SAPIENZA
UNIVERSITÀ DI ROMA

Data Management Project

Mamo Art Gallery

Faculty of Information Engineering, Computer Science and Statistics

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 purchasers 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:

2   Dataset Description

3   Database: MongoDB

3.1   Why use MongoDB?

4   Backend: Flask and Python

5   Frontend: React