*Digital Bubble*

*Installation Manual*

**Databases project, 2º ano, 2º semester**

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**20 de maio de 2022**

1. *Software installation*
   1. . Install the database management system *PostgreSQL.* ([*https://www.postgresql.org/*](https://www.postgresql.org/)*)*
   2. . Install the latest version of Python*.*

( [*https://www.python.org/downloads/l*](https://www.oracle.com/pt/java/technologies/javase/javase-jdk8-downloads.html)*)*

* 1. . Install an IDE that supports the Python language*.*

- *IDE* recommended: *Jetbrains* *Pycharm.*

(<https://www.jetbrains.com/pycharm>)

* 1. . Install a webclient for further testing the Rest API*.*

- *Webclient* recommended: *Postman*.

(<https://www.postman.com/downloads/>)

1. *Database importation*

2.1. Open an SQL terminal (Eg: psql) or an SQL text editor (Eg: pgadmin Query Tool)

2.2 Create user that has all types of permissons.

2.2. Run the SQL code contained in the initSQL.sql file. This contains the SQL script that allows creating the DigitalBubble database (including triggers and stored procedures) and populating it with some entities.

1. Environment configuration

3.1. Using one of the tools mentioned in the previous step, create a new database user.

3.2. Using a database user account with maximum permissions (postgres by default) assign the necessary permissions for the user created in step 3.1 to access and insert into the newly imported database.

3.3. Open the ‘api' folder in the chosen IDE and then the ‘main.py’ file.

3.4. Set the database user credentials (‘app.config[‘USER’]’ and ‘app.config[‘PASSWORD’]’) to those provided when creating the user in step 3.1.

3.5. Run the application.