**Status Tracker for Enrollees in Health Care Program**

The below solution will cater to the ask of the users being able to track the activation status for all the enrollees to a certain health care plan. Major functionalities needed are:

* Get the details of Enrollees and their declared dependents (if any).
* Add Enrollees and respective dependents (if any).
* Modify existing Enrollees and respective dependents (if any).
* Delete/Remove Enrollees and respective dependents (if any).
* Activate/Deactivate Enrollees.
* Send email/sms notification whenever any detail is added/modified.(This functionality can be built up but haven’t been asked for)

The solution architecture will include the use of the following technologies:

**Frontend**: Angular 9.X or React and Node Js

**Backend**: Service layer: Rest-Api as microservice within spring boot framework.

DAO layer: Either of Mysql Driver config or JPA/Hibernate implementation can be used.

**DB**: Mysql.

**Interaction:** Json format will be used for interaction between frontend and backend.

Below functionalities will be served using different service end points/URI’s that will cater to all the needs:

1. Call to get the data of all Enrollees and related dependents to showcase.
2. Call to validate and add the Enrollees and related dependents and return an appropriate response in case of successful and unsuccessful validation of the provided data and data in DB.
3. Call to modify the Enrollees and related dependents.
4. Call to delete the Enrollees and related dependents.
5. Call to activate/deactivate Enrollees.

All the above calls will cater to exception handling at all layers of the backend application to appropriately validate and process the data and add/delete/retrieve data from DB.