Data Management Project

Mamo Art Gallery

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M.Sc. Engineering in Computer Science

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1 Introduction

The idea is a web-based application which serves as an online marketplace for the search and purchase of artworks created by a number of different artists. Potential users are afforded the opportunity to explore a variety of paintings prior to making a purchase.

The application's architectural framework consists of the following components:

- A **database**, managed by MongoDB.

- A **backend**, constructed using Python with the Flask web framework.

- A **frontend**, developed using the ReactJS framework.

The entire application is based on two datasets: the Edvard Munch Paintings dataset and the Museum of Modern Art (MoMA) Collection dataset.

The web application is structured as follows:

- The **login page**

- the **sign up page**

- The **homepage**: displays all available paintings at MaMo Art gallery. Selecting a painting will display a summary of relevant information about the artwork, including the title, name, date, medium, dimensions, acquisition date, and other pertinent details. Furthermore, users have the option to purchase the selected artwork directly from this page, which will then be added to their list of orders.

- The **orders page**: displays all orders placed by the user, including the Order ID, the Artwork ID and the date of the order.

- The **artists page**: displays all artists associated with MaMo Art Gallery. Clicking on an artist displays their biography (nationality, gender, birth year, death year) and the list of their relative paintings.