

# COMP 3004 - Deliverable #2 - Prototype Demo

## Brackit - Mobile Tournament Bracket Creation

### Metadata

**Team / App Name:** Brackit

**Team Member Names:**

Jaime Herzog: 101009321, Suohong Liu: 101002340, Xiyi Liu: 101004577, Alex Trostanovsky: 100984702

### Functionality Demonstrated

#### Real

1. User Registration
2. User Login and Authentication
3. (Manual) Tournament Creation
  - Demonstrates the correct implementation of Double Elimination Bracket Creation
  - Automatically generates Rounds and Matches within said bracket

### Status Report

#### Current Progress

1. Initialized logic to allow automatic migration of database models using **Flask-migrate**
  - Enables quick iterations over constantly changing user Models; Easier backend development;
2. Created **SQLAlchemy** models for **User**, **Tournament**, **Bracket**, **Round**, and **Match** entities.
  - **SQLAlchemy**'s Object Relational Mapper (ORM) enables seamless integration of Python Classes with SQL

#### Difficulties

1. **SQLAlchemy** does not natively support **jsonification** of user-defined models (required for Restful-API)
  - Resolved by using deserialization functionality provided by Flask-Marshmallow

### Overview of Upcoming Month

## Brackit - Component Diagram

