

CAS CS591-MEAN

Problem Set 8

Let's extend our Angular skills.

Requirements

0. Create a new branch, PS8. Be sure that your .gitignore file has an entry to exclude /node_modules from being pushed to github. Create a new PS8 directory to hold your work.
1. Refactor your Node app from PS4 to incorporate a mongoDB database that works like a very simple cache. On the first call from your Angular app, your Node app should call the third-party API, then store the result in mongoDB before sending the response to your Angular app.
2. On subsequent calls for the same data from Angular to Node, return the result from your mongoDB store rather than making the call out to the third-party API. Include a field on the response that indicates whether the response came from a third-party call or from cache. Display this indicator on your Angular app so that a user can easily see if a response had been cached or not.
3. **Optional stretch goal, worth +10 points:** Add a second API call on the Node side that uses data from the first call as its input. For example, the first call gets the temperature in a city, and then uses that temperature to suggest an activity (movie if it's raining, rodeo if it's sunny), along with details of that activity. There should be a dependency between the two APIs demonstrated.
4. Push your homework files to your GitHub repo.
5. Submit the GitHub repo/branch on Gradescope to complete the assignment.