

Pisa University  
  
  
TASK 1  
LARGE-SCALE AND MULTI-STRUCTURED DATABASES

**“*PisaFlix” project documentation***  
academic year 2019-2020  
  
  
  
  
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# Analysis Document

## Introduction

Have you ever found yourself in a gloomy day? Everyone is at home, no one knows what to do and time seems to slow down. That’s the perfect time for a movie! If you live within the Pisan suburb and you want to enjoy the best experience, PisaFlix is what you need.

PisaFlix is a platform in which you’ll find all of the information regarding movies and cinemas in the Pisa area. It gives you the possibility to know which cinema is available, which film you could watch and at what time all of the projections are due. PisaFlix has also a rating/comment system both for cinemas and movies. This allows people to express their opinion, and, by doing so, providing others some really valuable information. Everyone who’s still unsure about what to do next will receive a great deal of help by this functionality. We believe PisaFlix offers a complete package of services, that will have a huge impact on the quality of the decisions made by our customers. Proving you everything you need to have a well informed choice is not only our goal, but also a pleasure.

## Requirements

### Functional

1. *Users* can **view** the list of **Movies/Cinemas** available on the platform.
2. *Users* can **view** the specific information about a *Movie* (es. category, publish date ecc…).
3. *Users* can **view** the specific information about a *Cinema* (es. Name, Address).
4. *Users* can **view** the *Projections* scheduled in a *Cinema*.
5. *Users* can **view** the *Projections* scheduled for a *Film*.
6. *Users* can **register** an account on the platform.
7. *Users* can **log in** as *Clients* on the platform in order to do some specific operations:
   1. If logged a *Client* can **add/remove to favorite** a *Movie/Cinema*.
   2. If logged a *Client* can **view** a *favorites*.
   3. If logged a *Client* can **comment** a *Movie*/*Cinema* and express his opinion about it.
   4. If logged a *Client* can **change** a *Movie* *Comment* that he expressed before or delete it.
   5. A *Client* can **modify/delete** his account.
8. *Users* can **log in** as*Admins* on the platform in order to do some specific operations:
   1. If logged an *Admin* can **add/delete/modify** a *Movie/Cinema/Projection*.
   2. If logged an *Admin* can **delete** a *Comment*.
   3. If logged an *Admin* can **delete** his or clients account.

### Non-Functional

1. The systems must be on 24/24.
2. The system must support hundred of concurrent access.
3. The response time must be in the order of 1-10 ms.
4. The password must be protected and stored encrypted for privacy issues.

## Software Architecture

The aim of this project is to build up the platform PisaFlix, in order to do that, we need a relational Database where storing all the informations about movies, cinemas and users.

Users instead can use a java application with a basic GUI for using all functionalities of the platform (register, see movies list ecc…)

## Use Cases Diagram

Immagine che contiene oggetto

Descrizione generata automaticamente

## Class Diagram



## Database Main Entities Diagram



# Project Document

## Software Architecture

## Classes

# Test DocumentE:\Stemma_unipi.png