



universidade  
de aveiro

# BEEGBRAIN

A Multi-tenant system to manage EEG

**PROJETO EM INFORMÁTICA**  
2021/2022

JOÃO REIS, 98474  
JOÃO FARIAS, 98679  
MARIANA ROSA, 98390  
RICARDO RODRIGUEZ, 98388



# Our Team



**João Farias**

Software Architect



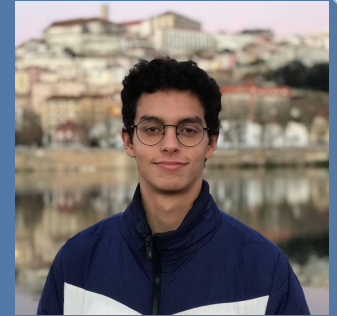
**João Reis**

Team Manager



**Mariana Rosa**

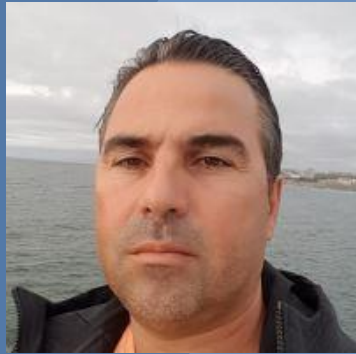
Product Owner



**Ricardo  
Rodriguez**

DevOps Master

# Guiding Teachers

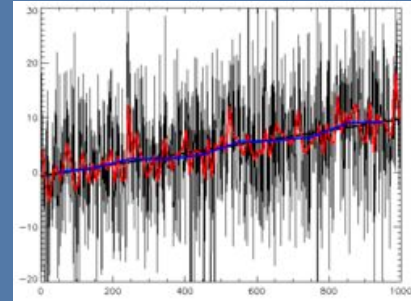
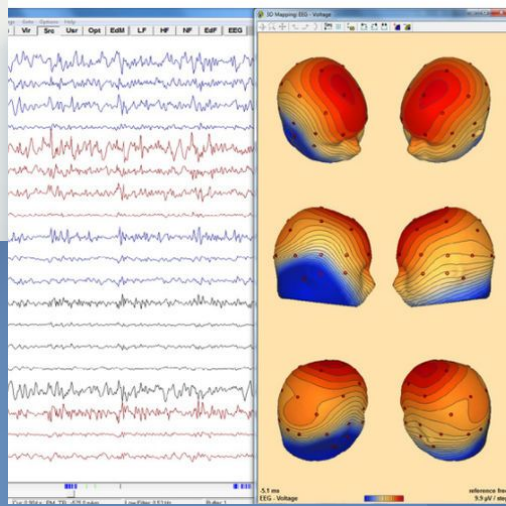


**Carlos Costa**



**Luís Bastião**

# Context



**EEG** (ElectroEncephaloGram)

**EDF** (European Data Format)

# The problem itself

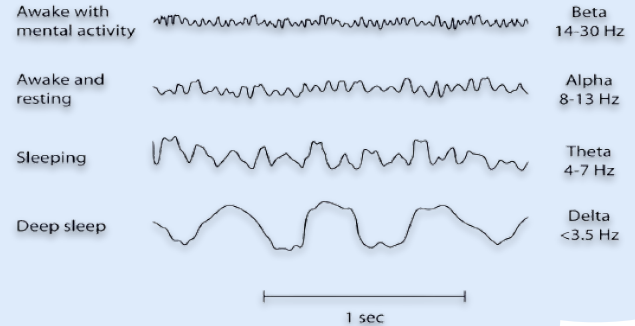
Lack of **standardization** and **interoperability** in the existing data format

→ the **standard archive** is not used by mostly of the manufactures;



# GOALS

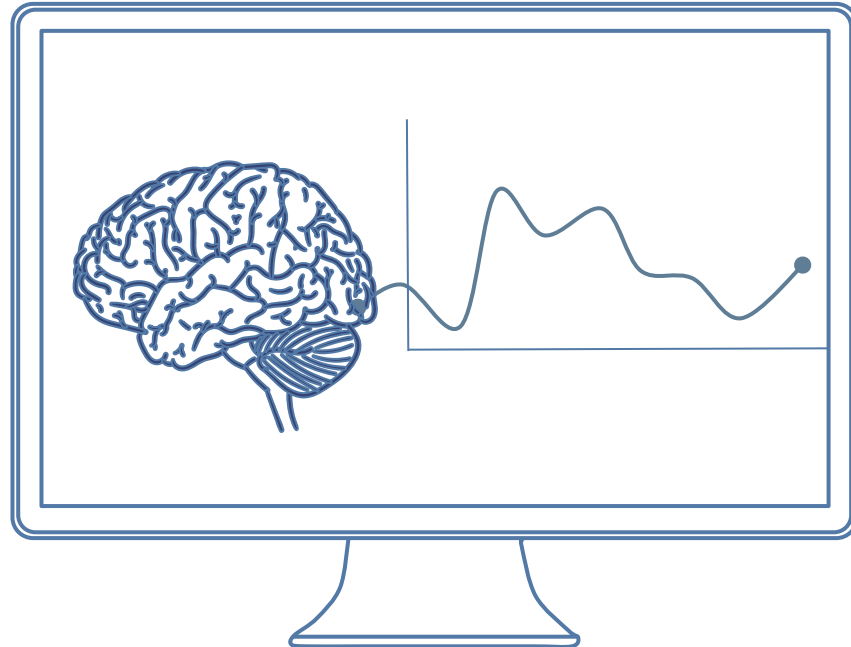
- **Web platform to visualize EEG**
  - Track and monitor the exams from different institutions
- **Standardization of EDF Service**
  - Be able to receive a EEG file in different formats
- **Multi-tenant system**
  - Multi-institutional and multi-user system



# TASKS

Name	Date	Module	Type	Attribution	Checkbox
<input checked="" type="checkbox"/> Definir estrutura da BD (protótipo)	March 23, 2022	Database	Task	João Farias João Reis Ricardo Rodriguez	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Arquitetura final	March 29, 2022	Backend	Task	Ricardo Rodriguez João Farias	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Protótipo de Frontend	March 29, 2022	Frontend	Task	Mariana Rosa	<input type="checkbox"/>
<input checked="" type="checkbox"/> Definir a Base de dados (final)	April 1, 2022	Database	Task	João Farias João Reis Ricardo Rodriguez	<input type="checkbox"/>
<input type="checkbox"/> Milestone 1	April 5, 2022		Milestones		<input type="checkbox"/>
<input checked="" type="checkbox"/> Conversão de ficheiros	April 20, 2022	Backend	Task	João Reis Ricardo Rodriguez	<input type="checkbox"/>
<input checked="" type="checkbox"/> Criação da API	April 21, 2022	Backend	Task	João Reis Ricardo Rodriguez Mariana Rosa	<input type="checkbox"/>
<input checked="" type="checkbox"/> Implementar o protótipo de frontend	April 22, 2022	Frontend	Task	João Farias Mariana Rosa	<input type="checkbox"/>
<input type="checkbox"/> Milestone 2	April 24, 2022		Milestones		<input type="checkbox"/>
<input checked="" type="checkbox"/> Compressão dos ficheiros (opcional)	May 15, 2022	Backend	Task		<input type="checkbox"/>
<input checked="" type="checkbox"/> Criar ficheiros Docker	May 17, 2022	Deployment	Task	Ricardo Rodriguez	<input type="checkbox"/>
<input checked="" type="checkbox"/> Dar deploy da API	June 1, 2022	Deployment	Task	Mariana Rosa	<input type="checkbox"/>
<input checked="" type="checkbox"/> Dar deploy do website em si	June 6, 2022	Deployment	Task	Mariana Rosa	<input type="checkbox"/>
<input type="checkbox"/> Milestone 3	June 9, 2022		Milestones		<input type="checkbox"/>
<input checked="" type="checkbox"/> Melhorar o frontend de acordo com o	June 18, 2022	Frontend	Task	João Farias Mariana Rosa	<input type="checkbox"/>
<input checked="" type="checkbox"/> Testes de high-order	June 20, 2022	Testing	Task	João Reis Mariana Rosa	<input type="checkbox"/>
<input checked="" type="checkbox"/> Testes de integração	June 20, 2022	Testing	Task	João Farias Ricardo Rodriguez	<input type="checkbox"/>
<input checked="" type="checkbox"/> Testes unitários	June 20, 2022	Testing	Task	João Reis Mariana Rosa	<input type="checkbox"/>
<input type="checkbox"/> Milestone 4	June 21, 2022		Milestones		<input type="checkbox"/>

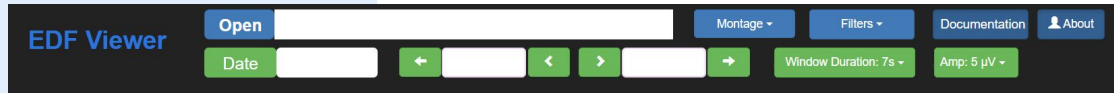
# Expected Results





# Related work

- EDF Viewer  
[[https://bitalzonjy.github.io/EDFViewer\\_V1/EDFViewer\\_V1.html](https://bitalzonjy.github.io/EDFViewer_V1/EDFViewer_V1.html)]



- Persyst [<https://www.persyst.com/>]
- Learning EEG [<https://www.learningeeg.com/>]





# Thank you!

To get more info, check out our website

<https://infopi.netlify.app/>