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CPSC 304 Project Specifications

Platform:

PHP/Apache and mySQL.

Queries, Reports and Changes for Different Users:

All users:

Query for information about results, rankings, leaderboards, records etc.
>   Can group by gender, age, division, sport (this will join at least 2 tables)
>   Create view for this new table

Query for information about competitions
Location, name, sport, spot, division, participants
Query (VIEW) for information about sports and divisions
Modify their personal information (birthdate, name, gender, height, weight)
Query for team results (this will join at least 2 tables)
Sign up for an account

Coaches:

Able to query for information of athletes that they coach
>   Name, height, weight, gender, rankings, competition results

Sign up their athletes for competitions
Able to create and modify training plans for athletes that they coach
Able to modify their own experience level and location on their profile
Able to accept athletes for coaching

Athletes:

Able to query for coaches that train a particular sport at a specific location
Able to view all information on all training plans created for them
View their drug tests results
Sign up for competitions
Can sign up for a team
Able to request coaching from a coach

Competition Managers:
Able to create new competitions and invite athletes to their competitions
Able to update start date, end date, invite only of their competitions
Able to query for information about athletes that sign up for their competitions
        Birthdate, weight, height, gender, drug tests taken, name, ranking
Able to set the result of a drug test for a particular athlete.
Determine if an athlete qualifies for a competition based on rank, age, gender and drug test results (this will be a complex query including at least 3 tables)
Able to update/insert results of competitions and update participation status of athletes
Able to delete divisions of Sports from a a competition

Division of Work:

Documentation - everyone
Application Logic - everyone
Code reviews - everyone

Morgan
        GUI design and functionality
        Integration testing
        Embedding of SQL statements

Tom
        SQL Query Generation, coding and testing
        Embedding of SQL statements
        Integration testing
        Data Generation

Emil
        SQL Query Generation, coding and testing
        Generate graphs and tables (data analytics/visualisation)
        Data Generation

Naman
        Unit testing
        GUI design and implementation
        Performance analysis

We anticipate this could change somewhat during implementation.