Intramural Web Application

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Goals & Domain

- Give Gonzaga students and faculty an easy to use intramural web portal allowing them to participate in various sports.
- Hoping to form a more inclusive intramural system by not pushing users away with clunky design and ad-ridden pages
- Domain includes the Gonzaga students and faculty

Technology Used

- Barney web server
- Cps-gonzaga database
- Languages
  - MySQL - Database
  - PHP - Link between front-end and back-end
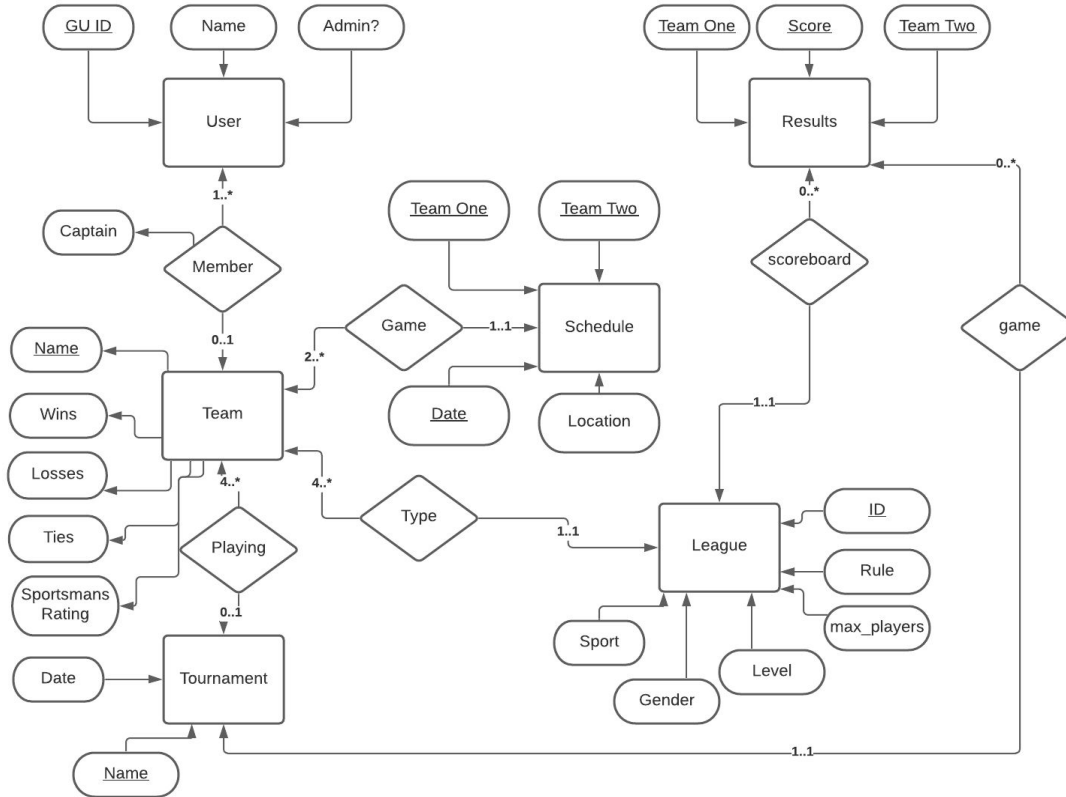 - HTML, CSS, Javascript - Front-end development

ER Diagram

Queries

- Getting league information for specific team

```
SELECT l.league_ID, l.gender,
    l.sport, l.league_level
    FROM team t JOIN teamInLeague
    t1 USING (team_n) JOIN league
    l USING (league_ID)
    WHERE t.team_n ?;
```

- Team stats from each team in league

```
SELECT t.wins, t.losses, t1.team_n
    FROM team t JOIN teamInLeague
    t1 USING (team_n) JOIN league
    l USING(league_ID) WHERE
    l.league_ID = ?;
```

Live Demo

Anticipated Workload & Indexes

- 25 different queries
- 3 prominent ones
  - SELECT team_n FROM team WHERE team_n = ?;
  - SELECT user_n FROM user WHERE GU_ID = ?;
  - SELECT ut.team_n FROM userOnTeam JOIN user u USING (GU_ID) WHERE GU_ID = ?;
- Indexes (not enough data for effect to be significant)
  - Index on team_n in schedule
  - Index on team_n in results
  - Index on GU_ID in userOnTeam

Thank You!