

phase3-End project

Vaccination Center

Writeup

- **Vaccination center registration:** The application should allow vaccination centers to register themselves with the government. This will include providing information such as the center's name, address, contact details, and the type of vaccines they offer.
- **Help citizens reach out to the centers for their vaccinations**
- **Track the vaccination status of all citizens in the country**
- **Track vaccination centers in each city**
- **Support the use of CRUD database operations for the citizen and vaccination center data**
- **Map users to specific vaccination centers**
- **Create a database using MySQL**
- **Create the necessary code for the various layers of the application**
 - **Entity Layer:** Create Vaccine Center and User entities with appropriate relationship mappings
 - **Repository Layer:** Create a layer for all database operations
 - **Service Layer:** Demonstrate dependency injection and interface segregation principle
 - **Controller Layer:** Expose necessary APIs such as:
- **Vaccination slot booking:** The application should allow citizens to book vaccination slots at registered vaccination centers. This will include providing information such as the citizen's name, age, and contact details.
- **Vaccination status tracking:** The application should allow citizens to track their vaccination status. This will include information such as the date and time of their vaccination, the type of vaccine they received, and the next date for their booster shot.

- **Vaccination data reporting:** The application should allow the government to collect and report vaccination data. This data will be used to track the progress of the vaccination campaign and to identify areas where more resources are needed.