Assignment Name:    eMSP Account & Card Service

Description:

Account is an object which identified by 'email', Account has multiple Cards which have same contract ID  (must generated with EMAID format).

Account could be Created, Activated, Deactivated

Card could be Created, Assigned, Activated and Deactivated.

Target:

Develop RESTFul APIs for the following operations.

                    - Create Account

                    - Change status of Account

                    - Create Card

                    - Assign Card to an Account

                    - Change status of Card

                    - Query Account & Cards by date time 'last\_updated' with pagination.

Data Type:

RFID:  UID, Visible Number

EMAID: <https://support.hubject.com/hc/en-us/articles/8946415679645-2-4-E-Mobility-Authentication-Identifier-EMAID>

Requirement:

                    1. Finish programming, both runnable API and Unit Test. Code must be on github.com.

                    2. CI pipeline. Github action was recommanded.

                    3. Deploy the application to Azure & AWS (free tier. Tips: only one month for Free).

                    4. Must have data validation and format checking, corresponding response should be designed.

                    5. Must have 'Dockerfile'.

                    6. Must have RDBMS with design.

                    7. Source code must be written in Java.

8. Domain-Driven Design

Nice to have:

                    1. CD pipeline.

                    2. Cloud infrastructure diagram.

                    3. Integration test case.

                    4. Event Driven Design.

                    5. IaC.

                    6. Shell scripts.

Time to finish:     3~4 weeks.