBJECTIVES

Goals



- Track the books you already read and in what page were you when you stopped reading a determined book
- Give and read comments about the books you are interested in



Benefits

- Portable because it can be accessed through your tablet or smartphone
- Practical as you will be able to track books just by searching them



INTERVIEW



Adult female (52 years) living in Coimbra.
Portuguese and History teacher. Lives with husband
and 2 children.

Problems found:

- Difficulty keep tracking the books already read
- Unable to mark the current page
- Finding new books



PERSONAS

| | |
|-----------------------|--|
| Persona | BookAddict user |
| Fictional Name | José Manuel |
| Job Title | Lawyer |
| Goals and Task | <ul style="list-style-type: none">• Consulting his wishlist• Track the page of the book being read• Read others opinions about some book |
| Demographics | <ul style="list-style-type: none">• 40 years old• Married• Father |
| Environment | Using his cellphone while he is on the train after work to know the page he was reading a determined book. He is an active reader and internet user. |



SCENARIOS

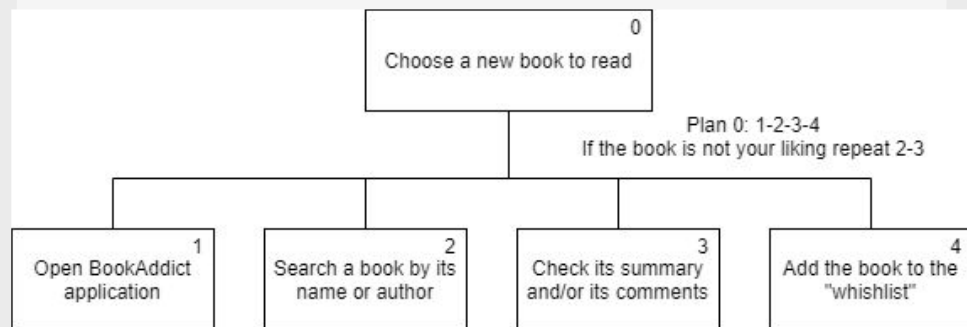
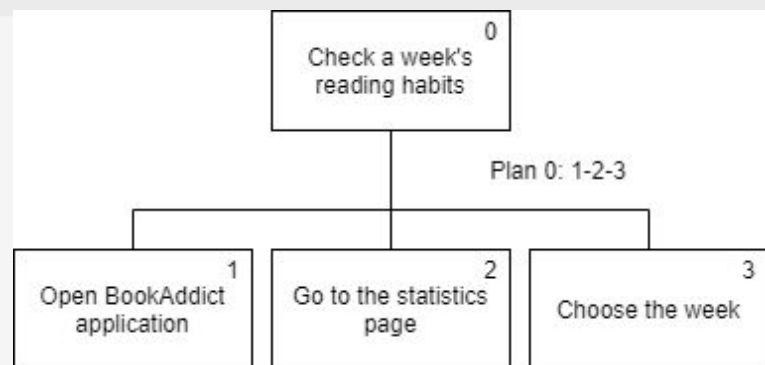
José is going home by train after a day of work. He wants to continue reading the book he was reading. He wants to know where he left his reading. To achieve his goal, he goes into the **application page tracker** and checks the current page.

José is home due to the quarantine, worried about his reading habits, he decides to start reading a new book. He is looking for opinions and ratings on this new book everyone is talking about. So that he can achieve his goal he opens the application a **searches for recommendations.**

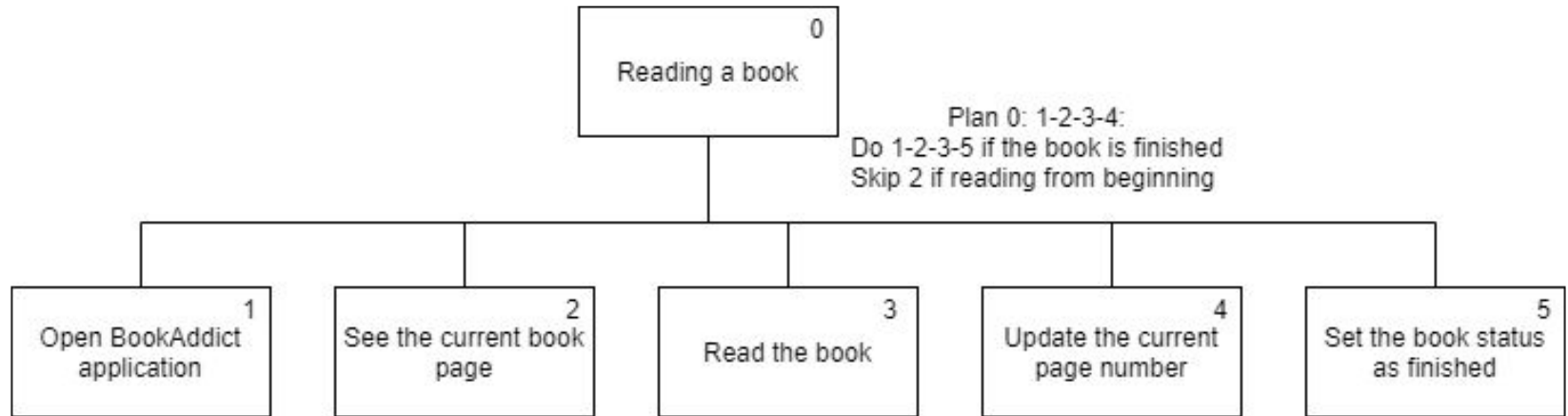


TASKS

- **Simplicity**
- **Opinions**
- **Information**



TASKS



FUNCTIONAL REQUIREMENTS

- For the books being currently read, the application should record the last page read.
- The user should be able to search books by title and/or author.
- The user can have a “wishlist”.
- The application should record weekly and monthly stats.
- The user should be able to write comments on any book or book’s pages.
- The user should be able to see public comments made by other users on any book.



NON-FUNCTIONAL REQUIREMENTS

AVAILABILITY

The application must be available all the time.

SECURITY and PRIVACY

The user must login to use the application

DATA INTEGRITY

Across all devices with the same account, the data should be the same

USABILITY

The application should be easy to learn and use

REGULATORY

The application must comply with the author's rights regulation

CAPACITY

The application should be able to store the data of a large number of users.

LOW FIDELITY PROTOTYPE

Digital prototype made using Proto.io.

A Ler ...



Capítulos 3

Páginas Lidas 244

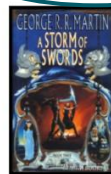
Página Atual

Atualizar

A Ler ...



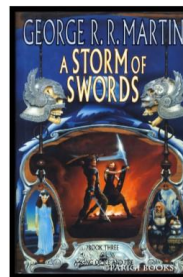
Favoritos



Terminados



George R R Martin



A Storm of Swords

George R. R. Martin

Recording the last page read.

User's "wishlist".

Search books by title and/or author.

LOW FIDELITY PROTOTYPE

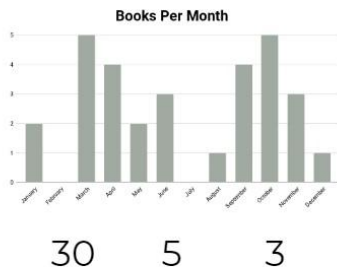
Estatísticas

Páginas lidas este mês

279

Páginas lidas esta semanas

90



Weekly and monthly stats

Comentários

Susana rocha

A história é fantástica neste momento estive a ler esse livro e eu adorei fala-se de uma amizade tão fofinha e de promessas que teve de cumprir!!!Incrível eu recomendo este livro para todas as idades

Susete

Muito agradável de ler, fala sobre uma amizade improvável e sobre promessas que não devem ser quebradas. Muito bom

Tomás

Um livro muito interessante recomendo

Comentar

See public comments made by other users on any book.

Comentários

Insira o seu comentário:

Comentário

Publicar

Write comments on any book.

LFP USER EVALUATION: USER TASKS

User evaluation tasks:

1. How many books do you find when searching for the author George R R Martin?
2. How many comments has the book "História de uma gaivota e do gato que a ensinou a voar"?
3. How many pages did the user read last month?
4. What is the number of the last page read by the user of the book "História de uma gaivota e do gato que a ensinou a voar"?
5. Add the book "Animal Farm" to the books "Reading..." and change the read pages to 123.

Scenario tasks:



Choosing a new book to read.



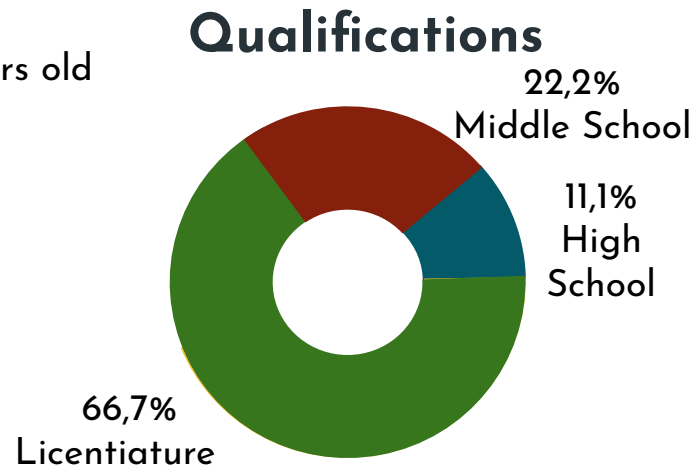
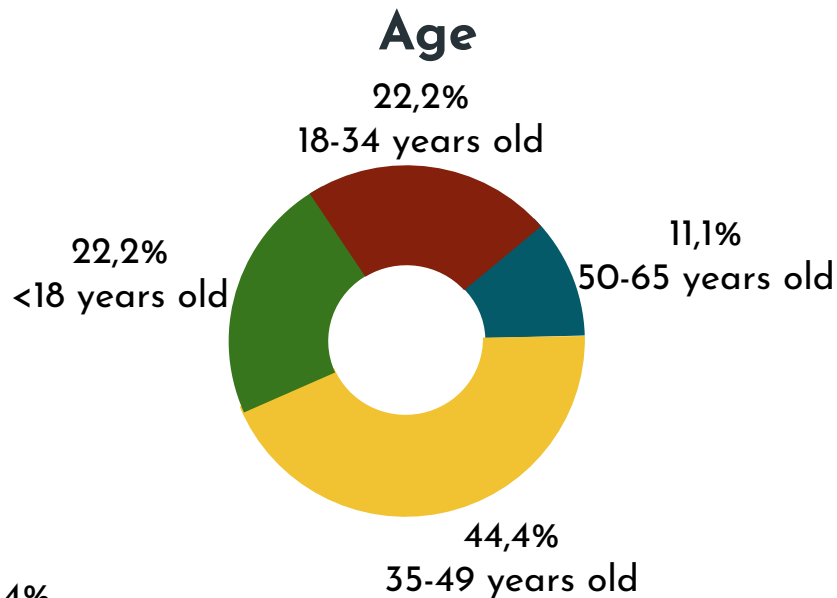
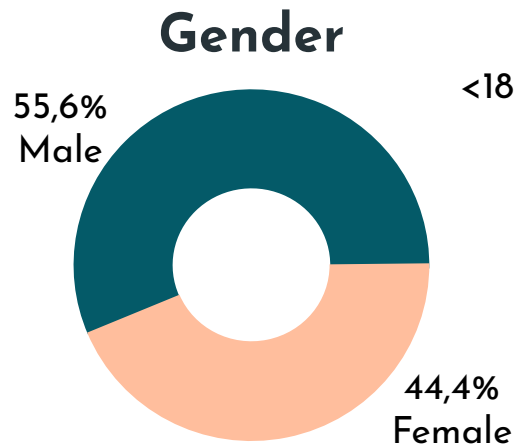
Check a week's reading habits.



Reading a book.

LFP USER EVALUATION

Volunteers Profiles^[1]



LFP USER EVALUATION

Main Results

More visible menu




Less clicks

História de uma gaivota e do
gato que a ensinou a falar



— Remove

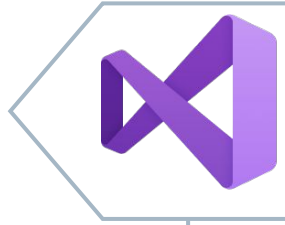
 Go to Book ...

Book written by the Chilean author Luis de Sepúlveda



PLATFORM USED

for the Functional Prototype



Visual Studio 2019

Integrated development environment from Microsoft



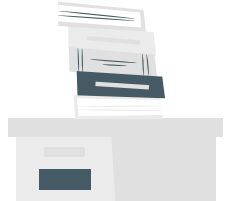
C#

Programming language developed by Microsoft that runs on the .NET Framework. C# is used to develop apps.



Material Design In XAML Toolkit

Fully open source and one of the most popular GUI libraries for WPF.

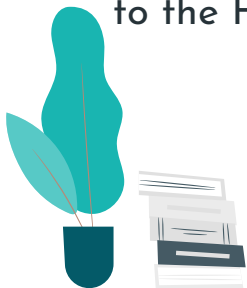


USER EVALUATION: Functional Prototype

User Tasks

The same tasks were used so that we could verify if the previous problems were fixed and find new ones in the functional prototype.

- Add “A História de uma gaivota e de um gato que a ensinou a voar” to the Favourites.



Scenario Tasks

- Choosing a new book to read.
- Check a week's reading habits.
- Reading a book.
- Add a book to the Favourites.

Problems Found

- Search bar too complex.
- Menu Items more intuitive.

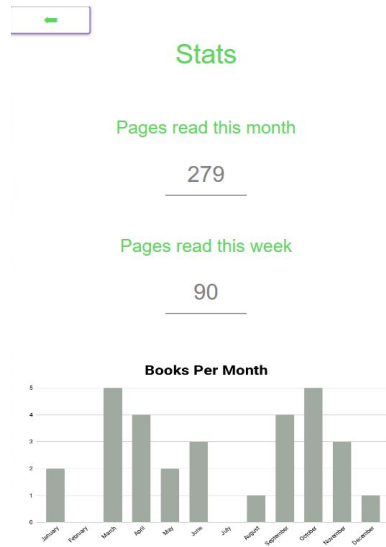


HEURISTIC EVALUATION of the Functional Prototype

| Usability problem | Heuristic | Severity Degree ^[1] |
|--|---|--------------------------------|
| Impossible to log out | User Control and Freedom | 2 |
| No option to change the user's profile image | User Control and Freedom | 3 |
| Stat symbol is not appealing | Match between system and the real world | 1 |
| Can't remove books from favourites | User Control and Freedom | 4 |

DEMO

- Track the books you already read and in what page you were when you stopped reading a certain book.
- Read and comment books you are interested in.
- Track how many pages you read the last week and month. Chart with pages read per month.



FUTURE WORK

User Database

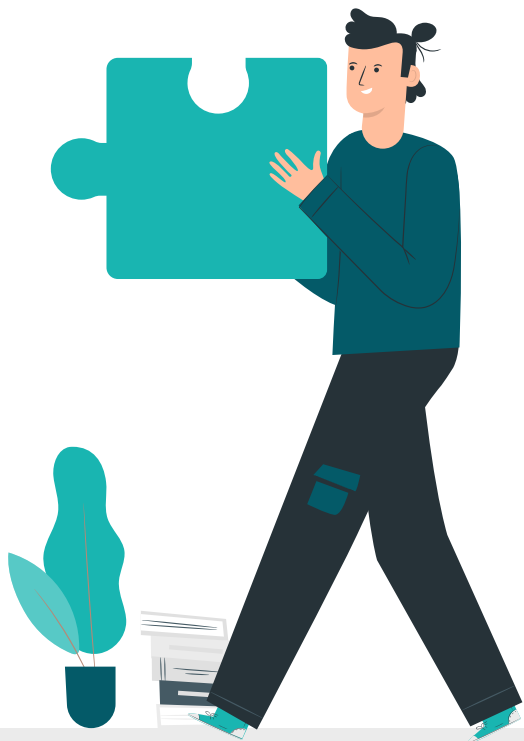
Develop a user database to save user's information such as user stats, user profile and book lists.

Multiple Languages

Make the application available in different languages.

Book API Consumption

Use an external API with more books and more information about the books.



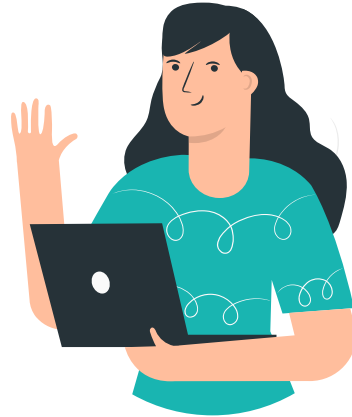
ACKNOWLEDGMENTS

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Family Oliveira
Family Martins
Friends

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Duarte Mortágua 92963
Pedro Bastos 93150



Team effort:

João Laranjo 1/3
Margarida Martins 1/3
Tiago Oliveira 1/3



RESOURCES

Project Repository

GitHub Repository:

https://github.com/margaridasmartins/BookAdict_IHC

Usability Test

Google Forms:

https://docs.google.com/forms/d/e/1FAIpQLSexEmCvEt1a7tCM261LMX_Wt7Vbyiy7IKZDWcPDLDwhdXCCHQ/viewform

LFPrototype

ProtoIO:

<https://drive.google.com/file/d/1R3JTZtyXi-Sq6OvmReZQ9eZwf--PCxoj/view?usp=sharing>

Tests and Results

Usability tests results:

<https://docs.google.com/presentation/d/1cxHthFrwLaFue0HsvQf1m9y4P5FjDLcOVLiwZMQ6yvE/edit?usp=sharing>

Heuristic Evaluation:

<https://drive.google.com/file/d/1UFqWupIfD-sLKAulNHOfWSQPKxuIJ6Mh/view?usp=sharing>

Previous Presentations

Requirements Analysis:

https://docs.google.com/presentation/d/1Ea-jszZWYln_l2ppzSwq_MlkeYcrCOAJiFrD5_ZN1vo/edit?usp=sharing

External Libraries

Material Design:

<http://materialdesigninxml.net/>



QUESTIONS?



