



YourFM



Human-Computer Interaction
23th June 2022
P4 Class

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LFP User Evaluation

User Feedback from LFP

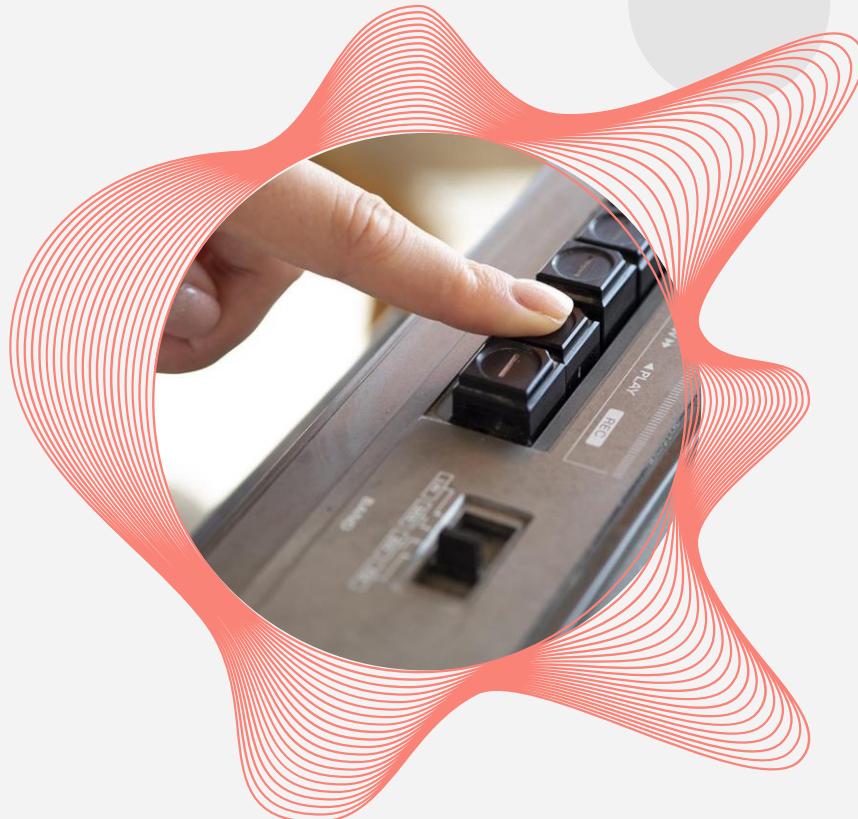
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Functional Prototype

Brief presentation of FP and demo

01 Introduction

- Streaming services dominate the entertainment market nowadays.
- The radio streaming market is weak compared to other media.
- Spotify and SoundCloud control the market but don't offer the user a radio-based experience, focusing mainly on the labels and musicians, leaving radio content behind.



02 Project Objectives : Competition

Apple Music

Search

Sign In

Radio

Apple Music 1
The new music that matters.

Apple Music Hits
Songs you know and love.

Apple Music Country
Where it sounds like home.

THE APPLE MUSIC 1 LIST
LIVE - 10 - 11PM
The Apple Music 1 List
Hear our current obsessions and new discoveries making waves.

Easy Hits of the '80s
LIVE - 10 - 11PM
Smooth synths and iconic artists to keep you cruisin'.

THE WARD GUENTHER SHOW
LIVE - 9 - 11PM
The Ward Guenther Show
Songs from the Luke Combs Whiskey Jam Tailgate party.

Local Broadcasters

npr NPR News and Culture
Stories that inform, inspire, and entertain.

KIIS-FM 102.7 KIIS-FM Los Angeles
iHeartRadio

KDFC KDFC Tuneln

dublab dublab Tuneln

See All

02 Project Objectives : Competition

The screenshot shows the Apple Music website interface. A large red circle highlights the 'Radio' section in the top navigation bar. Below this, another red circle highlights the 'Radio' button in the main content area, which is currently active. The main content area displays the 'Radio' section with options to 'Listen Now', 'Browse', and 'Radio'. To the right, there is a preview for 'The Ward Guenther Show' and a section for 'Local Broadcasters' featuring NPR News and Culture, KIIS-FM Los Angeles, KDFC Tuneln, and dublab.

Apple Music

Sign In

Radio

Listen Now

Browse

Radio

Open iTunes ↗

Try Beta

Apple Music 1
The new music that matters.

LIVE - 10 - 11PM
The Apple Music 1 List
Hear our current obsessions and new discoveries made just for you.

THE APPLE MUSIC 1 LIST

Listen Now

Browse

Radio

Local Broadcasters

npr™ NPR News and Culture
Stories that inform, inspire, and entertain.

KIIS-FM 102.7 KIIS-FM Los Angeles iHeartRadio

KDFC Tuneln

dublab

See All

6

02 Project Objectives

- ❑ The main objective of this project is to give to Radio Stations the space in the digital world that they don't have been lacking since the Web boom
- ❑ The app will merge the live transmission nature of radio and the on-demand features of digital apps.

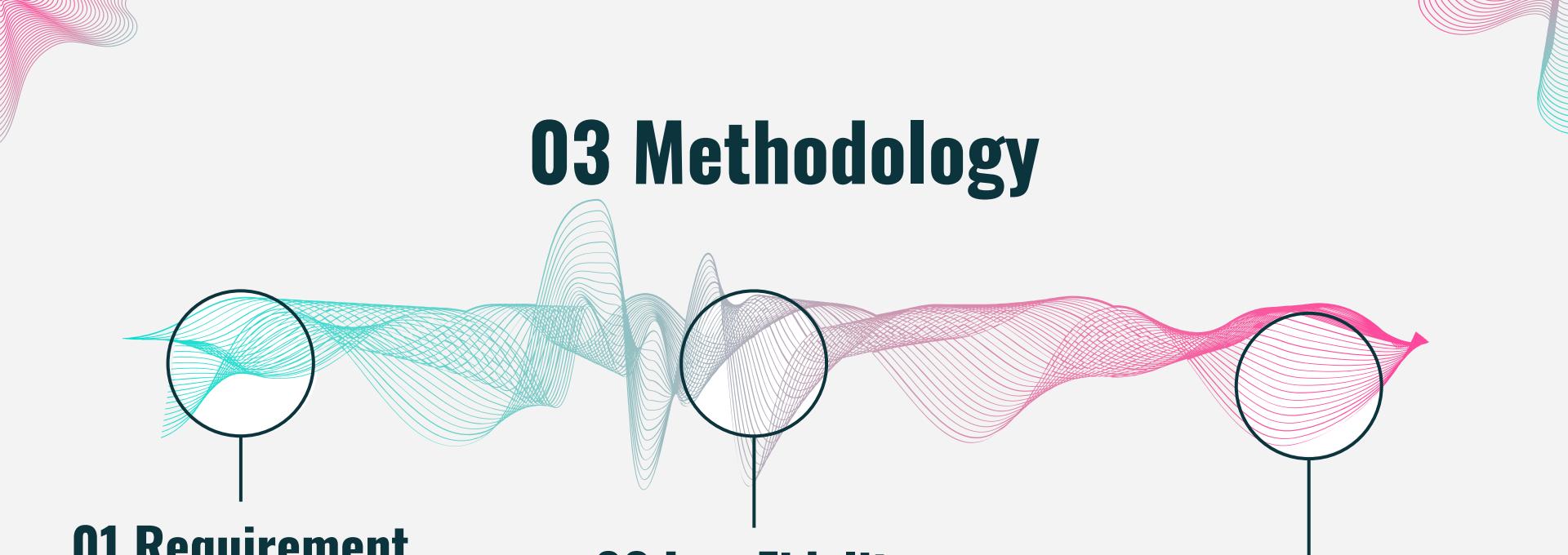


02 Project Objectives

- ❑ It will offer a profile-based solution where all the radios have their own (feature not implemented in the mainstream services).
- ❑ The UI is planned to serve the main smart devices via web application.



03 Methodology



01 Requirement Analysis

Personas

Scenarios

Tasks

02 Low Fidelity Prototype

Paper Prototype

Proto.io Prototype

Usability Testing

03 Functional Prototype

ReactJS

Usability Testing

04 Personas

YourFM



4. Personas



Camila Silva

Age: 18

Gender: Female

Status: Single

Location: Aveiro

Job: Languages, Literatures and Cultures



- ○ ○ ○
- ○ ○ ○
- ○ ○ ○

Environment

She is a third-year student at University of Aveiro. She likes to study listening to her radio shows, but the applications that she uses to do it are focused on music-based users.



05

Scenarios

YourFM

X

05 Scenarios



Camila wants to keep track of her radio shows

- Camila wants to keep track of her radio shows while studying.
- For this, she opens YourFM and adds her favourite show "Extremamente Desagradável" to her favorites' playlist.



05 Scenarios

Camila wants to listen a show's episodes when she finishes her project

- Camila is working on her one of her projects but when she finishes it, she wants to listen to the episodes she won't have time to listen.
- Camila will add those episodes to her Watch Later list.



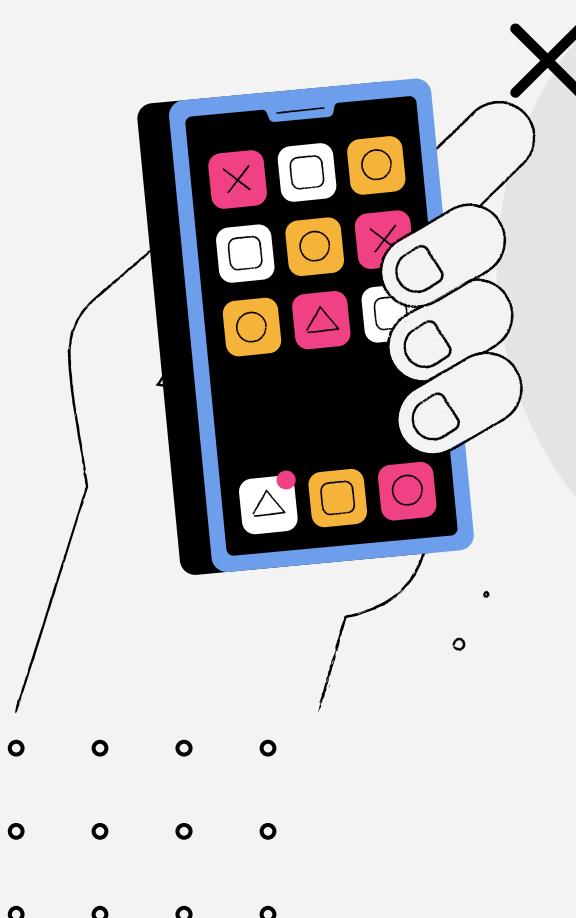
05 Scenarios



Camila likes to listen to the radio on her way to university

- On the way to university, Camila likes to listen to RFM's live transmission
- She just needs to press the "start listening" button, and the chat appears on the screen where she can intervene.





06 Tasks

06 Tasks



Search for details about a show

1. Select show

2. Read details



06 Tasks



Check if you follow a Station, listen to it live and join the chat

1. Select Station

2. Check if button follow select

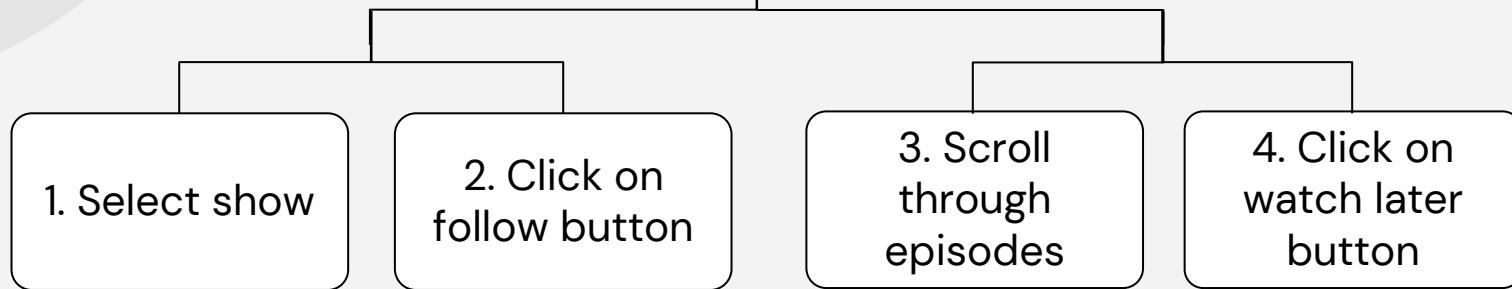
3. Click on the Play button

4. Open chat

06 Tasks



Follow a show and add an episode to your watch later list



06 Tasks



Remove an episode from your Favourites

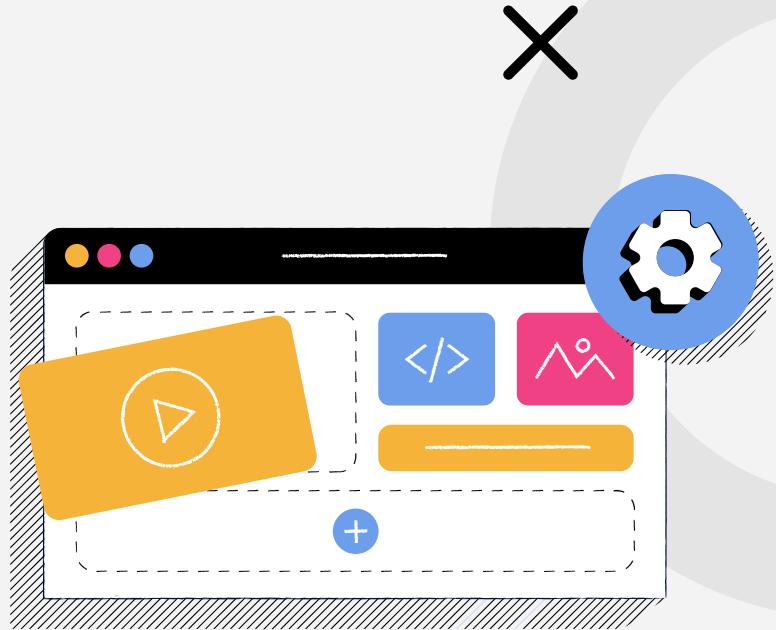
1. Open the Show page
2. Scroll through the episodes
3. Select the desired episode
4. Uncheck Like button



07

Requirements

You can enter a subtitle here
in case you need it



- ○ ○ ○
- ○ ○ ○
- ○ ○ ○



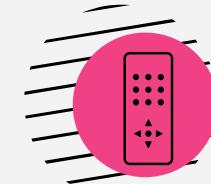
Non-Functional Requirements



Must be available 24/7

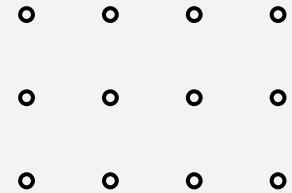


Must be easy to learn
how to use it



User must control all
their data and
preferences





Functional Requirements



Follow Radio Stations



Write in Radio chat



Add program to a
playlist

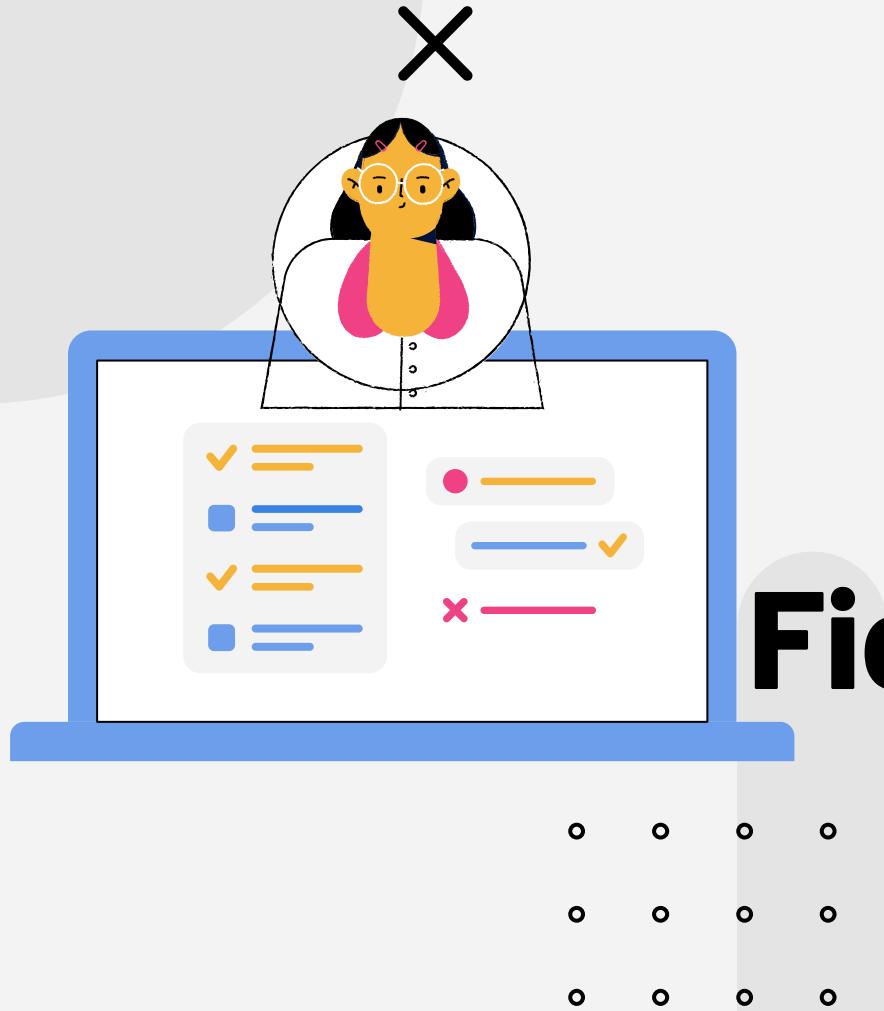


Search in the Genres



08

Low Fidelity Prototype



Low Fidelity Prototype

The image shows a low-fidelity prototype of a mobile application interface for a radio station. The left sidebar contains navigation links: Home, Search, Library, Rádio Com..., RFM, and CidadeFM. The main content area is divided into three sections:

- For You:** Displays four cards for podcasts: "Informação Privilegiada" (hosted by Bob Boss), "Stand Up Na Hora" (hosted by Stand Up), "Wi-fi da RFM" (hosted by RFM), and another "Wi-fi da RFM" card.
- Your Radios:** Displays four radio station logos: RFM (SÓ GRANDES MÚSICAS), Radio Comercial (red circle logo), CidadeFM (blue square logo with 'cdd fm'), and m80 rádio.
- Keep Watching:** Displays four video thumbnail cards: "Informação Privilegiada" (hosted by Bob Boss), "Stand Up Na Hora" (hosted by Stand Up), "Wi-fi da RFM" (hosted by RFM), and another "Wi-fi da RFM" card.

At the bottom, there is a player bar with a play button, a volume icon, a progress bar labeled "PLAYING:", and the text "YourFM™".

Low Fidelity Prototype

The image shows a low-fidelity prototype of a radio station website. At the top, there is a banner for the show "CAFÉ DA MANHÃ" from Monday to Friday, 07h-10h, featuring five hosts smiling. Below the banner, the main navigation bar includes icons for Home, Search, Popular Shows, and a sidebar with station logos for Rádio Comercial, CDM, and RFM. The "Popular Shows" section displays four thumbnails: "Informação Privilegiada" (hosted by Pedro Fernandes), "Stand Up Na Hora" (hosted by Zé Tó), "Wi-Fi da RFM" (hosted by Amílcar do Talho), and another "Wi-Fi da RFM" thumbnail. On the right side, there is a "Radio Chat" section with a message from Pedro Fernandes about a car key and another from Zé Tó asking if anyone has seen his car keys. A large orange play button icon is overlaid on the right side of the screen. At the bottom, a progress bar indicates the song "PLAYING: Rádio Comercial – Só grandes músicas" is currently playing.

CAFÉ DA MANHÃ
DE SEG A SEX
07H-10H

Rádio Comercial

Live Now: Café da Manhã

Following

Popular Shows

Informação Privilegiada

Stand Up Na Hora

Wi-Fi da RFM

Wi-Fi da RFM

Radio Chat

Welcome to the chat room!

Pedro Fernandes : Estás a ouvir a RFM, aproveita a viagem!
Zé Tó : Alguém viu as minhas chaves do carro?
Amílcar do Talho : Nunca mais metem o meu som...

Send a message

PLAYING: Rádio Comercial – Só grandes músicas

YourFM™

Low Fidelity Prototype

The image shows a screenshot of a web-based media player interface. At the top, there's a large video thumbnail of a woman with glasses smiling, with a play button icon in the bottom right corner. Below the thumbnail, the title "Extremamente Desagrável" is displayed in a large, bold font. To the right of the title is a "Follow" button. On the left side of the main content area, there's a sidebar with various social media icons (Facebook, Instagram, Twitter, YouTube, etc.) and a "Comedy" genre indicator. The main content area also lists "Episodes" with their respective thumbnails, titles, and descriptions. At the very bottom, there's a navigation bar with a play button, volume control, and a progress bar indicating "PLAYING: Rádio Comercial - Só grandes músicas".

A rubrica de humor de "As Três da Manhã" está a cargo de Joana Marques, que se esforça sempre por ser "extremamente desagradável", agora na Renascença. De segunda a sexta, às 8h15 com repetição às 16h20, 20h30 e às 6h45.

Comedy

Episodes

22/04/2022
Rúben Semedo é Alerta CM
Joana Marques fala-nos da mais recente polémica envolvendo Rúben Semedo.
14 min.

21/04/2022
O Último a Trair
Joana Marques fala-nos da atribulada lua de mel de Tiago e Dina, participantes do "Casados à primeira vista".
14 min.

PLAYING: Rádio Comercial - Só grandes músicas

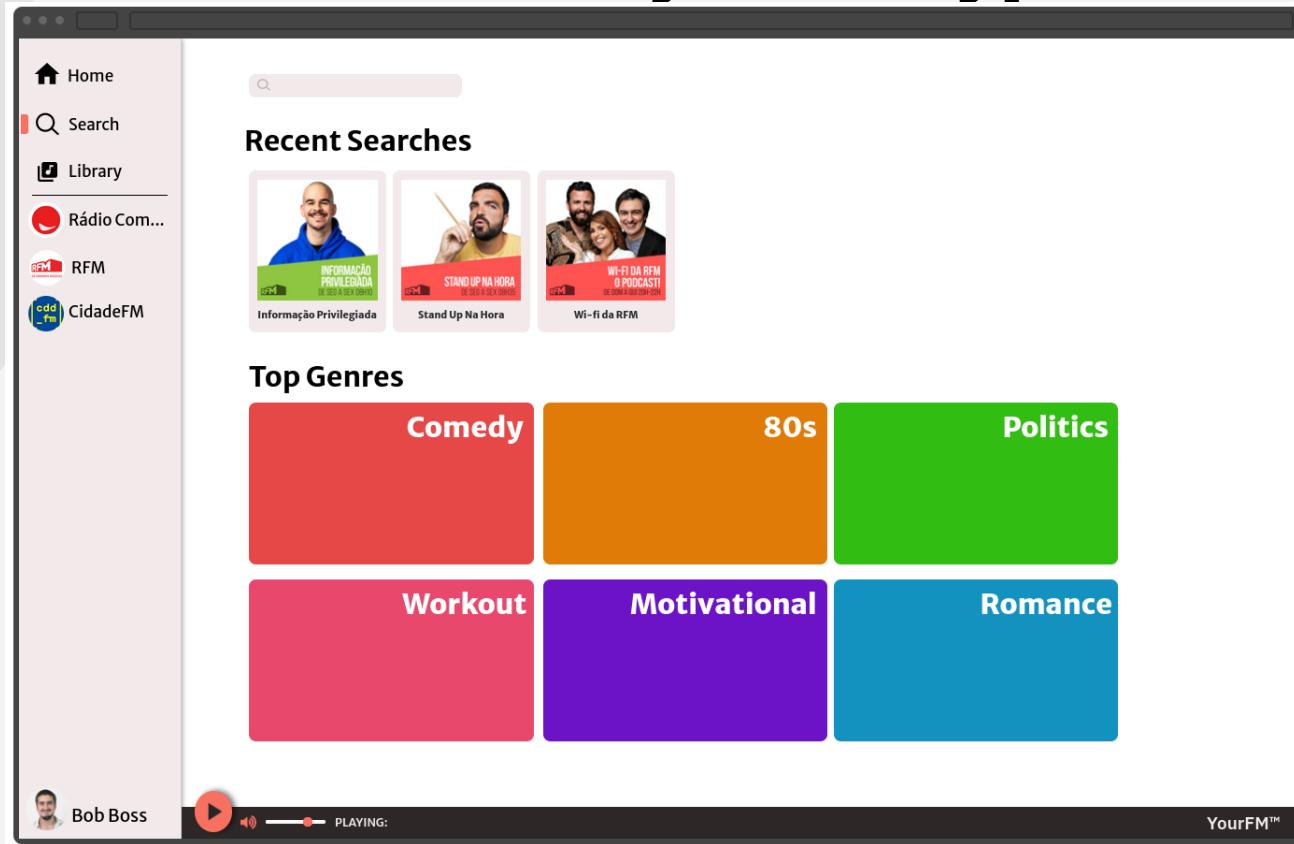
YourFM™

Low Fidelity Prototype

The image displays a low-fidelity prototype of a radio station's digital interface. On the left, a vertical sidebar contains navigation links: Home, Search, Library, Rádio Com..., RFM, and CidadeFM. The main content area is titled "All" and features a grid of 18 show cards arranged in three rows of six. Each card includes a thumbnail image, the show name, and a brief description. The shows are categorized into three groups: CidadeFM (top row), M80 (middle row), and RFM (bottom row). A footer bar at the bottom shows a user profile ("Bob Boss"), playback controls (play button, volume, and progress bar labeled "PLAYING:"), and the text "YourFM™".

Category	Show Name	Description
CidadeFM	Informação Privilegiada	INFORMAÇÃO PRIVILEGIADA DE 08 ÀS 10 HORAS
	Stand Up Na Hora	STAND UP NA HORA DE 10 ÀS 12 HORAS
	Wi-fi da RFM	WI-FI DA RFM O PODCAST! DE 12 ÀS 13 HORAS
M80	[cdd - fm]	CidadeFM
	m80 radio	m80 radio
	Informação Privilegiada	INFORMAÇÃO PRIVILEGIADA DE 08 ÀS 10 HORAS
RFM	Stand Up Na Hora	STAND UP NA HORA DE 10 ÀS 12 HORAS
	Wi-fi da RFM	WI-FI DA RFM O PODCAST! DE 12 ÀS 13 HORAS
	Wi-fi da RFM	WI-FI DA RFM O PODCAST! DE 12 ÀS 13 HORAS
RFM	Informação Privilegiada	INFORMAÇÃO PRIVILEGIADA DE 08 ÀS 10 HORAS
	Stand Up Na Hora	STAND UP NA HORA DE 10 ÀS 12 HORAS
	Wi-fi da RFM	WI-FI DA RFM O PODCAST! DE 12 ÀS 13 HORAS
Radio Comercial	RFM	SÓ GRANDES MÚSICAS.
	Radio Comercial	RÁDIO COMERCIAL
	Radio Comercial	RÁDIO COMERCIAL

Low Fidelity Prototype



A low-fidelity prototype of a radio station website interface. The left sidebar contains navigation links: Home, Search, Library, Rádio Com..., RFM, and CidadeFM. The main content area features a search bar at the top. Below it is a section titled "Recent Searches" showing three thumbnail cards: "Informação Privilegiada" (hosted by Bob Boss), "Stand Up Na Hora" (hosted by Stand Up), and "Wi-fi da RFM" (hosted by RFM). Underneath this is a section titled "Top Genres" with six colored boxes arranged in two rows of three: Comedy (red), 80s (orange), Politics (green) in the top row; and Workout (pink), Motivational (purple), Romance (blue) in the bottom row. At the bottom of the page, there is a player bar showing a portrait of "Bob Boss", a play button, volume controls, and a progress bar labeled "PLAYING". The footer of the page reads "YourFM™".

09 LFP

User Evaluation

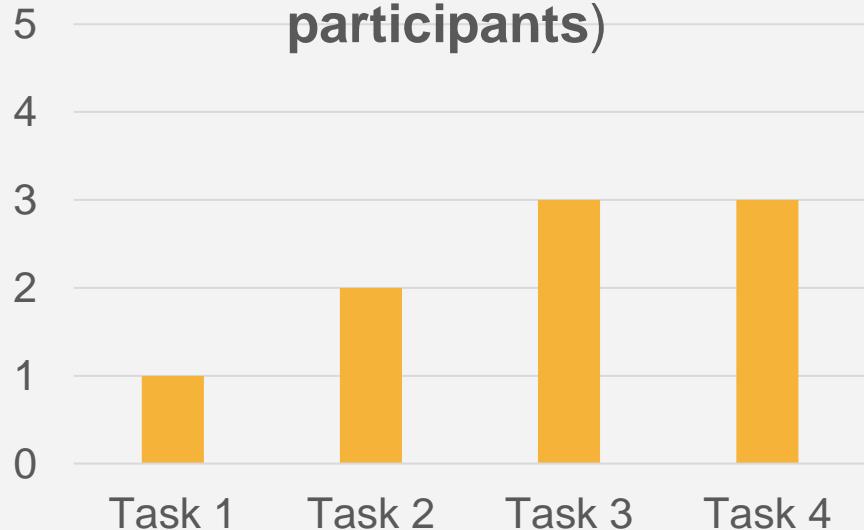




09 LFP User Evaluation

- **Task 1:** Search for details about a show
- **Task 2:** Check if you follow a Station, listen to it live and join the chat
- **Task 3:** Follow a show and add an episode to your watch later list
- **Task 4:** Remove an episode from your Favourites
 - ○ ○ ○
 - ○ ○ ○
 - ○ ○ ○

Difficulty by Task (15 participants)





09 LFP User Evaluation

- Navbar inconsistency
- Chat isn't readily available

○ ○ ○ ○

○ ○ ○ ○

○ ○ ○ ○



09 LFP User Evaluation

The screenshot displays the YourFM mobile application's user interface. On the left, a vertical sidebar menu is highlighted with a red border. The menu items include Home, Search, Library, Rádio Com..., RFM, and CidadeFM. Below the sidebar, a user profile picture of a man named 'Bob Boss' is shown. The main content area features a grid of 18 radio station cards, arranged in three rows of six. Each card includes a thumbnail image, the station name, and a brief description. The stations listed are:

- Informação Privilegiada (Thumbnail: Man in blue hoodie)
- Stand Up Na Hora (Thumbnail: Man with pencil)
- Wi-fi da RFM (Thumbnail: Couple)
- Wi-fi da RFM (Thumbnail: Couple)
- RFM (Thumbnail: Red logo)
- Radio Comercial (Thumbnail: Red circle)
- CidadeFM (Thumbnail: CDD FM logo)
- m80 radio (Thumbnail: Red m80 logo)
- Informação Privilegiada (Thumbnail: Man in blue hoodie)
- Stand Up Na Hora (Thumbnail: Man with pencil)
- Wi-fi da RFM (Thumbnail: Couple)
- Wi-fi da RFM (Thumbnail: Couple)
- RFM (Thumbnail: Red logo)
- Radio Comercial (Thumbnail: Red circle)
- Informação Privilegiada (Thumbnail: Man in blue hoodie)
- Stand Up Na Hora (Thumbnail: Man with pencil)
- Wi-fi da RFM (Thumbnail: Couple)
- Wi-fi da RFM (Thumbnail: Couple)
- RFM (Thumbnail: Red logo)
- Radio Comercial (Thumbnail: Red circle)

At the bottom of the screen, there is a navigation bar with a play button, a volume icon, a progress bar, and the text 'PLAYING:'. The YourFM™ logo is also visible at the bottom right.



09 LFP User Evaluation

The screenshot shows the homepage of Rádio Comercial. At the top, there's a banner for 'CAFÉ DA MANHÃ' from 07H-10H, featuring five hosts smiling. Below the banner, the station's name 'Rádio Comercial' is displayed in large letters, with a 'Following' button next to it. A red box highlights the vertical navigation bar on the left, which includes icons for Home, Search, Favorites, and a QR code. To the right of the navigation bar is a 'Radio Chat' section with a message from Pedro Fernandes. The main content area shows 'Popular Shows' with four thumbnails: 'Informação Privilegiada', 'Stand Up Na Hora', 'Wi-fi da RFM O PODCAST!', and 'Wi-fi da RFM'. At the bottom, a player bar indicates 'PLAYING: Rádio Comercial - Só grandes músicas'.

CAFÉ DA MANHÃ
DE SEG A SEX
07H-10H

Rádio Comercial Following

Live Now: Café da Manhã

Popular Shows

- Informação Privilegiada
- Stand Up Na Hora
- Wi-fi da RFM O PODCAST!
- Wi-fi da RFM

Radio Chat

Welcome to the chat room!

Pedro Fernandes : Estás a ouvir a RFM, aproveita a viagem!
Zé Tá : Alguém viu as minhas chaves do carro?
Amílcar do Talho : Nunca mais metem o meu som...

Send a message

PLAYING: Rádio Comercial - Só grandes músicas

YourFM™



09 LFP User Evaluation

MANHA
DE SEG A SEX
07H-10H

RFM FOLLOWING

● Live now: Que barulho é este?

Popular Shows

STAND-UP NA HORA
 CARA PODRE...
 ORA BOLA! TENIS É NA RFM

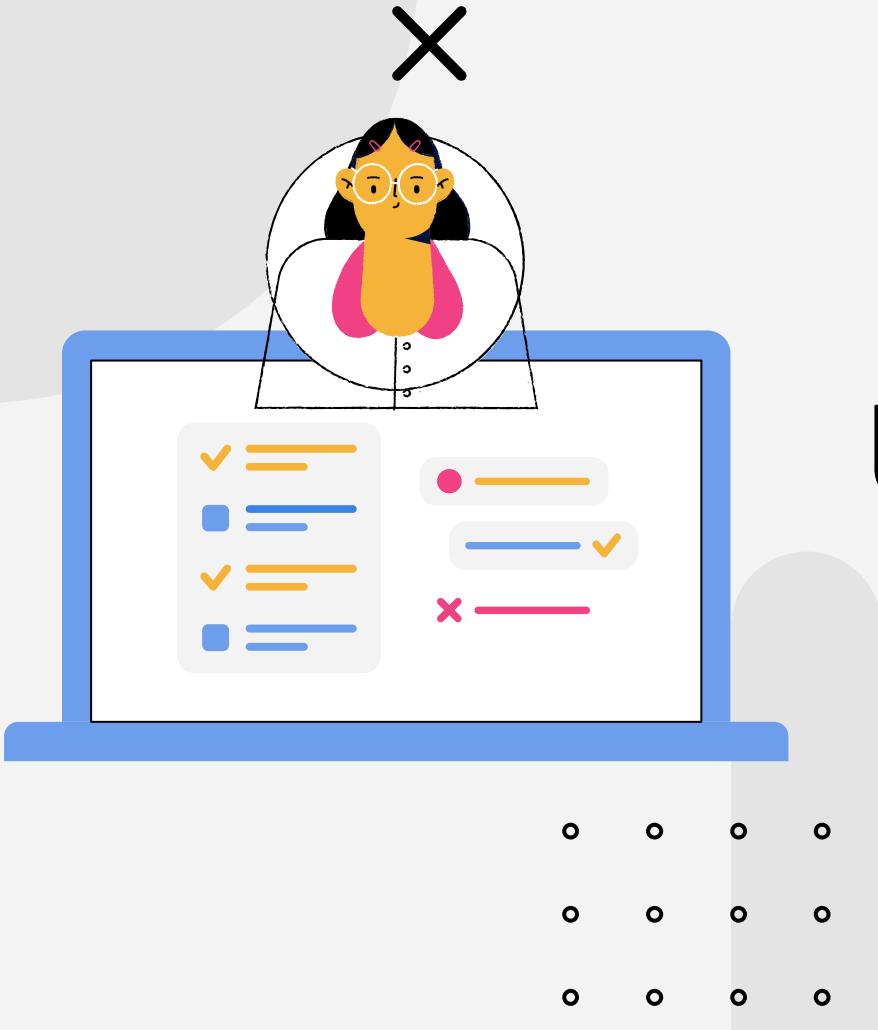
Not Episodes

PLAYING:

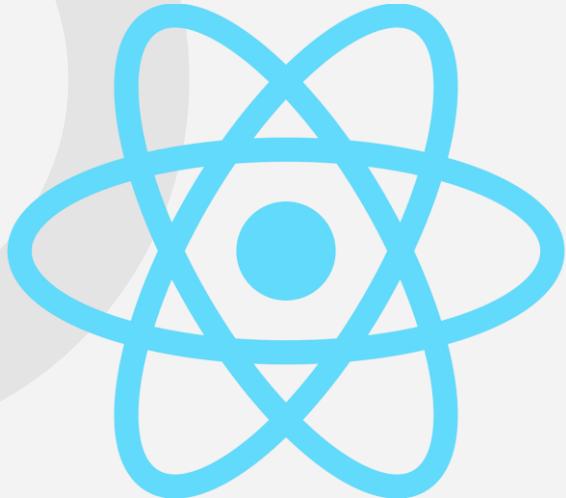
YourFM™

10

Used Platform & Tools



10 Used Platform & Tools



React

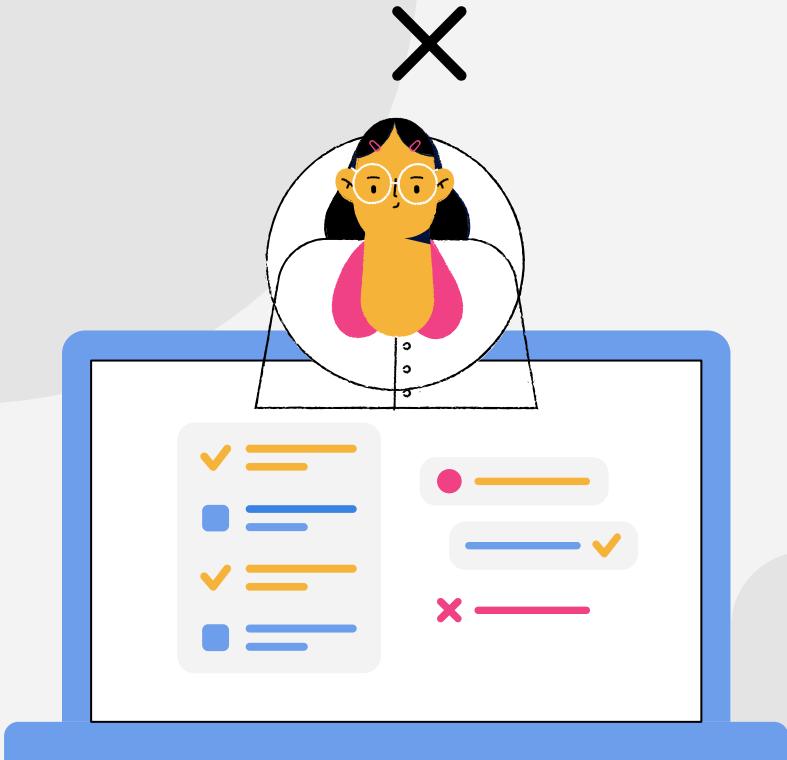


TailWind



11

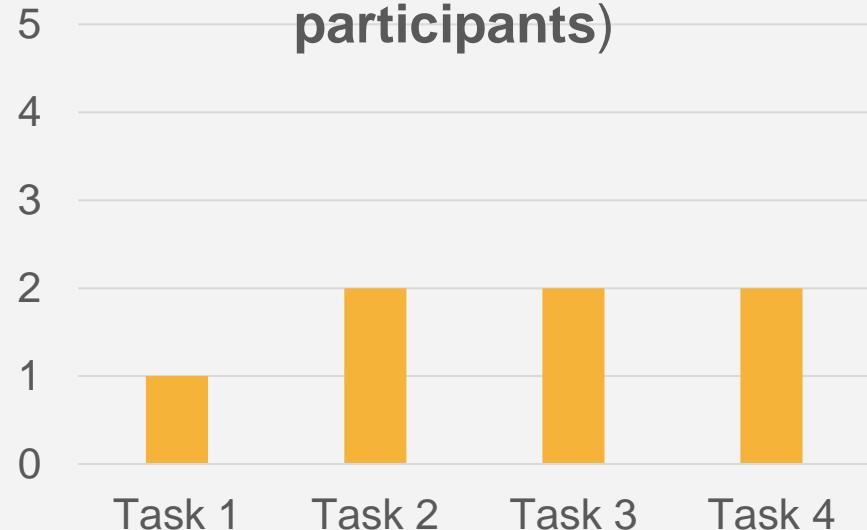
User evaluation of FP and Heuristic Evaluation



X 11 FP User Evaluation

- **Task 1:** Search for details about a show
- **Task 2:** Check if you follow a Station, listen to it live and join the chat
- **Task 3:** Follow a show and add an episode to your watch later list
- **Task 4:** Remove an episode from your Favourites
 - ○ ○ ○
 - ○ ○ ○
 - ○ ○ ○

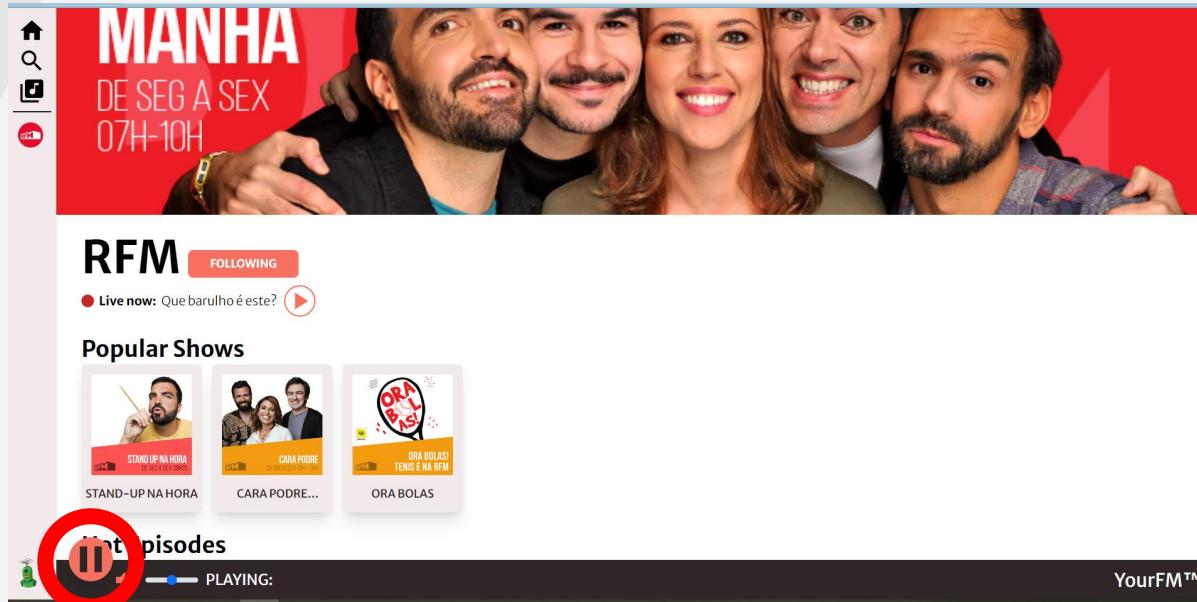
Difficulty by Task (30 participants)



- o o o o
- o o o o

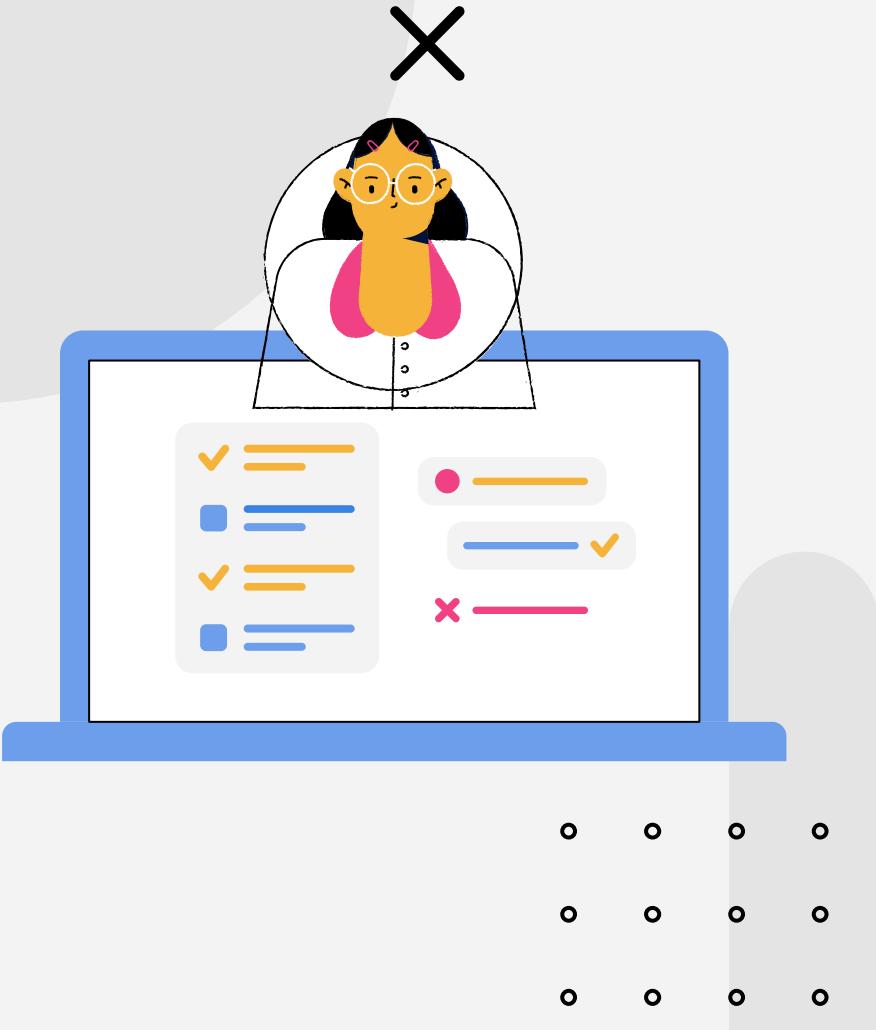
Heuristic Evaluation

- **No Help Section** - Heuristic: #10 Help and Documentation - Severity: 2 out of 4
- **Persistent Play Button not working on all pages** - Heuristic: #1 Visibility of System Status - Severity: 3 out of 4

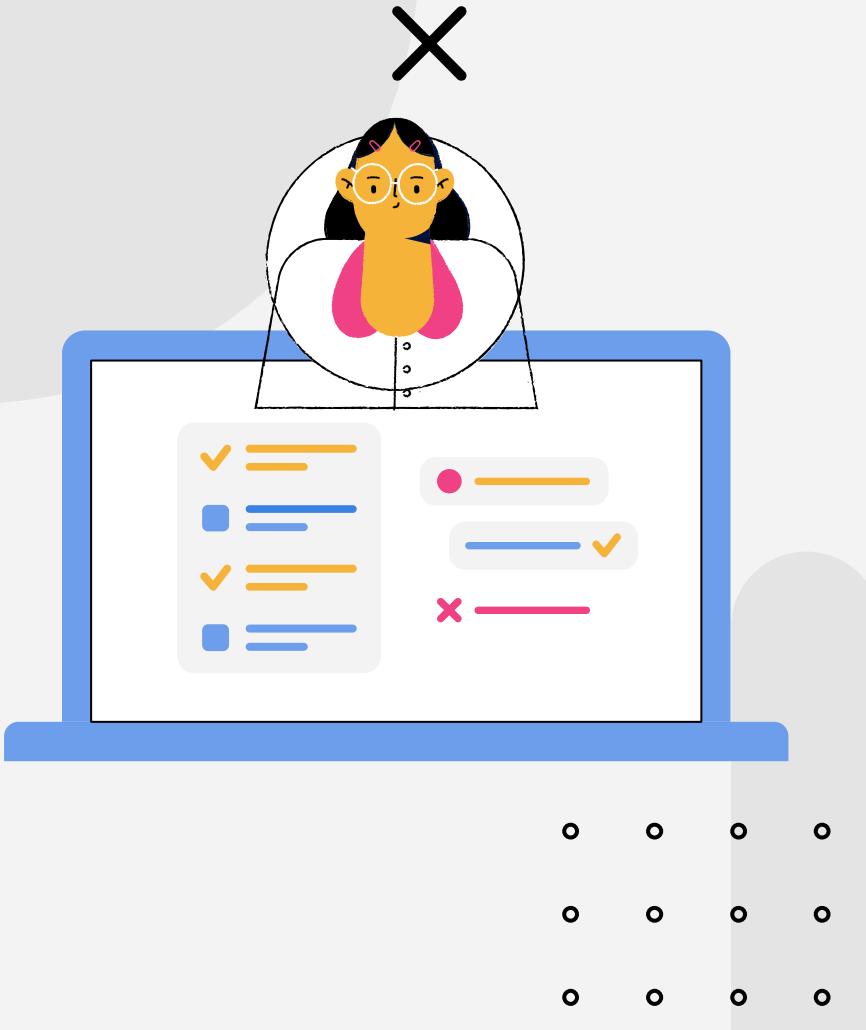


12

Functional Prototype



The screenshot shows the 'For You' section at the top left and the 'Now' section below it. The 'For You' section features four cards: 'GERAÇÃO Z' (Rádio Renascença euronet), 'Se fosse a ti não atendia!!' (with Joana Séqueira), 'Cala-te Boca!', and 'HOTEL California'. The 'Now' section features four cards: 'RÁDIO COMMERCIAL', 'Cala-te Boca!', 'STAND-UP NA HORA' (with Stand-up artist Sérgio Melo), and 'COMPROMISSO VERDE' (with environmentalist Bruno Senna).



12

Functional Prototype: Next Up

12 Functional Prototype: Next Up

- Add a Discovery tab
- Add a Keep Listening section
- Homepage tuned to the user's tastes
- Port to car infotainment system
- Add friends system
- Create broadcaster interface

