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Sprint Document: 24-Hour Sprint

Sprint Goal:

Efficiently implement advanced functionalities of the vaccination center management application, including user login, citizen and vaccination center management, and mapping citizens to vaccination centers.

Sprint Duration:

24 hours (Start: [start time], End: [end time])

User Stories:

- → As a user, I want to log in to the application using valid credentials.
- → As a user, I want to add citizens' data to the MySQL database.
- → As a user, I want to retrieve all citizens' data.
- → As a user, I want to retrieve the data of a specific citizen using their ID.
- → As a user, I want to track the vaccination status of all citizens in the country.
- → As a user, I want to add a vaccination center to the MySQL database.
- → As a user, I want to map citizens to specific vaccination centers.
- → As a user, I want to retrieve all citizens associated with a specific vaccination center.
- → As a user, I want to retrieve all vaccination centers' data.
- → As a user, I want to retrieve the data of a specific vaccination center using its ID.
- → As a user, I want to update a citizen's data.
- → As a user, I want to delete a specific citizen's data using their ID.
- → As a user, I want to update the data of a specific vaccination center.
- → As a user, I want to delete a specific vaccination center's data using its ID.
- Tasks:
- 1. Set up the MySQL database with tables and relationships. (2 hours)
- 2. Implement the Entity Layer, including Vaccine Center and User entities with mappings. (1 hour)
- 3. Implement the Repository Layer for CRUD operations on citizens and vaccination centers. (2 hours)
- 4. Implement the Service Layer with dependency injection and interface segregation principle. (2 hours)
- 5. Create the Controller Layer and expose the required APIs: (4 hours)
- 6. Implement the user login API endpoint.(1 hours)

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- 7. Implement APIs for adding citizens, retrieving all citizens, and retrieving a specific citizen by ID.(1 hours)
- 8. Implement APIs for tracking vaccination status and adding a vaccination center. (1 hours)
- 9. Implement APIs for mapping citizens to vaccination centers, retrieving associated citizens, and retrieving all vaccination centers. (1 hours)
- 10. Implement APIs for retrieving a specific vaccination center by ID, updating citizen data, deleting a citizen's data, updating vaccination center data, and deleting a vaccination center's data. (1 hours)
- 11. Implement validation and exception handling for the API endpoints. (2 hours)
- 12. Write unit tests for the implemented functionalities. (1 hours)
- 13. Perform integration testing to ensure components work correctly. (2 hours)
- 14. Refactor and optimize the codebase as necessary. (1 hours)
- 15. Document the API endpoints and usage. (1 hour)
- 16. Push the source code to a GitHub repository. (1 hour)
- Acceptance Criteria:
- Users can log in using valid credentials.
- Citizens' data is successfully stored in the MySQL database.
- All citizens' data can be retrieved.
- Specific citizen data can be retrieved using their ID.
- Vaccination status of citizens can be tracked.
- Vaccination centers can be added to the database.
- Citizens can be mapped to specific vaccination centers.
- Citizens associated with a specific vaccination center can be retrieved.
- ❖ All vaccination centers' data can be retrieved.
- ❖ Data of a specific vaccination center can be retrieved using its ID.
- Citizen data can be updated.
- Specific citizen data can be deleted using their ID.
- Vaccination center data can be updated.
- ❖ Specific vaccination center data can be deleted using its ID.