Lean Dashboard

José Pedro Jesus, n.º 44805, e-mail: zepedro4259@gmail.com, tel.: 963 730 812
Hugo Manuel Jacinto Pinheiro, n.º 44886, e-mail: hugomjp28@gmail.com, tel.: 938 973 719
Tomás Simão Mendes dos Santos, n.º 45363, e-mail: tomassms@gmail.com, tel.: 911 029 224

Orientadores: João Pereira, e-mail: joao.pereira@inetum.world, Inetum
Filipe Freitas, e-mail: ffreitas@cc.isel.ipl.pt

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1 - Introduction

Nowadays, within a company, it is even more important to have an organized and cooperative team with knowledge of all the steps and goals that need to be worked on for the various projects they are currently participating in.

Each member of the team has to keep track of high amounts of information, making it an easy task to overlook or forget issues that might bring problems to a project later on. The information relative to a project can be obtained from different sources and it is all aggregated in one place, readily available to be displayed to a work team to better guide a certain project's development.

Only certain projects will be available to certain users. To access its projects, a user needs to authenticate. The authentication of users will be managed by a standalone authentication module.

The Lean Dashboard Project will be developed to help the company's workers keeping track of all the possible tasks for their projects, gathering all the information needed for the various activities from the many sources that are necessary, presenting it on an easy to read and reactive web application.

The project will centre around the development of a responsive web application capable of running on a multitude of devices, ranging from smartphones to desktop computers to large screens such as TVs. This web application will display to a work team of a company all of the information regarding various projects being worked on.

The information being displayed will show the team what needs to be addressed in the project at hands, such as milestones, bugs and current errors in the project.

2 - Requirements

The main problem being addressed with the Lean Dashboard project is the fact that a lot of times, the information relative to a certain work project can be scattered across multiple places, such as different websites, applications and or files. By putting it all together, we aim to make such information readily available, to not be forgotten and be in plain sight at all times. (Meti esta introdução nos requirements. Poderá fazer sentido ser posta noutro local, mas coloquei aqui porque vi estrutura semelhante em exemplos de propostas. JJ)

2.1 - Database and API

To manage all of the information, we will first need to develop a back end. Said back end would allow us to retrieve and manage aspects of a project (such as its name or description) as well as its deadlines, bugs and errors. The information would be retrieved from various endpoints, adapted to our own and then stored in a PostgreSQL database.

3 - Analysis

The following are the steps and tools we must develop in order to make this web application function as intended.

- An API to manage all the information of various projects related to a company (such as manage milestones, bugs and issues)

- An ETL procedure to process data received from various sources and adapt said data to later be stored in a Database

- An Authorization Module to get authentication and authorization of the users (in order to control the access to various projects)

- Displaying the information in a responsive user interface

- Support for multiple languages