Java Spring Developer Assignment

Problem statement

Make a Rest API for the given requirement in Java.

Requirements

Basic

1. The API ***entercandidate*** shall take a name as a parameter and save that into a table with a a count(vote count) initialized to 0.

a) Use local variables instead of a database to store the data.

1. The API ***castvote*** shall take a name as a parameter and increment the vote count and return it. It should enter vote only for a valid candidate.
2. The API ***countvote*** shall take a name as a parameter and should return the latest vote count. Validate candidate name.
3. The API ***listvote*** should return all names and votecounts. The return value is in JSON.
4. The API ***getwinner*** should return the name of the candidate who got largest number of votes.
5. APIs shall be simultaneously executed by multi-users.
6. Implement unit testing

Example API usage

1. http://localhost:8080/***entercandidate***?name=ajay
2. http://localhost:8080/castvote?name=ajay
3. http://localhost:8080/countvote?name=ajay
4. <http://localhost:8080/listvote>
5. http://localhost:8080/getwinner

Assignment submission

* Push your codebase to github and share with us. Commit often with meaningful messages (we would check the commit history).  Please do not use company name “Nuchange” while naming the repo.
* Mandatory files of your github repo’s root folder
  + Usage guide and features implemented, as readme.txt file.
  + Documentation on architecture and design as architecture.txt file.
  + Diagram the database schema in schema.png
* **Demonstrate the project and screen-record the same with your voice commentary. Send it to us on WhatsApp or email.**
* Any additional features implemented, should be clearly stated in guide.txt and will be given bonus points.

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