HCI - Assignment n.2

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

Final presentation and demo

Project Title: MusicHub

Group: João Gameiro, Juan Lessa, Pedro Abreu

Lab Class: P1

Introduction

MusicHub

- Music plays a very important role in people's lives, and it can be though for musicians to share their music.
- Therefore, we aim to create an app the helps musicians share their music and most importantly connect with each other.
- We also intend to help musicians find places to perform which can be a tough task to perform.

Project Objectives

Insert project title here

High-level goals

- Develop a prototype for a system that allows musicians to interact with each other and share their music with other users.
- Allow non-musicians to follow closely their favorite bands and artists.
- Allow musicians and establishment owners to interact with each other.

Expected outcome

• We aim for a prototype application with a minimalist and intuitive interface



Personas

Musicians

 People who wish to share their music and find places to perform and other musicians to interact with



Establishment Owners

 People who search for artist to perform in their establishments/events.

Music Fans

- People who wish to follow their favorite artists and discover new music.
- People who want to discover nearby performances

Persona 1

Persona Establishment owner

Name, Age, Gender João Batista, 52 y.o., Male

Job Bar Manager at Praça do Peixe

Background/ He wants to have weekly music shows hosted at his bar

Problem -> He struggles to find musicians/artists to weekly perform in his bar

-> He struggles to exchange contact information with artists

Needs A system/platform that brings together upcoming musicians and facilitate contact exchange



Persona 2

Persona Band Leader

Name, Age, Gender Ana, 26 y.o., Female

Job Full-time Musician (Singer)

Background/ Ana's band is going on tour this summer.

They want to find another band to tour with them and open all shows.

Problem -> Ana doesn't know any musicians in

her village

->She doesn't know how to find bands

to tour with them

Needs A way to search and get in touch with

other musicians



Persona 3

Persona Singer beginning of her career

Name, Age, Gender Luiza 19 y.o., Female

Musician

Job Luiza is a young singer building her career,

she lives in Porto, makes presentations in

squares, tourist centers and nearby cities.

Background/ -> Luiza doesn't know owners of

Environment establishments interested in hiring artists.

Problem -> Luiza doesn't have an efficient way to

share her work

Needs A way to find and contact owners

of commercial establishments, show her

performances and schedule presentations



Scenarios

1 Approach an artist to perform on next week

João Batista wants to contact a musician, that as already played in his bar, to perform again next week:

- -> Without the platform, he would need to search for old messages (sms, email, etc...) to contact the artist.
- -> This way, with few a clicks, he can find past musicians/artists who he was related to

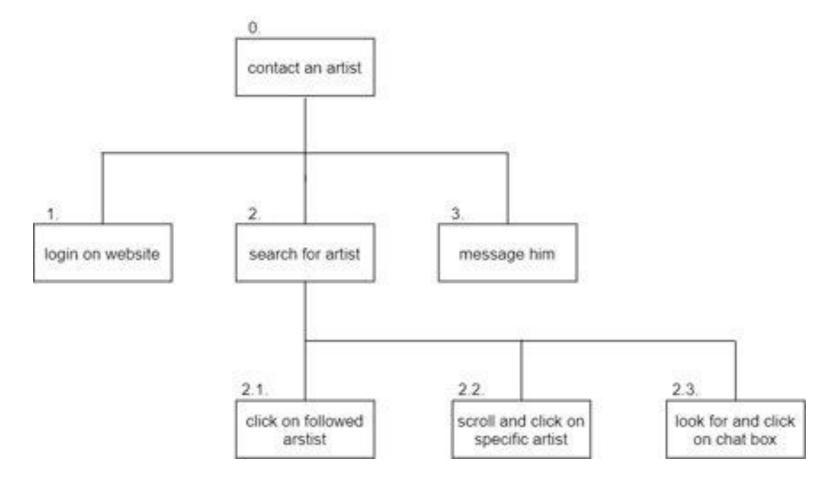
Joao must enter website

Get in contact with him



Tasks

1 Approach an artist to perform on next week



Scenarios

2 Approach a band open tour shows

A wishes to find a band to open all the shows of her band's tour.

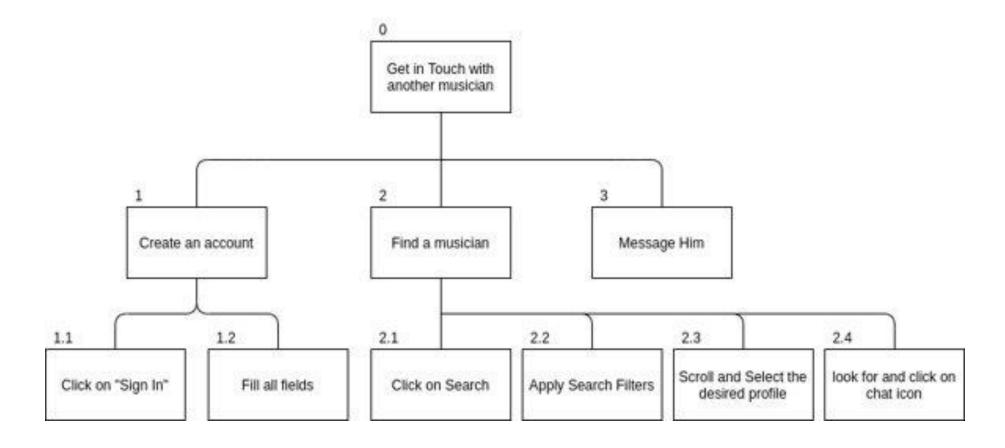
- Very hard to accomplish without the app because it implies that Ana must already have contact of other musicians or showbiz people.
- With the application, task becomes simpler, and the offer is larger

Ana creates an Account Contacts with him/them

Searches for a band/musician

Tasks

2 Approach a band open tour shows



Scenarios

3 Publicize Presentations

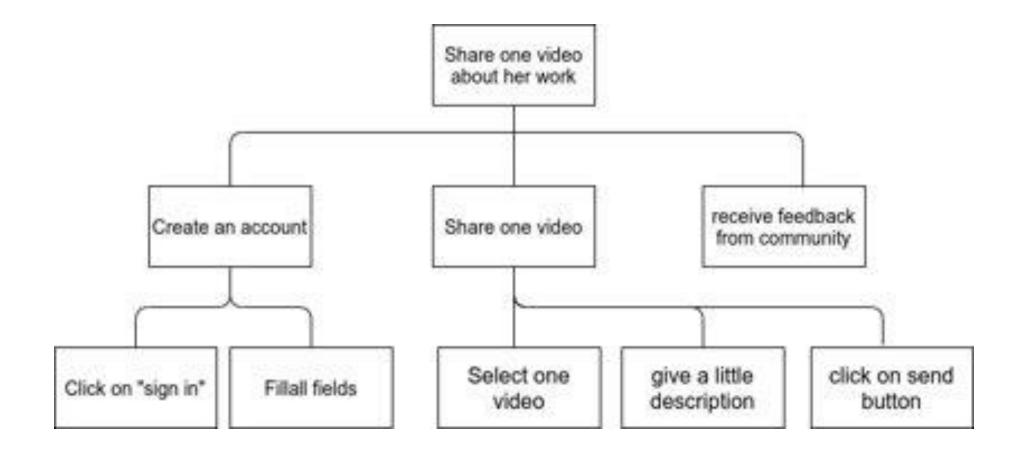
Luiza wants one place to publish videos and audios about her last presentation:

-> This is an essential feature for music-oriented sharing platforms

Share her presentation videos

Tasks

3 Publicize Presentations



Requirements

Non-functional requirements

- Application must be persistent
- Design must be simplistic and intuitive
- Persistent and secure database
- Should have help documentation

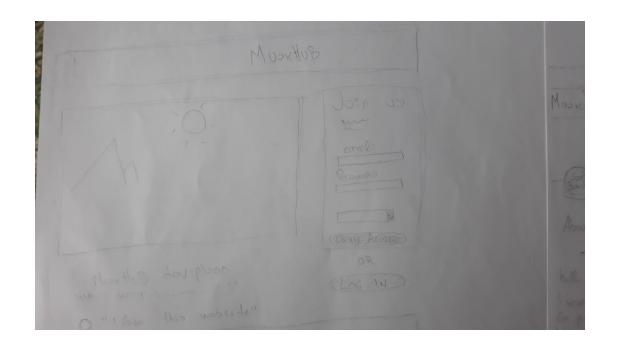
Functional Requirements

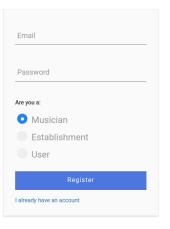
- Musicians and Establishment owners should be able to text each other directly
- Every user should be able to search for musicians and establishments by location
- Should be possible to follow musicians, check out their content and the events which they will perform
- There should be security and blocking mechanisms to prevent harassment situations



MusicHub

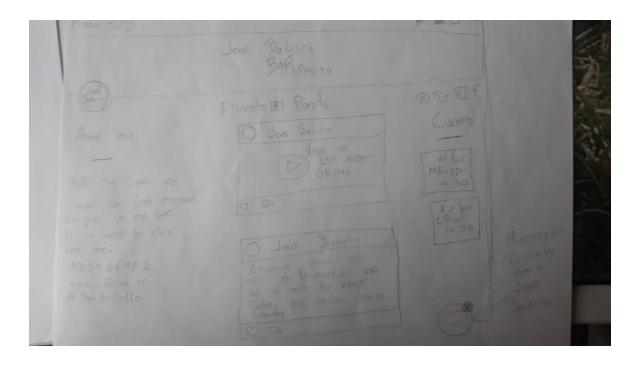
• The low fidelity developed was developed in paper

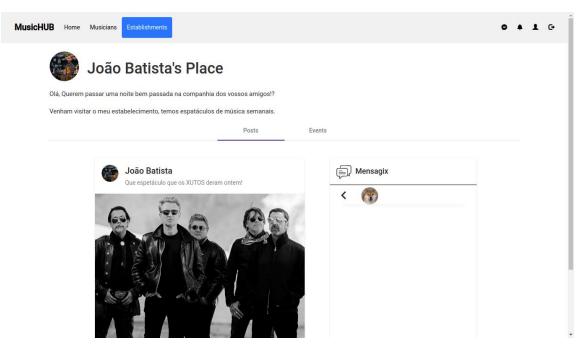




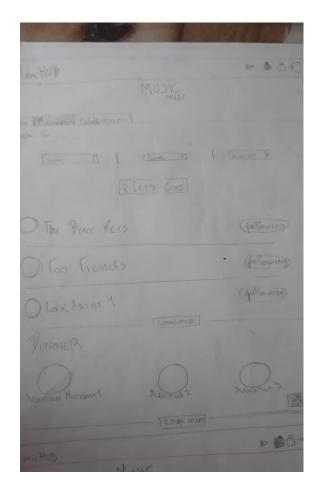
The best music network place

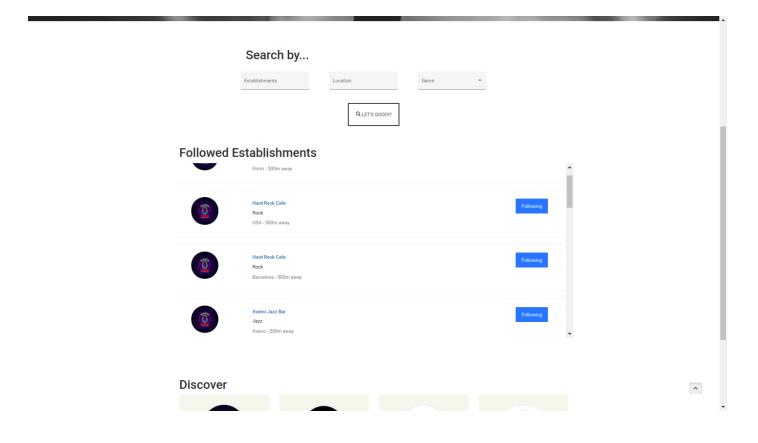
MusicHub



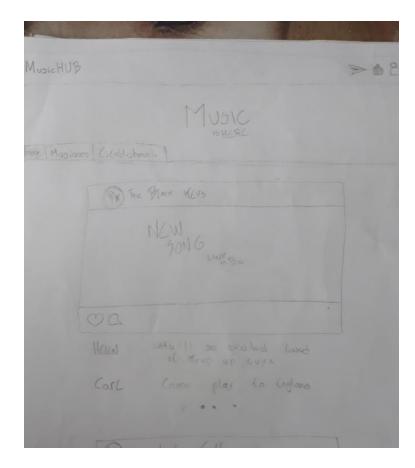


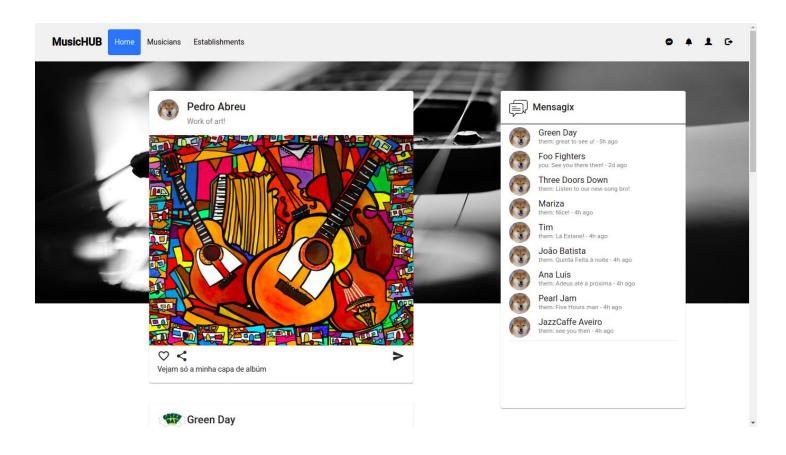
MusicHub





MusicHub





LFP User Evaluation

MusicHub



- On the paper prototype the main goal was to evaluate the 3 personas and the scenarios developed for them therefor:
 - Tasks for 3 personas:
 - Message a specific musician/establishment
 - Search for a specific musician/establishment
 - Add a new post
 - Aditional evaluated tasks:
 - Follow a musician/establishment
 - Put like on a post
- 7 users (all male, one musician)
- Main Results
 - Messaging musicians or establishments should imply less clicks.
 - Musicians and establishments profile page should be more directed to what the user want's to do with diferent "pages" for diferent actions.

Platform Used for the functional prototype

MusicHub

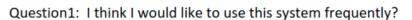
- Angular
- We selected this tecnology because it was the proposed solution
- Web was preferred over mobile because the actions and tasks to perform on it would fit better on a web application.





- A functional prototype was developed in Angular:
 - The main goal was to evaluate it's usability
 - For this evaluation we decided to tackle the first two personas primarily
 - After each task completed the users specified how hard it was for them to complete the task (1 - Really Easy, 5 - Really Hard)

 After all tasks completed the users respond to a set of ten questions (1 -> Totally Agree, 5-> Totally Disagree)



Question2: I found the system unnecessary complex?

Question3: I thought the system was easy to use?

Question4: I think I would need technically support to use this system?

Question5: I found the various functions in this system well integrated?

Question6: I thought there was too much inconsistency in the system?

Question7: I would imagine people would learn to use this system very quickly?

Question8: I found the system very cumbersome to use?

Question9: I felt very confident using the system?

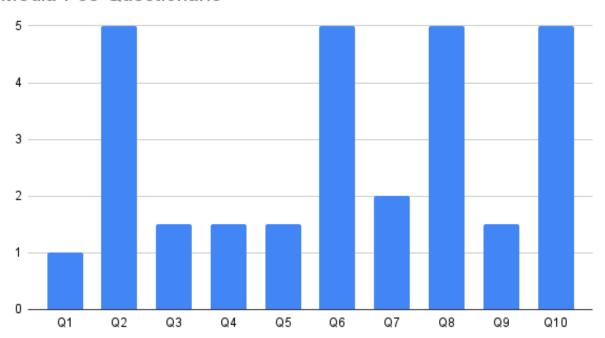
Question 10: I needed to learn a lot of things before I could get going with this system?



- 8 Tasks that were evaluated:
 - ☐ Login/Register
 - ☐ Message the musicians 'Foo Fighters'
 - ☐ Search by the musician Juan Lessa applying some search filters (Pop, Brasil)
 - ☐ Search by establishment 'João Batista Place' applying some search filters (Rock, Aveiro)
 - ☐ Go to musician Juan Lessa profile and try to obtain some tickets for concert 'Juan Lessa Live Galeria Cabaret'
 - ☐ Go to musician Juan Lessa profile and try lo listen to his new song 'Another Morning'
 - ☐ Check my notifications
 - ☐ Put like on a post from musician Juan Lessa
- The user evaluation included 6 participants
 - 4 male and 2 female
 - From those 6, 4 we're musicians
 - From those 6, 4 we re experienced social network users

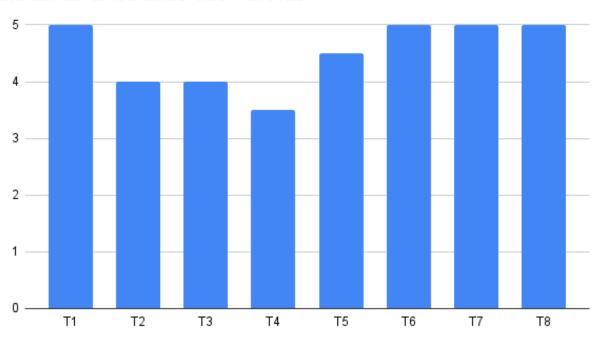
aret'

Média Pós Questionário



Média das respostas dadas a cada uma das questões do questionário (1 - Totally Agree > 5 – Totally disagree)

Média da dificuldade das Tarefas



Média das respostas dadas a cada uma das tarefas (1 - Really Easy > 5 - Really Hard)

- Results (specific tips given):
 - Language only in english can be a problem
 - Fonts for the website must be choosen carefully
 - Spotify and Youtube buttons size should be bigger
 - Buy tickets button should be more highlighted



Heuristic Evaluation

Heurísticas	Problema	JG	JL	PA	Mediana
1	JG - Botão de <u>follow</u> de um músico/estabelecimento não tem qualquer tipo de responsividade ao <u>click</u> na secção <u>followed artists/establishments</u>	3	2	2	2
	PA – Na secção <u>Home</u> , logo após o login, ao <u>scrollar</u> para baixo para ver + <u>posts</u> . A página fica um pouco vazia, podendo o utilizador "perder-se" no <u>webiste</u>	1	3	2	2
2	PA – <u>secalhar</u> a palavra <u>establishments</u> é um pouco pesada, poderia ser " <u>places</u> " ou " <u>caffes</u> ", para se aproximar mais da linguagem do dia a dia	0	0	1	0
3	JG – Carregar no botão de <u>logout</u> sem querer sai logo da conta PA – [Solução] Pedir uma confirmação antes de o utilizador poder dar log out	3	2	2	2
	JG - Função do botão de mensagem num <u>post</u> é pouco clara	3	3	3	3
4	JG – Redundância no messagix e símbolo do messenger na barra de tarefas	0	1	1	1
	PA – Na página dos músicos e estabelecimentos, a barra de pesquisa é tripla, seria melhor ser <u>única(para</u> as 3 características) mais discreta e dar mais destaque aos músicos/estabelecimentos que o utilizador segue	1	1	3	1
5					
ů.	PA – para o utilizador ir à página de perfil de um determinado músico, tem que ir à página dos músicos, procurar por ele e clicar em cima [Solução] o cabeçalho/imagem dos post e dos contactos da chatbox levar diretamente à página de perfil do músico -> SOLVED	3	2	3	3
8	JG – Chat de messenger na página de perfil não deveria ter todos os contactos, mas apenas o do músico/estabelecimento	2	3	3	3
9	JG – Pesquisa poderia apresentar um pop yp a indicar que tal aconteceu -> SOLVED	1	1	2	1
10	JG - Não existe documentação de ajuda	3	3	3	3
	PA – Na secção de introduzir um novo Post/Evento/Musica, não diz em lado nenhum, as dimensões máximas da imagem, formatos de imagem suportados, limite de palavras num Post	3	1	3	3



Demo

MusicHub



Future work

- Build a strong e persistent backend
- Add new functionalities
- Improve frontend based on user feedback

Test everything with new user tests

Effort of each group member

- João Gameiro 33%
- Juan Lessa 33%
- Pedro Abreu 33%



Acknowledgments

 We would like to acknowledge all the participants that participated on the two tests of our low fidelity prototype and of the functional prototype

Bibliography