

# ShuttleQL

## SE464 Project Demonstrations

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# Overview

# Problem

- ▶ Hundreds of student playing at UW Badminton club
- ▶ Bad club management system
  - ▶ crowded line ups between games
  - ▶ manual error prone matchmaking
  - ▶ inefficient communication between execs and members

# Solution

## ShuttleQL

- ▶ Mobile web optimized player dashboard
- ▶ Web based admin management dashboard

# Functional Requirements

# Player Dashboard

- ▶ match checker
- ▶ announcement
- ▶ player profile

# Admin Management Dashboard

- ▶ remote session management
- ▶ player registration
- ▶ player checkin / checkout
- ▶ user management
- ▶ announcement broadcast
- ▶ match overrides

# Non-Functional Requirements



# Portability

- ▶ Player dashboard must work on both mobile chrome and safari browser
- ▶ Admin management dashboard must work on web chrome and safari browser

# Efficiency



# Evolvability

- ▶ Court numbers can be changed through a config file
- ▶ Court can be specified as Single or Doubles game type

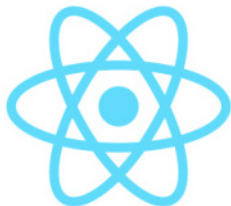
# Unfinished Requirements

# Dependability

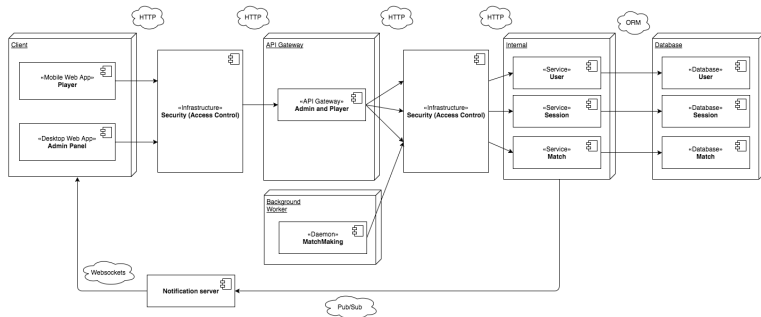


# Architecture

# Technologies



# Architecture Diagram





# Challenges

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- ▶ learning new technologies (scala, react)
- ▶ managing tasks
- ▶ micro services are difficult to deploy
- ▶ lack of time