

# YSL RESTful API Specifications

Revised 9/21/2024

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## 1. Introduction

YSL provides a RESTful API for accessing data, including games, users, game officials and other data, in JSON format. Requests are sent to a URI starting with “YourSportsLeague.com/restapi”.

To use it, you first send a request with login credentials. For security, this request is sent as a POST request, with the parameters not part of the URI. In return, you get a collection of “user roles” for the user that logged in. See Appendix I for a list of YSL User Roles.

Each user role contains a “yslkey”, which is effective for 30 minutes for “normal” user roles, and 90 minutes for league officer user roles, such as League Administrators and Match Secretaries. Each subsequent request, all of which are GET requests, must start with a yslkey, and will return a “newkey” to use on the next request.

Dates in requests and responses are in the “yyyy-mm-dd” format, e.g., “2020-11-22”. Times in responses are in a 24 hour format, e.g., “15:30:00” for 3:30 PM.

Note that requests for “arrays” (collections of similar object, like games or players) may return empty arrays if no matching objects are found.

See subsequent sections for the details of specific requests.

## 2. Error Responses

Errors in request data will generate an error response. See Appendix II for a list of YSL Error

Numbers and their associated messages.

Response:

```
{
  "error" : {
    "errno" : 1,
    "message" : "Missing or Invalid login or password",
    "uri" : "/restapi",
    "query" : "login=login"
  }
}
```

### 3. Login Request

This request is the initial request to connect to the server and be validated. This has to be submitted as a POST request. It requires a login name and password that are associated with an active user on our web site, provided in either “x-www-form-urlencoded” or “json” format. These are supplied as parameters with the names “username” and “password”.

The request returns a user ID, a user name, and a collection of “user roles” this user has on our site. See appendix 1 for a list of possible roles and their IDs. Entity types are one of “League”, “Club”, “Team”.

If the data in the request do not represent a user in the YSL system, an error will be returned.

Request URI:

...?login=login

Request Parameters:

username=<user’s login name>

password=<password>

*Ex: yoursportsleague.com/restapi?login=login*

*<POST request key:value pairs>*

*username:jdoh*

*password:johnspassword*

Response:

```
{
  "userid" : 1234,
  "name" : "John Doe",
  "userroles" : [
    {
      "userroleid" : 12345,
      "role" : "Coach",
      "roleid" : 6,
      "entitytype" : "Team",
      "entityid" : 45678,
      "entity" : "Marauders",
      "title" : "Assistant Coach",
```

```

        "yslkey" : "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
    },
    {
        "userroleid" : 54321,
        "role" : "Referee",
        "roleid" : 8,
        "entitytype" : "League",
        "entityid" : 9023,
        "entity" : "My League",
        "title" : "Referee",
        "yslkey" : "ZYXWVUTSRQPONMLKJIHGFEDCBA"
    },
]
}

```

#### 4. Games/Byes Requests

To get a list of games or byes for a given date range.

Request URI Parameters are similar for the two types:

```

...?yslkey=<key>&gamedates=<start date>:<end date>
...?yslkey=<key>&byedates=<start date>:<end date>

```

*Ex:*  
*yoursportsleague.com/restapi?yslkey=ABCDEFGHIJKLMNOPQRSTUVWXYZ&gamedates=2020-01-04:2020-01-11*

Response (games):

```

{
    "newkey" : "RGSGQHQCXKKGKHGGYKHHSCXKRK",
    "games" : [
        {
            "gameid" : 709186,
            "date" : "2020-01-04",
            "starttime" : "09:00:00",
            "interval" : "60",
            "venueid" : 1234,
            "venue" : " King Field (MyLeague)",
            "hometeamid" : 13475,
            "hometeam" : "Conquerors",
            "awayteamid" : 56278,
            "awayteam" : "Desparadoes",
            "divisionid" : 3298,
            "division" : "U-14 Boys Rec"
        },
        {
            "gameid" : 709187,
            "date" : "2020-01-04",
            "starttime" : "10:00:00",
            "interval" : "60",
            "venueid" : 1234,

```

```

        "venue" : " King Field (MyLeague)",
        "hometeamid" : 13475,
        "hometeam" : "Conquerors",
        "awayteamid" : 56278,
        "awayteam" : "Desparadoes",
        "divisionid" : 3298,
        "venue" : "King Field (MyLeague)",
        "division" : "U-14 Boys Rec"
    },
    {
        "gameid" : 717053,
        "date" : "2020-01-11",
        "starttime" : "13:00:00",
        "interval" : "75",
        "venueid" : 5678,
        "venue" : "Washington Park (Theirleague)",
        "hometeamid" : 13475,
        "hometeam" : "Conquerors",
        "awayteamid" : 56278,
        "awayteam" : "Desparadoes",
        "divisionid" : 3298,
        "division" : "U-16 Girls Comp"
    }
]
}

```

Response (bytes):

```

{
  "newkey" : "TGSGGHRXCXKKGKHGGYKHHSCRK GK",
  "bytes" : [
    {
      "byeid" : 55275,
      "date" : "2020-01-04",
      "team" : "Laurie's Ladies",
      "division" : "U-16 Girls Comp"
    },
    {
      "byeid" : 55276,
      "date" : "2020-01-11",
      "team" : "Greta's Girls",
      "division" : "U-16 Girls Comp"
    }
  ]
}

```

## 5. Game Request

To get more information about a single game, given an ID

Request URI Parameters:

...?yslkey=<key>&game=<game ID>

Ex:  
*yoursportsleague.com/restapi?yslkey=TGSGGHHRCXKKGKHGGYKHHSCRKGGK&game=709187*

Response:

```
{
  "newkey" : "RGS GHHRCXKKGKHGGYKHHSCRK LK",
  "gameid" : 709187,
  "date" : "2020-01-04",
  "starttime" : "10:00:00",
  "interval" : "60",
  "venueid" : 1234,
  "venue" : " King Field (MyLeague)",
  "hometeamid" : 13475,
  "hometeam" : "Conquerors",
  "awayteamid" : 56278,
  "awayteam" : "Desparadoes",
  "divisionid" : 3298,
  "division" : "U-14 Boys Rec"
}
```

## 6. User Request

To get more information about a user, given an ID. If the user role represented by the yslkey is not authorized to view information on the user in question, an error is returned.

Request URI Parameters:

...?yslkey=<key>&user=<user ID>

Ex: *yoursportsleague.com/restapi ?yslkey=RGS GHHRCXKKGKHGGYKHHSCRK LK&user=1234*

Response:

```
{
  "newkey" : "QGS GKHRCXKKGKHGGYKHHSCQKGGK",
  "userid" : 1234,
  "displayname" : "John Doe",
  "firstname" : "John",
  "midname" : "C.",
  "lastname" : "Doe",
  "phone" : "(555) 123-4567",
  "address" : "1234 Main St.",
  "cityetc" : "MyTown, CA 91111",
  "emails" : [
    "john@doe.com",
    "john.c.doe@gmail.com"
  ]
  "textphones" : [
    "(555) 987-6543"
  ]
  "userroles" : [
```

```

    {
      "userroleid" : 12865,
      "role" : "Player",
      "roleid" : 8,
      "entitytype" : "Team",
      "entityid" : 45348,
      "entity" : "Musketeers",
      "title" : "Player"
    },
    {
      "userroleid" : 34431,
      "role" : "Umpire",
      "roleid" : 8,
      "entitytype" : "League",
      "entityid" : 76,
      "entity" : "Her League",
      "title" : "Umpire"
    }
  ]
}

```

## 7. Game's Officials Request

To get more information about officials assigned to a game, given the ID of the game. Note that the term for the “role” will be sport-specific, e.g., “referee” for soccer, “umpire” for baseball, etc.

Request URI Parameters:

...?yslkey=<key>&gameofficials=<game ID>

*Ex: yoursportsleague.com/restapi*

*?yslkey=QGSQKHCXKKGKGGYKHHSCQKGGK&gameofficials=709187*

Response:

```

{
  "newkey" : "QGSQKHLCLQHGKGTGGKKHSCCLKQK",
  "gameid" : 709187,
  "officials" : [
    {
      "userid" : 53480,
      "official" : "Sam Willett",
      "role" : "referee",
      "status" : "CONFIRMED"
    },
    {
      "userid" : 57344,
      "official" : "Samantha Willette",
      "role" : "asst. ref. 1",
      "status" : "ASSIGNED"
    }
  ]
}

```

```
}
]
```

## 8. Game's Reports Request

To see reports for a game, given the ID of a game.

There are two different types of game reports at YSL – “result” and “official”. The result report, as the name implies, just report the outcome of the game – scores or forfeits. The official report may contain either “general” reports on venue condition, tardiness of teams, etc., or “disciplinary” reports on the behavior of players or team officers.

Disciplinary reports will only be displayed for user roles authorized to see them – coaches, league officers, and game officials assigned to the game in question. Other users will only see the results reports and general official reports.

Request URI Parameters:

```
...?yslkey=<key>&gamereports=<game ID>
```

*Ex: yoursportsleague.com/restapi*

```
?yslkey=QGSKGHRCXKKGKHGGYKHHSCQKGGK&gamereports=709187
```

Response:

```
{
  "newkey" : "KGSKGHRCXTKGKHGGYKHHSCGKLK",
  "gameid" : 709187,
  "scorestatus" : "in dispute",
  "scorereports" : [
    {
      "reporter" : "Umpire Samantha Willette",
      "homescore" : "3",
      "awayscore" : "2",
      "forfeit" : "none",
      "reportstatus" : "played"
    },
    {
      "reporter" : "Umpire Sam Willett",
      "homescore" : "1",
      "awayscore" : "2",
      "forfeit" : "none",
      "reportstatus" : "played"
    }
  ]
  "officialreports" : [
    {
      "reporter" : "Samantha Willette",
      "type" : "General",
      "report" : "Good Game!"
    },
    {
```

```

        "reporter" : Samantha Willette",
        "type" : "Ejection",
        "report" : "Player Bill Pfaff was ejected for foul language"
    }
]
}

```

## 9. Division Request

To get more information about a division, given the ID of the division.

Request URI Parameters:

...?yslkey=<key>&division=<division ID>

*Ex: yoursportsleague.com/restapi ?yslkey=KGSQKHCXTKGKHGGYKHHSCGKLK&division=22823*

Response:

```

{
  "newkey" : "LGSGLHTCLVHGKGTGGKHHSCXKKK",
  "divisionid" : 22823,
  "name" : "Toddlers",
  "competition" : "MyLeague, Winter 2020, League Play",
  "agegroup" : "U-4",
  "gender" : "Boys",
  "playclass" : "Class IV",
  "notes" : "",
  "teams" : [
    {
      "teamid" : 12913,
      "name" : "Arby's Rangers",
    },
    {
      "teamid" : 12914,
      "name" : "Bumblers",
    },
    {
      "teamid" : 12915,
      "name" : "Costco Champs",
    },
    {
      "teamid" : 12916,
      "name" : "Desparacitos",
    }
  ]
}

```

## 10. Team Request

To get more information about a team, given a team ID

Request URI Parameters:

...?yslkey=<key>&team=<team ID>



Ex: [yoursportsleague.com/restapi?yslkey=LGSGGLHTCLVHGKGTGGKHHSCXKKK&team=12916](http://yoursportsleague.com/restapi?yslkey=LGSGGLHTCLVHGKGTGGKHHSCXKKK&team=12916)

Response:

```
{
  "newkey" : "HGSGLHTCLVHGKGTGGKHHSTKHK",
  "teamid" : 12916,
  "name" : "Desparacitos",
  "parent" : "MyLeague",
  "parenttype" : "League",
  "parentid" : 206,
  "colors" : "Black and Blue",
  "officers" : [
    {
      "user" : "Samantha Willette",
      "userid" : 57344,
      "title" : "Coach"
    },
    {
      "user" : "Chris Carter",
      "userid" : 58754,
      "title" : "Team Manager"
    }
  ]
}
```

## 11. Team's Player Request

To get more information about the players on a team, given a team ID

Request URI Parameters:

...?yslkey=<key>&players=<team ID>

Ex: [yoursportsleague.com/restapi?yslkey=HGSGLHTCLVHGKGTGGKHHSTKHK&players=12916](http://yoursportsleague.com/restapi?yslkey=HGSGLHTCLVHGKGTGGKHHSTKHK&players=12916)

Response:

```
{
  "newkey" : "TGSGKHVCLVHGKGTGGKHHSCCLKQK",
  "teamid" : 12916,
  "team" : Desparacitos,
  "players" : [
    {
      "userid" : 116605,
      "name" : "Humphrey Bogart",
      "jerseynum1" : "777",
      "jerseynum2" : "999",
      "position" : "forward"
    },
    {
      "userid" : 116604,
      "name" : "Sam Spade",
      "jerseynum1" : "123",
      "jerseynum2" : "8786",
      "position" : "goalie"
    }
  ]
}
```

```
}
]
}
```

## 12. Team's Games Request

To get all the games/byes for a team, given a team ID and a start and end date. Note that arrays of both games and byes are returned, possibly empty.

Request URI Parameters:

...?yslkey=<key>&teamgames=<team ID>:<start date>:<end date>

Ex:

*yoursportsleague.com/restapi?yslkey=TGSGKHVCLVHGKGTGGKHHSCCLKQK&teamgames=12915:2020-01-04:2020-01-11*

Response:

```
{
  "newkey" : "YGSGHHRCLYHGKGTGGGHKSCVKRK",
  "games" : [
    {
      "gameid" : 709187,
      "date" : "2020-01-04",
      "starttime" : "10:00:00",
      "venue" : "X (TEST)",
      "division" : "Test"
    }
  ]
  "byes" : [
  ]
}
```

## 13. Official's Assignments Request

To get all the assignments for a game official, given the official's user role ID and a start and end date. Note that an array of assignments is returned, possibly empty.

Request URI Parameters:

...?yslkey=<key>&officialassignments=<official role ID>:<start date>:<end date>

Ex:

*yoursportsleague.com/restapi?yslkey=YGSGHHRCLYHGKGTGGGHKSCVKRK&officialassignments=34431:2020-01-04:2020-01-11*

Response:

```
{
  "newkey" : "RGSGRHRCLYHGKGTGGGHKSCYKQK",
  "assignments" : [
    {

```

```

        "gameid" : 709187,
        "date" : "1/4/20",
        "times" : "10:00 AM - 11:00 AM",
        "role" : "1st base ump"
        "status" : "ASSIGNED"
        "home" : "C"
        "away" : "Desparacitos"
    }
]
}

```

## 14. Venue Request

To get more information about a venue, given an ID

Request URI Parameters:

...?yslkey=<key>&venue=<venue ID>

*Ex: yoursportsleague.com/restapi ?yslkey=RGSGRHRCLYHGKGTGGGHHKSCYKQK&venue=709187*

Response (for a venue that is neither a sub-venue of a larger venue or shared with another league):

```

{
  "newkey" : "XGSGGHQCLGHGKGTGGHGKSCVKKK",
  "venueid" : 1232,
  "name" : "Excelsior High",
  "abbr" : "X",
  "parentvenue" : "none",
  "parentvenueid" : "none",
  "sharedwith" : [
  ]
  "directions" : "I80 South to Market St. exit. Left 6 blocks to Stanford St. Park in lot next to field",
  "comments" : "Fairly small seating area"
}

```

Response (for a venue that IS a sub-venue of a larger venue and is shared with two other leagues):

```

{
  "newkey" : "RPGSDWRGHQPKJTSGHGKGTGGGSC",
  "venueid" : 5678,
  "name" : "King South",
  "abbr" : "KS",
  "parent" : "",
  "parentvenue" : "MLK High",
  "parentvenueid" : "9785",
  "sharedwith" : [
    {
      "league" : "Youth League",
      "leagueid" : 37
    },
    {
      "league" : "Senior League",
      "leagueid" : 15
    }
  ]
}

```

```

    }
  ]
  "directions" : "786 Main St",
  "comments" : "need to set up before use"
}

```

## 15. League Venues Request

To get more information about all venues used by your league

Request URI Parameters:

...?yslkey=<key>&leaguevenues=true (the league is specified by the userrole accessing this request)

*Ex: yoursportsleague.com/restapi ?yslkey= RPGSDWRGHQPKJTSGHGKGTGGGSC&leaguevenues=true*

Response:

```

{
  "newkey" : "WGDHGREQHEGKHTZGHGKSCVJLZW",
  "venues" : [
    {
      "venueid" : 1232,
      "name" : "Excelsior High",
      "abbr" : "X",
      "parentvenue" : "none",
      "parentvenueid" : "none",
      "sharedwith" : [
        ]
      "directions" : "I80 South to Market St. exit. Left 6 blocks to Stanford St. Park in lot
next to field",
      "comments" : "Fairly small seating area"
    },
    {
      "venueid" : 5678,
      "name" : "King South",
      "abbr" : "KS",
      "parentvenue" : "MLK High",
      "parentvenueid" : "9785",
      "sharedwith" : [
        {
          "league" : "Youth League",
          "leagueid" : 37
        },
        {
          "league" : "Senior League",
          "leagueid" : 15
        }
      ]
      "directions" : "786 Main St",
      "comments" : "need to set up before use"
    }
  ]
}

```

} ]

## Appendix I. YSL User Roles

Role ID	Role	Comment
3	League Administrator	Controls all aspects of a league
4	Match Secretary	Manages competition/scheduling tasks
5	"OFFICIAL" Coordinator	Manages game officials (Referee, Umpire, etc.)
6	Coach	Manages a team
8	"OFFICIAL"	Game Official (Referee, Umpire, etc.)
9	Player	
10	Team Official	Helps a coach manage a team
11	Other League Officer	Helps league administrator manage a league
13	"VENUE" Coordinator	Manages venues (Field, Court, etc.)
14	"OFFICIAL" Assessor	Evaluates game officials (Referee, Umpire, etc.)
15	Club/School Rep	Manages an organization affiliated to a league
17	User	Basic role for all YSL users
18	League President	
19	League Representative	Represents an affiliate league in the parent
21	Division Match Secretary	Match secretary for specific divisions
22	Results Secretary	Tracks results for specific divisions
23	League Treasurer	
24	"VENUE" "OFFICIAL" Coordinator	Manages game officials on specific venues
25	"OFFICIAL" Coordinator Assistant	Assists game official coordinator
26	"OFFICIAL" Assignor	Assigns game officials to games
28	Disciplinary Chair	Manages disciplinary reports/actions for league

## Appendix II. YSL Error Numbers

#	Message	Comment
1	"Unknown request parameter"	Did not recognize a parameter
2	"Too few parameters"	Need more parameters for this request
3	"Missing or Invalid login or password"	The supplied login/password pair don't match a YSL user
4	"Missing yslkey"	You need to provide a key to request this data
5	"Invalid yslkey"	The supplied key is not a valid key
6	"Expired yslkey"	The supplied key is too old
7	"Division not found"	There is no division matching the supplied ID
8	"Game not found"	There is no game matching the supplied ID
9	"Invalid Start Date"	Start date not properly formed
10	"Invalid End Date"	End date not properly formed
11	"Need two dates"	Only one required date provided
12	"User not found"	There is no user matching the supplied ID
13	"User Role not found"	There is no user role matching the supplied ID
14	"Team not found"	There is no team matching the supplied ID

15	"Venue not found"	There is no venue matching the supplied ID
16	"Key Role is not"	The key role is not the right role to view the requested data
17	"Key Role isn't authorized to"	The key role is not authorized to view the requested data
18	"Missing Start and End Dates"	No required dates provided