Sports Club Management Application

Analysis and Design Document

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Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 05/04/2017 | 1.0 | Domain Model, Architectural Design (architectural patterns and styles, package design), Component and Deployment diagrams | Ilies Alina Denisa |
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# Project Specification

*[Present the project specification]*

# Elaboration – Iteration 1.1

# Domain Model

# Architectural Design

## Conceptual Architecture

The system will use a multi layer architecture. This is a client-server one and the system functionallity is totally separated. In particular of this pattern I will implement a three-layer architecture. The three main layers are: presentation layer, data layer and logic layer.

1. Presentation layer

This layer represents the top level of the application. Using this, it will possible to display some data like events, participant, and a calendar in which are displayed the events. The user, by a web page, communicate directly with this layer. If we connect the presentation layer with others, it will be possibile to display all the modification from data layer.

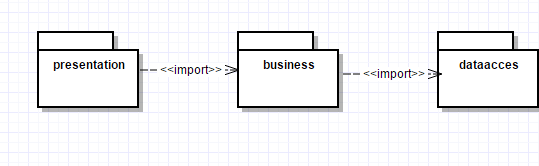
2.Bussines/logic layer

This layer control the application and with its help, all the modification in the data layer can be display in presentation layer.

3.Data layer

This layer is responsible for information persistence and all the methods that access data.

## Package Design



## Component and Deployment Diagrams

Deployment Diagram

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# 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