

Objective – Flatten the user hierarchy data

Expose two Rest APIs using Spring boot Microservice application.

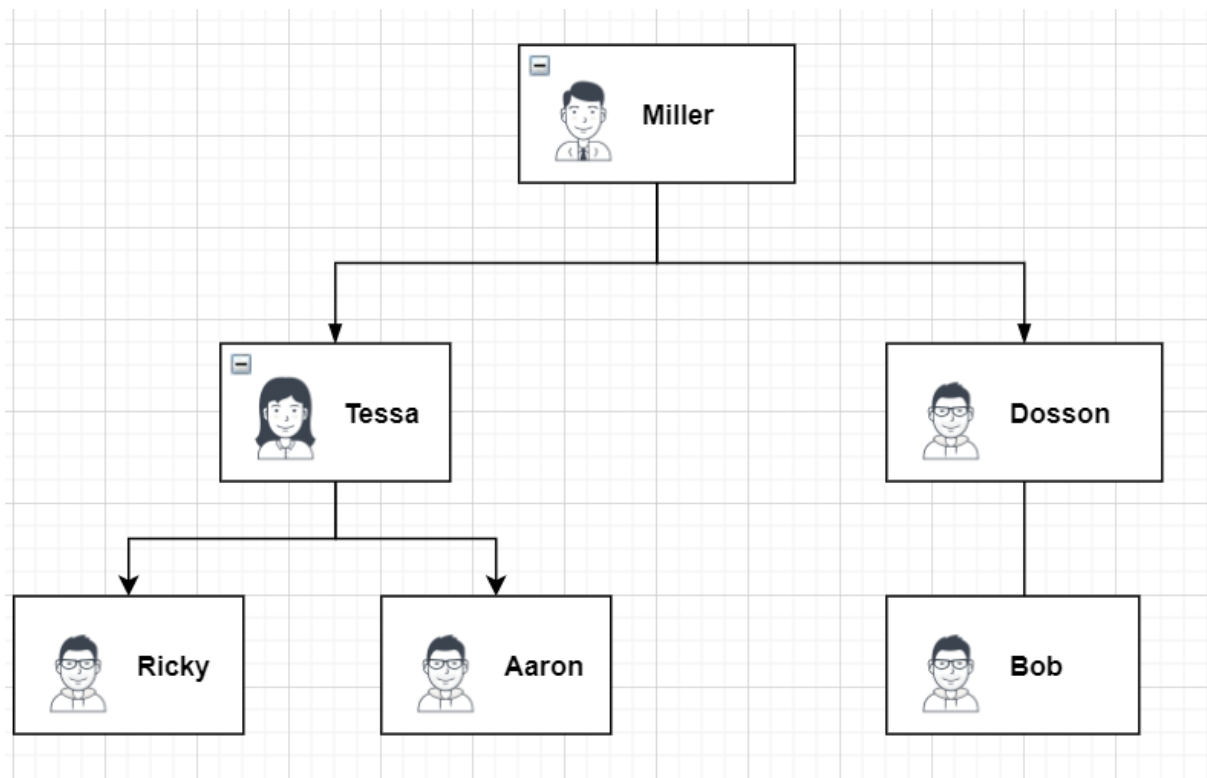
Given:

1. User Table
2. User Hierarchy

APIs to be created:

1. Create a Rest API to insert user access for a given user in **USERACCESS** table.
2. Create a Rest API to insert all users access in **USERACCESS** table (Hierarchy given **TEAMHIERARCHY** table)

Team hierarchy illustration.



a). Manager should be access all his/her team members data to the leaf level.

b). Team member should be able to access his peer's data (including his/her manager).

*Provided if peer is not a manager. *

Use case: Miller can access all team members data as illustrated above

- ➔ Tessa, Ricky and Aaron can have access among themselves.
- ➔ Dosson can access Bob and Bob can access Dosson only.

Data model attached as below.

*Appropriate data type can be used for each of the database attribute

Tables					
user					
teamhierarchy					
useraccess					
static data					
user				teamhierarchy	
empid	accesskey	country		empid	managerid
Miller	TRMLLR	SG		Tessa	Miller
Tessa	TRTSSA	SG		Dosson	Miller
Dosson	TRDSSN	HK		Ricky	Tessa
Ricky	TRRCKY	SG		Aaron	Tessa
Aaron	TRARON	SG		Bob	Dosson
Bob	TRBOB	HK			
Expected output in the below format					
useraccess					
empid	Access Key	Country	subuser	subuser-accesskey	subuser-country
Miller	TRMLLR	SG	Miller	TRMLLR	SG
Miller	TRMLLR	SG	Tessa	TRTSSA	SG
Miller	TRMLLR	SG	Dosson	TRDSSN	HK
Miller	TRMLLR	SG	Ricky	TRRCKY	SG
Miller	TRMLLR	SG	Aaron	TRARON	SG
Miller	TRMLLR	SG	Bob	TRBOB	HK
Tessa	TRTSSA	SG	Tessa	TRTSSA	SG
Tessa	TRTSSA	SG	Ricky	TRRCKY	SG
Tessa	TRTSSA	SG	Aaron	TRARON	SG
Aaron	TRARON	SG	Tessa	TRTSSA	SG
Aaron	TRARON	SG	Ricky	TRRCKY	SG
Aaron	TRARON	SG	Aaron	TRARON	SG
Ricky	TRRCKY	SG	Tessa	TRTSSA	SG
Ricky	TRRCKY	SG	Ricky	TRRCKY	SG
Ricky	TRRCKY	SG	Aaron	TRARON	SG
Dosson	TRDSSN	HK	Dosson	TRDSSN	HK
Dosson	TRDSSN	HK	Bob	TRBOB	HK
Bob	TRBOB	HK	Dosson	TRDSSN	HK
Bob	TRBOB	HK	Bob	TRBOB	HK