**ATP Demo project**

**This site demonstrates the following:**

1. View a list of players by rank
2. Sort the players into a favorites list
3. View the bio of a player in the top 10
4. Utilization of Entity Framework
5. Data migrations
6. Persisting data in a SQL database
7. AJAX call with JavaScript
8. Utilizing ViewComponents to make application behave similar to a SPA
9. Data caching
10. Dependency Injection
11. API requests

**3rd party libraries:**

***Twitter Bootstrap***

Why?

Has built-in responsiveness utilizing the grid system. It’s been thoroughly tested on all browsers. Many themes are readily available. I utilized the Bootstrap accordion in this demo.

**Design considerations:**

***Caching***

* The list of top players likely doesn’t change often per day. Cache refresh set at an hour.
* Player bios are unlikely to change often, so cache refreshes daily.

***Database***

When the “players” list is downloaded, players who have not been previously added will be added to the local database for quick reference.

The demo has only one user; however, the tables are designed for multiple users. The “favorite” table has a “User + PlayerId” key because this combination would be the search criteria most often utilized.

***AJAX***

Sometimes to avoid an inefficient page reload, a JavaScript ajax call must be made. I have included one that updates the Player Detail.

**Known issue:**

The application worked without errors yesterday, but an error occurred today where Novak Djokovic’s bio is not appearing due to error ERR\_HTTP2\_PROTOCOL\_ERROR. I am investigating why this is occurring.