***Case Study :***

*NTTData has a social networking site. In this social site data is shared by users having three different sections within the same application.*

***Application:***

As a user, I want to see a home page with three sections

1. View data (registered users)
2. Add data (registered users)
3. Delete Data (registered users with Admin Role).

View Data: As a user with rights, I want to access the view data and see a list with 3 columns,

* Title (String)
* Description (String)
* Creation (Date)
* User (String)

Add Data: As a user with rights, I want to access the Add data section and add a new line:

* Title (length between 1 to 30) - Mandatory
* Description (length between 1 to 200) - Mandatory
* Creation date (UTC) – Added by Backend.
* User (String) – Unique and added by the Backend

Delete Data: As a user with rights, I want to access the Delete data section and delete a line:

* Confirmation popup to delete the line,
* If as a user I have no internet connection I want to store my changes and save them after I have the connection again.

***Architectural Requirements***

* FrontEnd and Backend hosted in Azure
* *DevOps:* IaC, CI/CD, Repos

***Security Requirements***

* *The only points to be exposed will be the frontend and backend implementation.*
* *The remaining resources will be added through private networks.*
* Each API should be applicable independent **Scale out** and **Scale up.**

***Tasks***

1. **NTTData** wants a first Draft Architecture proposing the best Azure resources for the proposal having an MVP and taking into account saving as much money as possible.
2. **NTTData** also wants to know what could be the best architecture, taking into account High Availability, Disaster and Recovery Plan, private resources, full scaling, single endpoint with subdomains and etc… having no money restriction.
3. **NTTData** wants to have a brief blueprint picture the DevOps having:
   * Branches.
   * Main project structure
   * IaC
   * CI/CD

***Tools***

* Diagrams: DrawIO (<https://drawio-app.com/>)