

Sistema de apoio à criação da Distribuição do Serviço Docente - Milestone 3

Projeto em Informática

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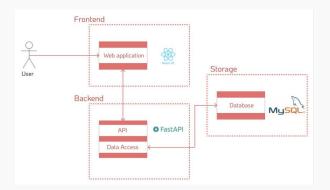
NEXT STEPS

QUICK RECAP

To sum up:

- We had previously shown things like our mock-up, domain module, and system architecture;
- Now we are going to show our progress so far, as well as what is left to be done and what can be improved;







WORK DEVELOPED



Frontend

- Cells sorted by color and capacity (TP, P, T, ...);
- Information from the API;
- Detailed information of uc and teachers;

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ACE Aplicacionais para ciencias e engenharia	NBC 80 50	ССВ	
Arquitectura de ACA computadores avanã‡ada	JCP 80		
ARA Arquitectura de redes avanã‡adas	ICO 80 ²	ARN	2 ML 25
AC1 Arquitetura de computadores i	IOU 80	JLA	



WORK DEVELOPED

Backend

- Creation of data tables, as well as the population with relevant data (based on the DSD from the previous year)
- Queries, UDFs and views to allow for the organization of data

 Opções 						
uc_acronym	uc_name	component	class_hours	availability_percent	prof_acronym	prof_name
AA	ALGORITMOS AVANÇADOS	T	2	100	LFA	Luis Filipe Mesquita Nero Moreira Alves
AA	ALGORITMOS AVANÇADOS	T	2	50	PC	Pedro Miguel da Silva Cabral
AMS	ANÁLISE E MODELAÇÃO DE SISTEMAS	P	2	25	AP	Armando José Formoso de Pinho
AMS	ANÁLISE E MODELAÇÃO DE SISTEMAS	P	2	100	AGC	António Guilherme Rocha Campos
ACE	APLICACIONAIS PARA CIENCIAS E ENGENHARIA	T	2	25	JM	Joaquim João Estrela Ribeiro Silvestre Madeiro
ACE	APLICACIONAIS PARA CIENCIAS E ENGENHARIA	T	2	50	CCB	Carlos Alberto da Costa Bastos
ARA	ARQUITECTURA DE REDES AVANÇADAS	P	2	100	JFR	José Rodrigues Ferreira da Rocha
ARA	ARQUITECTURA DE REDES AVANÇADAS	T	2	100	ARN	António José Ribeiro Neves
ARA	ARQUITECTURA DE REDES AVANÇADAS	P	2	25	ML.	Mário José Neves de Lima
AC1	ARQUITETURA DE COMPUTADORES I	P	2	50	APS	Adão Paulo Soares da Silva
AC1	ARQUITETURA DE COMPUTADORES I	P	2	25	JLA	José Luis Costa Pinto Azevedo
CBD	COMPLEMENTOS DE BASES DE DADOS	P	2	25	EVM	Ernesto Fernando Ventura Martins
CV	COMPUTAÇÃO VISUAL.	T	2	25	AG	Atílio Manuel da Silva Gameiro
E	ELECTRÓNICA	T	2	25	JLC	José Luis Vieira Cura
E	ELECTRÓNICA	P	2	50	JAF	José Alberto Gouveia Fonseca
EP	ELECTRÓNICA DE POTÊNCIA	T	2	50	ARB	António Rui de Oliveira e Silva Borges
EP	ELECTRÓNICA DE POTÊNCIA	P	2	25	FMS	Filipe Miguel Teixeira Pereira da Silva
E1	ELECTRÓNICAT	T	2	100	IOU	Iouliia Skliarova
E1	ELECTRÓNICA I	P	2	50	PG	Pétia Georgieva Georgieva

```
"assigned_classes": [
    "uc_acronym": "AA",
    "uc name": "ALGORITMOS AVANCADOS",
    "component": "T",
    "class hours": 2,
   "availability percent": 100,
    "prof acronym": "LFA",
    "prof name": "Luis Filipe Mesquita Nero Moreira Alves"
    "uc acronym": "AA",
    "uc name": "ALGORITMOS AVANÇADOS",
    "component": "T",
    "class hours": 2,
    "availability percent": 50,
   "prof_acronym": "PC",
    "prof name": "Pedro Miquel da Silva Cabral"
    "uc acronym": "AMS",
    "uc name": "ANÁLISE E MODELAÇÃO DE SISTEMAS".
    "component": "P",
    "class hours": 2,
    "availability percent": 25,
    "prof acronym": "AP".
```



WORK DEVELOPED API

GET	/ Read Root	~	
GET	/v1/classes/ Get Classes	~	•
GET	/vl/departments/ Get Departments	~	
GET	/vl/professors/ Get Professors	~	
GET	/vl/dsders/ Get Dsders	~	
GET	/v1/courses/ Get Courses	~	
GET	/vl/ucs/ Get Ucs	~	
GET	/vl/wishlists/ Get Wishlists	~	
GET	/vl/assigned_classes/ Get Assigned Classes	~	

TASK DISTRIBUTION

- Interface
 - Análise de requisitos
 - Apresentação gráfica (esboço da interface) [JT+AG 2d] 🗹
 - Funcionalidades [PM+EF 2d] ✓
 - o Implementação em React
 - Aprender React [TODOS 3d] ✓
 - Definir estrutura de pastas e layout da homepage [TODOS 1d]
 - Programar Interface [PM+EF 10d] 🔄
 - o Testar a interface com utilizadores
 - Testar com colegas/Profs. do Deti/Profs. outros depts. [TODOS 2]
- · API
 - o Conexão aos containers da interface e BD [JT 1h]
 - Métodos get/post/... [JT+AG 3d]
 - o parâmetros opcionais [JT+AG 3d] 🔄

- Base de Dados
 - o DDL [JT+AG 1d] ✓
 - o DML (script) [JT+AG 3h] ✓
 - Queries/UDFs/Views [JT+AG 3d]
- Deployment
 - Docker Containers [JT 2d]
 - Configurar VM Azure [JT 2h]
- Gestão do projeto
 - Atribuir tarefas [JT]
 - o Criar milestones [JT]
 - listar dependências de tarefas + Gantt Chart [JT 1d]
- Relatório e documentação
 - o Elaboração [AG+PM+EF 4d]

DOCKERS

- For reasons of ease of development, debugging and for being the recommended method in the official docker documentation, we decided to create a dedicated container for each service.
- Regarding performance losses in this approach, docker is extremely efficient because, unlike traditional VMs, it only creates an isolated filesystem and uses the host OS kernel.

```
root@36fe9eff1255:/backend/api# ping 172.18.0.4
PING 172.18.0.4 (172.18.0.4) 56(84) bytes of data.
64 bytes from 172.18.0.4: icmp_seq=1 ttl=64 time=0.067 ms
64 bytes from 172.18.0.4: icmp_seq=2 ttl=64 time=0.058 ms
64 bytes from 172.18.0.4: icmp_seq=3 ttl=64 time=0.057 ms
64 bytes from 172.18.0.4: icmp_seq=4 ttl=64 time=0.077 ms
64 bytes from 172.18.0.4: icmp_seq=5 ttl=64 time=0.044 ms
64 bytes from 172.18.0.4: icmp_seq=6 ttl=64 time=0.045 ms
```

CALENDAR PROGRESSION

		ONE 2 MILES I 4/2022 03/05		
✓	✓	✓	\$\frac{1}{2}\frac{1}{2	<u></u>
Context & Calendar Lifecycle Objectives & Website	Project Architecture & Requirements Analysis	Product development & Initial prototype	Complete development of all functionalities & Technical Report	Product release & Some fixes

Already done to today's date:

- Started development of Interface; •
- DB implementation;

- Docker containers
- API development;

And now we will present our application working live...

NEXT STEPS

What is left to do:



Configure Azure VM



Finish Interface and export DSD



Implement new API methods