ShuttleQL SE464 Project Demonstrations

Clement Hoang David Dong Jason Fang Tony Lu

University of Waterloo

Fall 2016

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 registeration
- 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

- Micro services are difficult to coordinate
- Deploying is expensive due to so many services

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





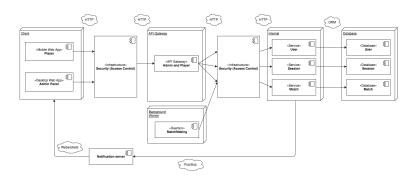








Architecture Diagram



Challenges

Challenges

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