Art Museum Application (AMA)

Analysis and Design Document

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Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 19/04/2018 | 1.0 | Domain Model, Architectural Design, Deployment Diagram | Rednic Ana |
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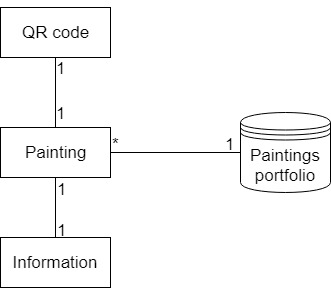
# Project Specification

The Art Museum Application (AMA) will be a stand-alone Android application that will provide a way for the visitors of the Art Museum of Baia Mare to easily find information about the works of art in the museum. The AMA could also be a support for the ones that cannot visit the museum in person: they can do a virtual tour using the application.

# Elaboration – Iteration 1.1

# Domain Model

The domain model is a conceptual model of the domain that incorporates both behavior and data.

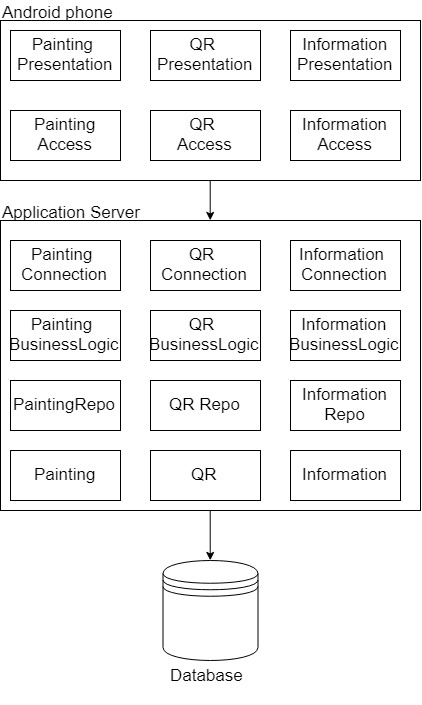


# Architectural Design

## Conceptual Architecture

I choose to implement the 3 Layers Architecture, composed of Presentation Layer, Business Logic Layer, and Data Layer, arranged as in the following schema:

In the Data Access Layer, I will make the connection to the Exhibition and Visitors databases. In the Business Logic Layer I will process the information. The Presentation Layer will be the Android interface.

I will also implement the Client-Server architecture:

## Package Design

## *C:\Users\Ana\Downloads\Package Diagram (1).jpg*

## Deployment Diagram

# *C:\Users\Ana\Downloads\Deployment Diagram (1).jpg*

# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

*[Create the interaction diagrams (1 sequence, 1 communication diagrams) for 2 relevant scenarios]*

## Class Design

*[Create the UML class diagram; apply GoF patterns and motivate your choice]*

# Data Model

*[Create the data model for the system.]*

# Unit Testing

*[Present the used testing methods and the associated test case scenarios.]*

# Elaboration – Iteration 2

# Architectural Design Refinement

*[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]*

# Design Model Refinement

## *[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]*

# Construction and Transition

# System Testing

*[Describe how you applied integration testing and present the associated test case scenarios.]*

# Future improvements

*[Present future improvements for the system]*

# Bibliography

* <https://en.wikipedia.org/wiki/Domain_model>