CONFIGURATION DOCUMENTO OF SOFTWARE

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BANCO DE DADOS II

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JOÃO MONLEVADE, ICEA

2024

**Introduction**

The following document is created to define the conditions and configurations necessary for the execution of the code for the Database II project. This document is divided into the following phases: general project information, which discusses the software and basic characteristics; development environment, where hardware and software requirements are specified; and environment configuration, which includes instructions for installing the code.

**General Information**

The following software is developed as an improvement in the food courts of shopping malls, allowing users to place orders from different restaurants from a single point, with the respective orders reaching the restaurants.

**Hardware Requirements**

The development and execution of the software are carried out on a computer with 512 GB of SSD storage and 16 GB of RAM. However, since the software is lightweight, it can run on a computer with at least 128 GB of SSD storage and 8 GB of RAM. It also does not require graphics cards.

**Software Requirements**

The software is developed using MongoDB, Python, JavaScript, and Node.js primarily. Additionally, Flask libraries from Python and React from JavaScript are also used. Therefore, it is important to have everything related to these technologies installed, as well as their respective runtime environments. A web browser such as Google Chrome and Visual Studio as a code editor are recommended.

**Environment Configuration**

**Installation of Node.js**

1. **Visit the Node.js download page:**
   * Go to the [Node.js Official Website](https://nodejs.org/" \t "_new).
2. **Download the installer:**
   * Choose the recommended version (LTS) for greater stability.
   * Click on the download button for your operating system (Windows, macOS, or Linux).
3. **Run the installer:**
   * Open the downloaded file and follow the installation wizard's instructions.
   * Make sure to select the option to add Node.js to the PATH environment variable during installation.
4. **Verify the installation:**
   * Open the terminal or command prompt and run:

bash

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node -v

npm -v

* + You should see the installed versions of Node.js and npm (Node.js package manager).

**Installation of Python**

1. **Visit the Python download page:**
   * Go to the [Python Official Website](https://www.python.org/downloads/).
2. **Download the installer:**
   * Click on the "Download Python" button (the latest stable version).
3. **Run the installer:**
   * Open the downloaded file.
   * Make sure to check the box that says "Add Python to PATH" before clicking "Install Now."
   * Follow the instructions to complete the installation.
4. **Verify the installation:**
   * Open the terminal or command prompt and run:

bash

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python --version

pip --version

* + You should see the installed versions of Python and pip.

To install Flask, open the terminal and run the command pip install flask, and for React-related components, execute npm install react-router-dom.

**Execution**

The backend should be executed from Visual Studio by clicking the run button after navigating to the following path: \ProjetoPratico\server.  
MongoDB should be run from the console with the command mongod.  
Finally, navigate to the folder \ProjetoPratico\frontend and run the command npm start in the terminal.