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**Istvan Csaszar**  
**30431**

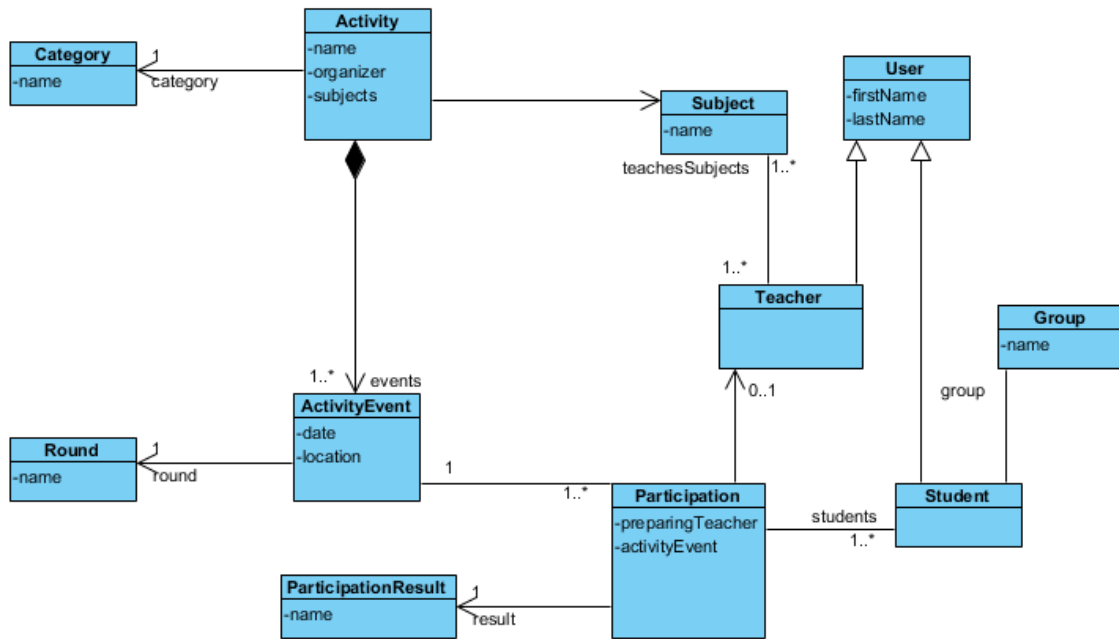
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**Student performance tracker**  
**Analysis and Design Document**

## I. Elaboration – Iteration 1.1

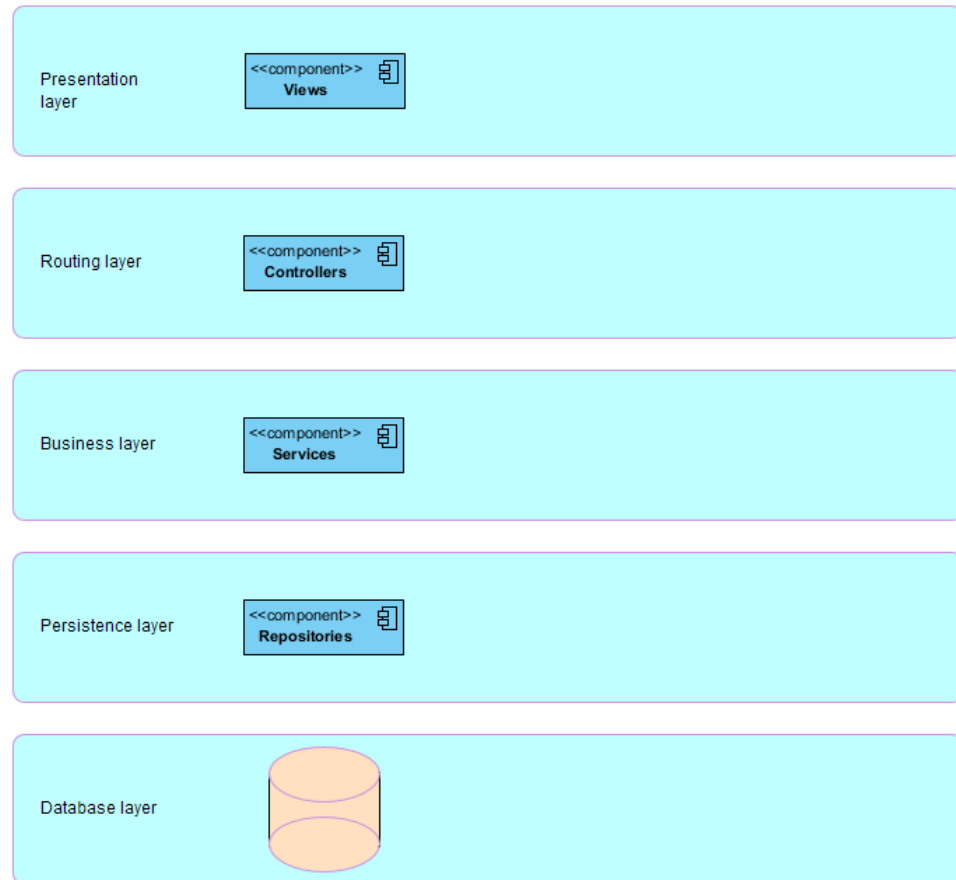
### 1. Domain Model

The system records student participations in contests and activities. Each contest has a name, an organizer and belongs to a given category and can be about some subjects. A contest has one or more rounds, each round has location, a date when it took place. Students participate (individually or in teams) in one or more rounds of a contest, where they obtain results, students may be prepared for the round by a teacher. Participations earn students and teachers points, depending on the category, the round and the placement (result).

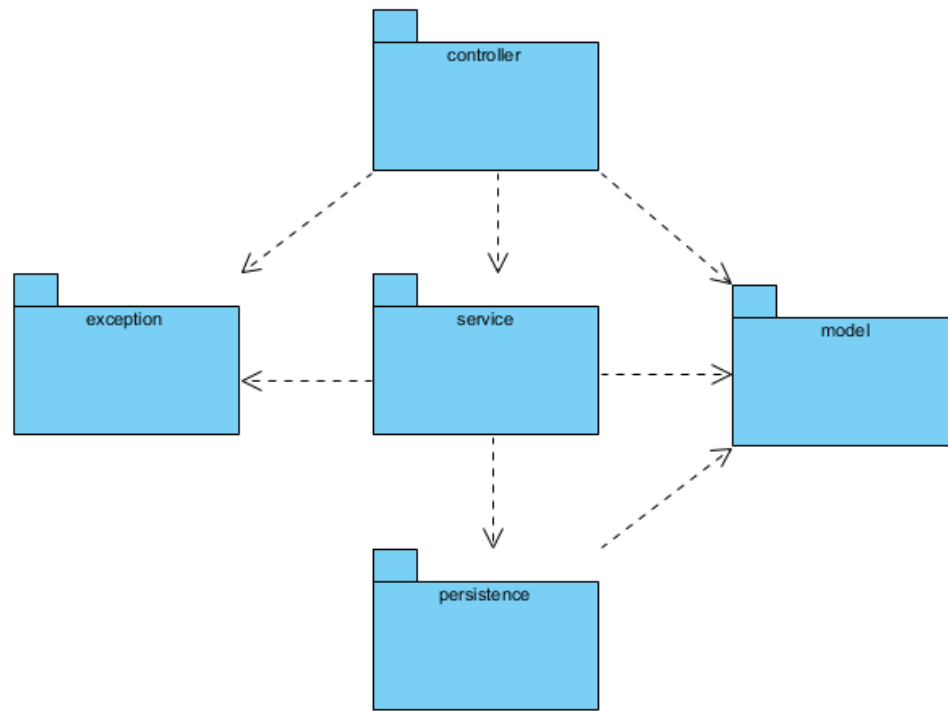


## 2. Architectural Design

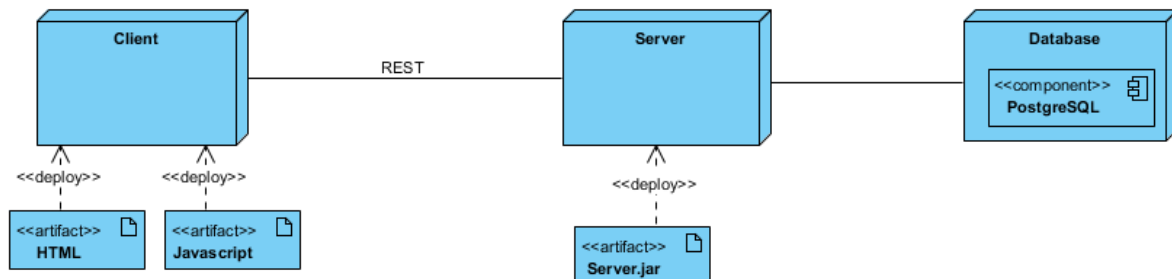
### 2.1 Conceptual Architecture



## 2.2 Package Design



## 2.3 Component and Deployment Diagrams



## II. Elaboration – Iteration 1.2

### 1. Design Model

Student performance tracker
Project Analysis and Design Document

### **1.1 Dynamic Behavior**

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

### **1.2 Class Design**

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

## **2. Data Model**

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

## **3. Test Strategy**

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

## **III. Elaboration – Iteration 2**

### **1. 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.]*

### **2. Design Model Refinement**

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

## **IV. Construction and Transition**

### **1. System Testing**

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

### **2. Future improvements**

*[Present future improvements for the system]*