

COMP 3004 - Deliverable #3

System Architecture and Design

Brackit - Mobile Tournament Bracket Creation

Metadata

Team / App Name: Brackit

Team member names

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Architecture

identify, describe, and justify the architecture of your project (architectural style, design patterns)

Outcome is a system architecture that supports the functional goals and non-functional attributes of your project

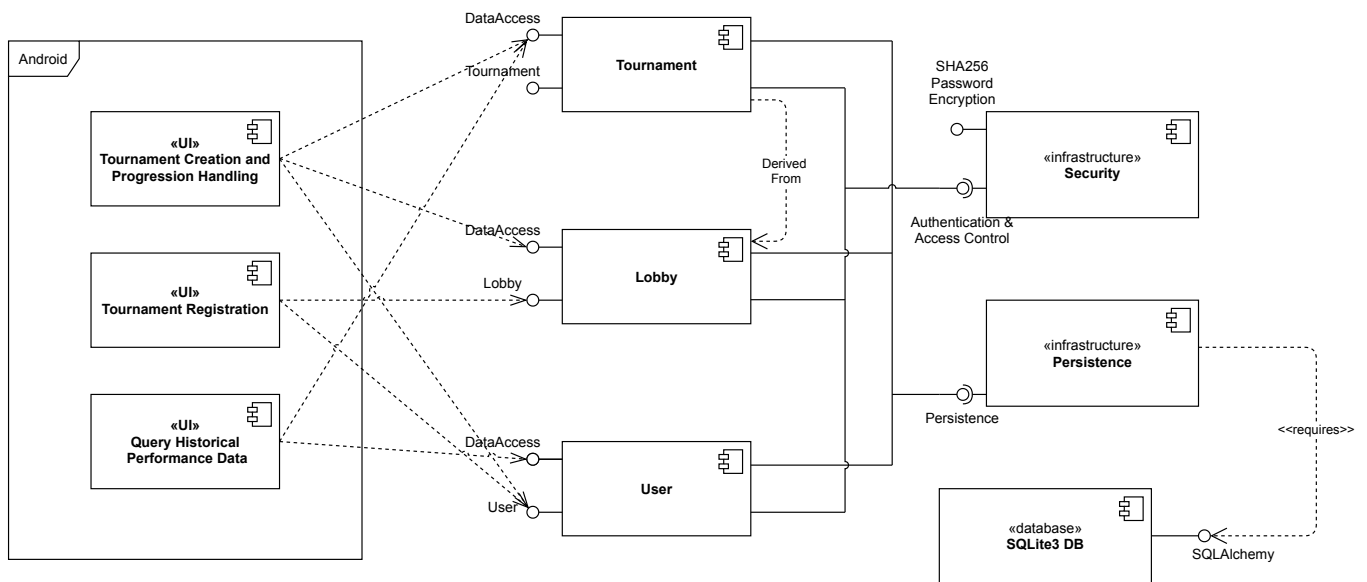
1 Description

In developing **Brackit**, we set out to address an urgent need by tournament attendants and organizers to visualize, manage, and interact with double elimination brackets on their mobile device. We committed to developing a product that will meet the following functional requirements:

1. Tournament Organizers can create, host, and maintain double elimination brackets.
2. Users of **Brackit** can use the application to join create tournaments.

2 Justification

3 Architectural Diagrams



Thanks to <http://agilemodeling.com/artifacts/componentDiagram.htm>

Figure 1: Brackit - UML 2 Architectural Component Diagram

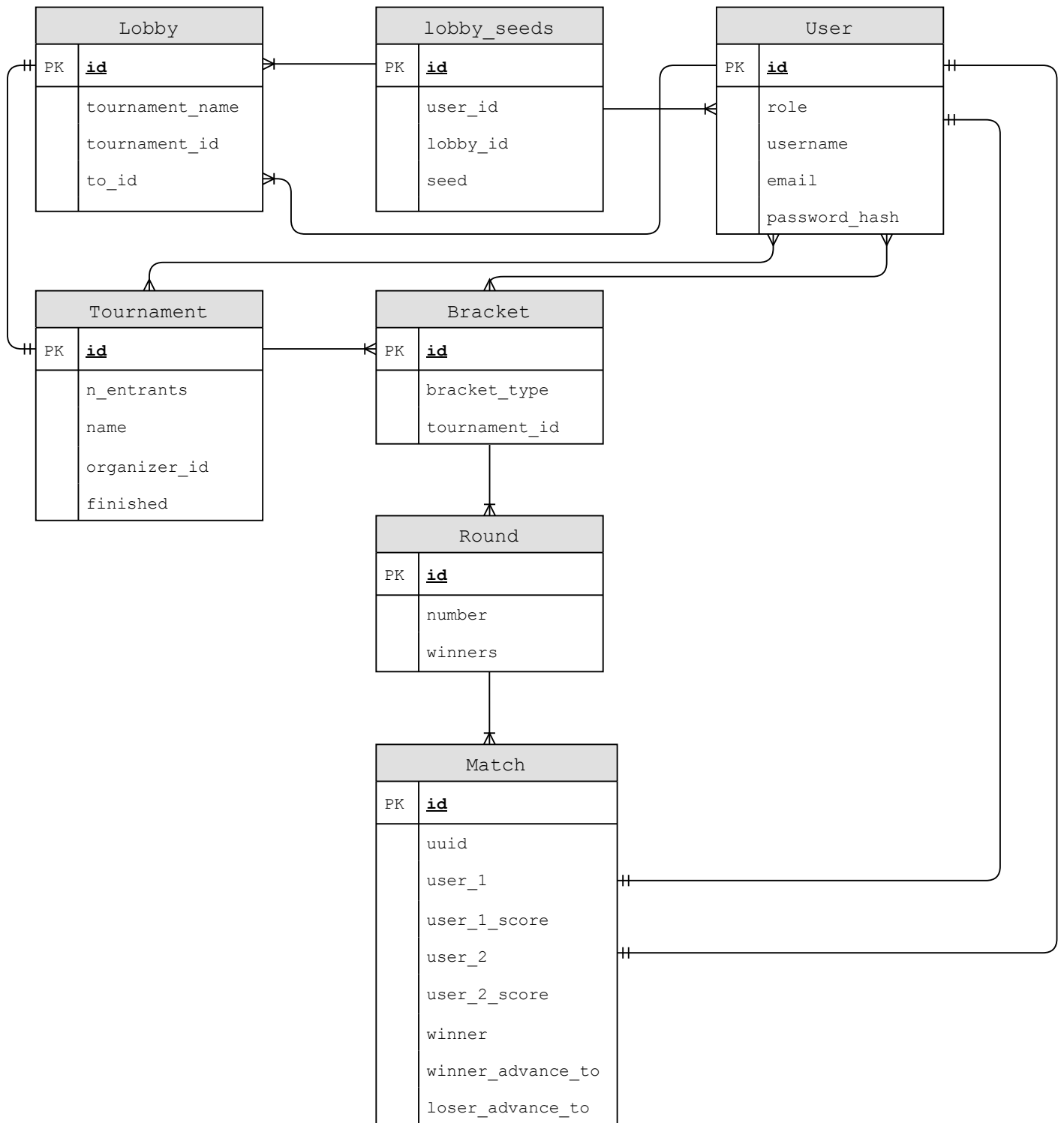


Figure 2: Brackit - Entity Relationship (ER) Diagram

Design

1 Description and Rationalization

- Use clear description of the structure of the components and its externally visible interfaces
- Clarify the physical location of where the classes will reside (e.g., on the client, on a server), as well as any external API
- Include references to your system's architecture (patterns, abstractions, data structures/ algorithms)
- An analysis of how your design minimizes coupling and accommodates changing requirements

Design Diagrams

Thanks to <http://agilemodeling.com/artifacts/classDiagram.htm#CompositionAssociations>

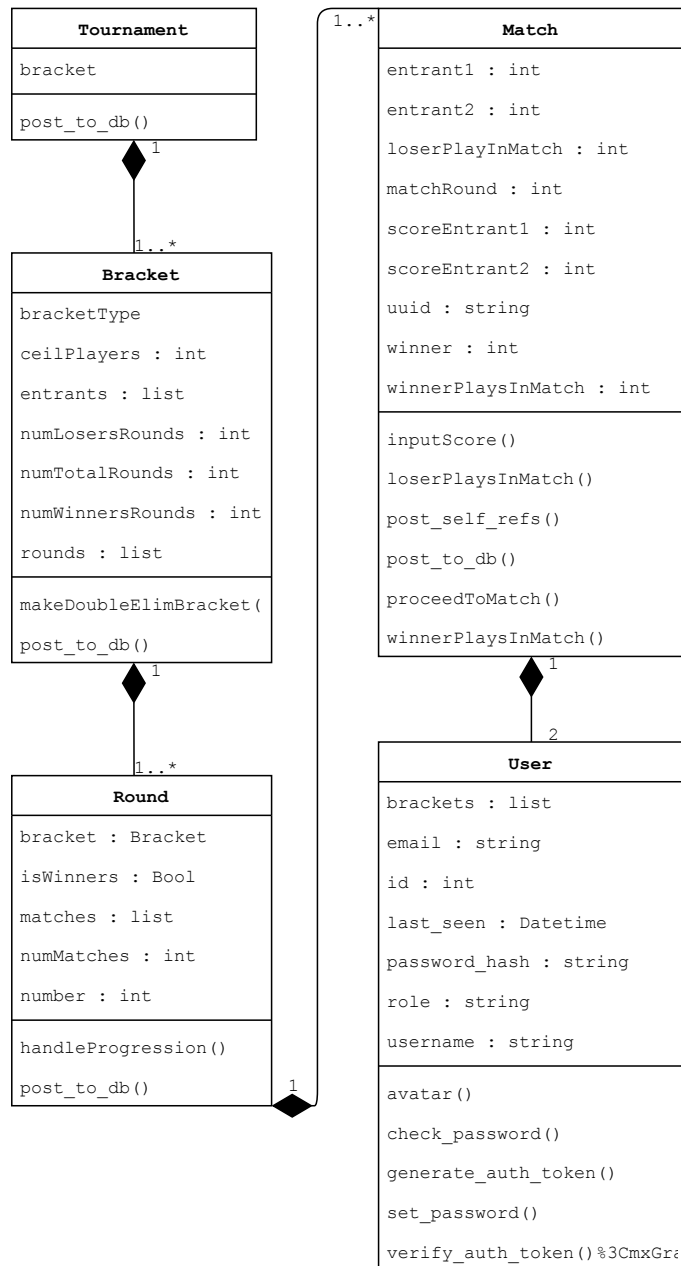


Figure 3: Brackit - UML Class Diagram