# Interface Illustration - Soccer Tournament API

## Data Definition

### Team

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Read Result | Insert | Update | Notes |
| id | Integer | Valid | Not Required | Required | Unique identifier in database |
| name | String | Valid | Required | Required | Team name |

### **Game**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Read Result | Insert | Update | Notes |
| id | Integer | Valid | Not Required | Required | Unique identifier in database |
| roundNo | Byte | Valid | Required | Required | Round no |
| team1 | Integer | Valid | Required | Required | Team id for team1: Team.id |
| team2 | Integer | Valid | Required | Required | Team id for team2: Team.id |
| winner | Integer | Valid | Not Required | Required | Winner of this game |
| team1Name | String | Valid | Invalid | Invalid | Name of team1 |
| team2Name | String | Valid | Invalid | Invalid | Name of team2 |
| winnerName | String | Valid | Invalid | Invalid | Name of the winner |

### **Person**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Name | Data Type | Read Result | Insert | Update | Notes |
| id | Integer | Valid | Not Required | Required | Unique identifier in database |
| name | String | Valid | Required | Required | Team name |
| idDocNumber | String | Valid | Required | Required | Identification document number |
| teamId | Integer | Valid | Required | Required | Team id the person belongs to: Team.id |

### **Response<T extends Entity>**

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Data Type | Read Result | Notes |
| statusCode | Integer | Valid | Response status code |
| statusMsg | Byte | Valid | Response status message |
| entities | ArrayList<T> | Valid | For read, the result rows  For insert, the inserted id |

### **Status code & message**

|  |  |
| --- | --- |
| Status code | Status message |
| 0 | succeed |
| 1000 | internal error |
| 1001 | parameter is null |
| 1002 | parameter is invalid |
| 1003 | parameter is empty |
| 1100 | team name exists |
| 1101 | idDocNumber exists |
| 1102 | game exists |
| 1200 | team not exists |
| 1201 | game not exists |

## API

### Team

#### Get all teams

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/team/getAll |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Team> |
| parameters | N/A |
| Notes | Get all teams |

#### Get a team by id

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/team/getById |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Team> |
| parameters | Integer id |
| Notes | Get a team by id |

#### Write a team

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/team/write |
| Request Type | Post |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Team team |
| Notes | Insert/update a team |

#### Delete a team by id

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/team/delete |
| Request Type | Delete |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Integer id |
| Notes | Delete a team by id |

### Game

#### Get all teams

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/game/getAll |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Game> |
| parameters | N/A |
| Notes | Get all teams |

#### Get a team by id

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/game/getById |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Game> |
| parameters | Integer id |
| Notes | Get a game by id |

#### **Write a team**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/game/write |
| Request Type | Post |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Game game |
| Notes | Insert/update a game |

#### **Delete a team by id**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/game/delete |
| Request Type | Delete |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Integer id |
| Notes | Delete a game by id |

#### **Set result for a game**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/game/setGameResult |
| Request Type | Put |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Integer id, Integer winner |
| Notes | Set result for a game |

### Coach

#### Get all coaches

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/coach/getAll |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Person> |
| parameters | N/A |
| Notes | Get all coaches |

#### Get a coach by id

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/coach/getById |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Person> |
| parameters | Integer id |
| Notes | Get a coach by id |

#### **Write a coach**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/coach/write |
| Request Type | Post |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Person coach |
| Notes | Insert/update a coach |

#### **Delete a coach by id**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/coach/delete |
| Request Type | Delete |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Integer id |
| Notes | Delete a coach by id |

### Player

#### Get all players

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/player/getAll |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Person> |
| parameters | N/A |
| Notes | Get all players |

#### Get a player by id

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/player/getById |
| Request Type | Get |
| produces | application/json |
| Response Type | Response<Person> |
| parameters | Integer id |
| Notes | Get a player by id |

#### **Write a player**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/player/write |
| Request Type | Post |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Person player |
| Notes | Insert/update a player |

#### **Delete a player by id**

|  |  |
| --- | --- |
| Request Path | /api/soccerTournament/player/delete |
| Request Type | Delete |
| produces | application/json |
| Response Type | Response<Entity> |
| parameters | Integer id |
| Notes | Delete a player by id |