Project proposal

Project title: National Basketball Association Management System

Overview

Backend: Laravel

Frontend: React

Frontend-Backend Binding: Inertia.js

Database: SQLite

Authentication: Breeze

Project goal: Develop a full-featured web application to simulate and manage the operations of the National Basketball Association which include team management, match schedule, game statistics, season tracking, and news publishing.

* User features:
  + View dashboard for current season past, present and upcoming match:
    - Row 1 column1 (Recent game)
      * Team names
      * Wins, losses
      * Point score
      * Player stats (Most point score, most assists, etc.)
    - Row 1 column2 (Present or future game)
      * Team names
      * Wins, losses
      * Point score
      * Player stats (Most point score, most assists, etc.)
    - Row 1 column3
      * Schedule
    - Row 2
      * News report (Injuries, fighting, heat moments, etc.)
    - Row 3
      * NBA award (Past or present)
        + Champion team
        + Most valuable player
        + Most Improve player
        + Defensive player of the year
        + Rookie of the Year
  + Game
    - Row 1: Display schedule to select which game to watch
    - Row 2: Display game preview
    - Row 2 column 1: Total point with game detail button
    - Row 2 column 2: Game leader
    - Row 2 column 3: Game recap (new article)
    - Game detail
      * Display the date
      * All players with stats
      * Total stats
  + Schedule
    - Row 1: filter (Season, Calendar, team, etc.)
    - Row 2: Display the schedule and date
      * Column 1: display date and where to watch
      * Column 2: Conference and team
      * Column 3: Location
      * Column 4: Button
  + New
    - Home News: Most exciting news
    - Top News
    - NBA award
  + Stats
    - Home stats: Display 2 stats leader (daily stats and season stats)
      * Points
      * Assists
      * Rebounds
      * Etc.
    - Player stats: Display season stats
    - Teams stats: Display team stats
      * Points per game
      * Assists per game
      * Rebounds per game
      * Row 2: display teams list
* Admin: can manage all tables
* Employee: can manage all tables except auth tables

Table

* Authentication
  + User
    - Id: PK
    - Name
    - Email
    - Password
  + Role
    - Id: PK
    - Name
  + User Role
    - UserId
    - RoleId
* New module
  + New
    - Id: PK
    - Title
    - Content
    - PublishDate
    - Author
    - Image
* Basketball core module
  + Team
    - Id: PK
    - Name
    - ShortName
    - Logo
    - City
    - Stadium name
    - Conference
    - Divisions
    - Found year
  + Player
    - Id: PK
    - First name
    - Last name
    - TeamId
    - Image
    - Position
    - Birth date
    - Nationality
    - Height
    - Weight
    - College
    - Draft year
    - Status
  + Coach
    - Id: PK
    - First name
    - Last name
    - Birth date
    - Nationality
    - Image
  + Team Coach
    - TeamId
    - CoachId
    - SeasonId
    - Status
  + Roster
    - PlayerId
    - TeamId
    - SeasonId
    - Jersey number
    - Status
* Games and Statistics
  + Game
    - Id: PK
    - SeasonId
    - Game date
    - HomeTeamId
    - AwayTeamId
    - HomeTeamScore
    - AwayTeamScore
    - Arena
    - City
    - Attendances
  + Game stat
    - Id: PK
    - GameId
    - PlayerId
    - TeamId
    - Minute played
    - Points
    - Rebounds
    - Assists
    - Blocks
    - Steals
    - Turnovers
    - Fouls
* Statistics module
  + TeamSeasonStat
    - Id: PK
    - TeamId
    - SeasonId
    - Game played
    - Wins
    - Losses
    - Point scores
    - Point conceded
    - Goal difference
    - Points
  + SeasonAward
    - Id: PK
    - Award name
    - SeasonId
    - PlayerId
    - Value
  + Season
    - Id: PK
    - name
    - Start date
    - End date
    - Championship