**Friend Management POC**

This POC is developed to provide Friend management system with following APIS

1. To connect 2 users
2. To get list of friends of given user
3. To get list of common friends between 2 users
4. To enable subscription from requester to target
5. To enable unsubscription from requester to target
6. To get list of subscribers

**Technology Stack**

* Spring Boot
  + This helps quickly start development of standalone application
  + Helpful to develop restful web services & comes with built in server for deployment
  + Supports JDBCTemplate for communicating with database
* Swagger –
  + provides UI to test rest end points
* Deployment using pivotal (PCF)
* Database- H2, in memory database which is fast & serves the need of this POC.

List of Rest Endpoints

1. To connect 2 users

Path – /add

Input - {

"requestor": "santosh@gmail.com",

"target": "reema@gmail.com"

}

Sample output

{

"status": "Success",

"message": "Successfully connected"

}

Error handling

1. To get list of friends of given user

Path – /showFriendList

Input - {

"email": "preeta@gmail.com"

}

Sample output

{

"status": "Success",

"count": 1,

"friends": [

"som@gmail.com"

]

}

1. To get list of common friends between 2 users

Path – /showCommonFriends

Input - {

"friends": [

"preeta@gmail.com","santosh@gmail.com"

]

}

Sample output

{

"status": "Success",

"count": 1,

"friends": [

"som@gmail.com"

]

}

1. To enable subscription from requester to target

Path – /subscriber

Input - {

"requestor": "preeta@gmail.com",

"target": "ankush@gmail.com"

}

Sample output

{

"status": "Success",

"message": "Subscribed successfully"

}

1. To enable unsubscription from requester to target

Path – /unsubscriber

Input - {

"requestor": "preeta@gmail.com",

"target": "ankush@gmail.com"

}

Sample output

{

"status": "Success",

"message": "Unsubscribed successfully"

}

1. To get list of subscribers

Path – /showsubscriber

Input - {

"sender": "preeta@gmail.com",

"text": "Hi @abc@gamil.com"

}

Sample output

{

"status": "Success",

"friends": [

"som@gmail.com",

"abc@gamil.com"

]

}

**Table structure**

Following is table structure

FriendManagement is main table where all friends connections & subscriptions. Unsubscribe table is history table where an entry is made for every unsubscribe API call.

