

General Submission info

Please complete **one** of the projects outlined below and submit your solution to this email address by **Saturday, September 9th**. Please submit your project code and any associated files needed to run the project either by sending us the source files attached to the email or sending us a link to a repository (Github, Bitbucket or similar). After we receive the results, and if you are selected for the next stage, we will contact you within the next week in order to book a phone interview.

Please complete the project using Django, Flask, Pyramid, or another Python framework. Supporting your project with Bootstrap or front-end toolkits is accepted, but not required.

Please include a readme with instructions for how to run your solution either in the email or alongside the source code. You may also wish to deploy your project and send us the URL but this is not required.

We understand that you may be under challenging time constraints and don't expect your project to be production-ready or include features that go far beyond the basic requirements. You may use any applicable technologies.

Project 1 – Team and Player Stats Application

Task: Build a Python web application from provided design templates that displays MLB news, standings, team rosters and player statistics.

Features your application should include:

- Home page showing divisional standings and recent news stories
- A page for each team showing the players on their roster
- A page for each player displaying some biographical information (name, age, height, weight, etc.) and tables of the player's seasonal batting and/or pitching statistics
- Leaderboards page displaying statistical leaders for some hitting and pitching categories of your choice (HR, OPS, ERA, Strikeouts, etc)

Templates for the home, team, and player pages are included which you should use as a starting point but may modify or include additional elements if you wish.

The data required for the application can be retrieved from the MLB StatsAPI (see the *Resources* section below). You may choose to build your application directly using the StatsAPI or download the data to a local database or files if you prefer.

Resources

Recent MLB News stories can be retrieved from the **MLB RSS feed**.

<https://www.mlb.com/feeds/news/rss.xml>

Team news feeds are also available, see <http://mlb.mlb.com/news/rss/> for details

All other data is available from the **MLB StatsAPI**. <https://statsapi.mlb.com>

Data	Endpoint
MLB Teams	/api/v1/teams?sportId=1
Team (e.g. for id 141)	/api/v1/teams/141
Standings (MLB)	/api/v1/standings?leagueId=103,104
Roster (e.g. for id 141)	/api/v1/teams/141/roster
Players (e.g. for id 543807)	/api/v1/people/543807
Stat Leaders	/api/v1/stats/leaders?leaderCategories=homeRuns
Player Stats	/api/v1/people/543807?hydrate=stats(group=[hitting, pitching, fielding], type=[yearByYear])
Roster stats	/api/v1/teams/141/roster/Active?hydrate=person(stats(type=season))

A complete list of the leaderCategories options is available here:

<https://statsapi.mlb.com/api/v1/leagueLeaderTypes>

Here are some additional graphical resources you may want to incorporate into your project:

Team Logos	https://www.mlbstatic.com/team-logos/141.svg
Player head shots (e.g. id 672640). Larger versions can be requested by adding @2x or @4x etc. before the .png extension	https://content.mlb.com/images/headshots/current/60x60/672640.png
Ballparks (e.g. id 14)	https://prod-gameday.mlbstatic.com/responsive-gameday-assets/1.2.0/images/fields/14.svg