

Intramural Web Application

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A dark blue diagonal gradient bar that starts from the bottom left and extends towards the top right, covering the lower half of the slide.

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

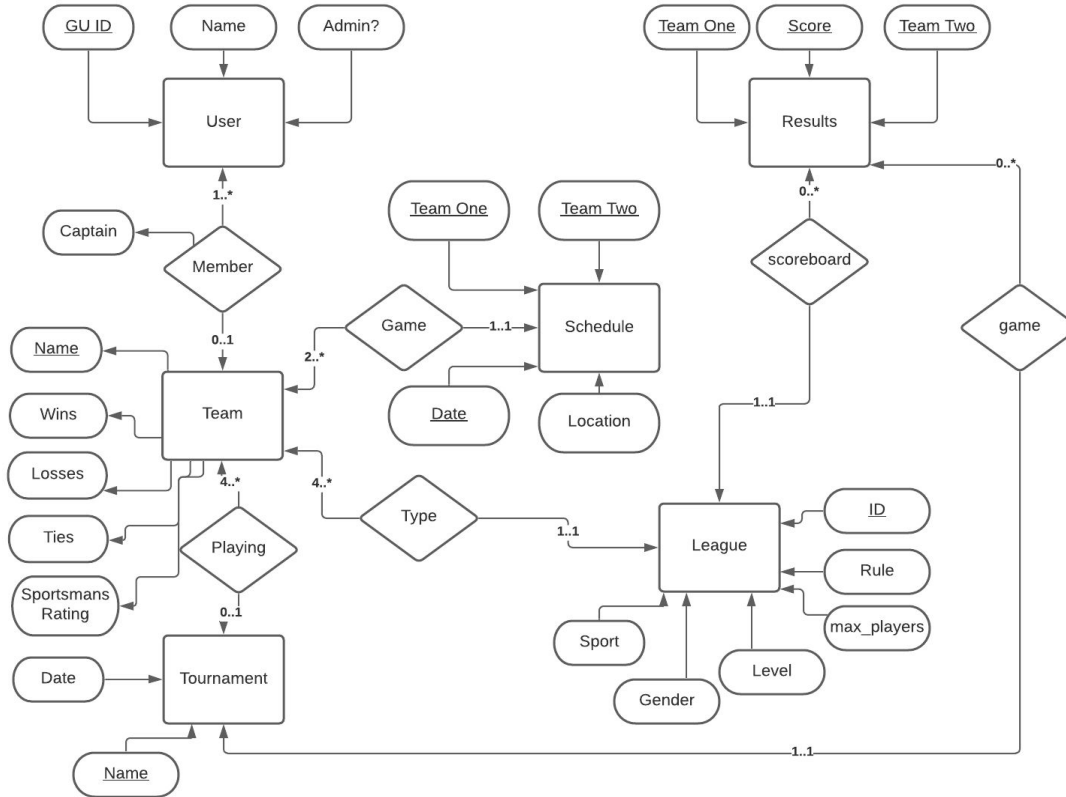
A screenshot of a web application titled "Gonzaga Intramurals" in a large, bold, blue font with a red outline. Below the title is a light blue rectangular box containing a login form. The form has the text "GUID:" in red, followed by a red horizontal line for input. Below the input line is a white rectangular button with the word "Login" in blue. The entire screenshot is framed by a thick red border.

Gonzaga Intramurals

GUID: _____

Login

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!