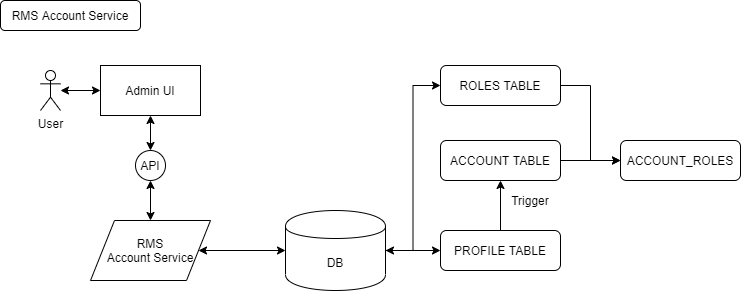
***RMS Account Management Service***

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# Introduction Account Management Service:

## Overview:



## Business/Requirement Of Account Management:

### Requirements:

Language: Java using Spring Boot + Restful APIs + Security with Json WebToken (HS512)

Database: PostgreSQL

Require APIs:

Api/account/create

Api/account/login

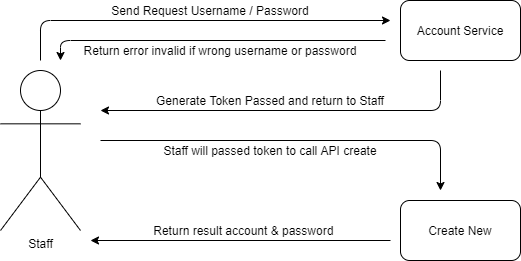
Api/account/modifyPassword

Api/Security/generateToken

Api/account/listAllAccount – **Admin or High level only**

### Business:

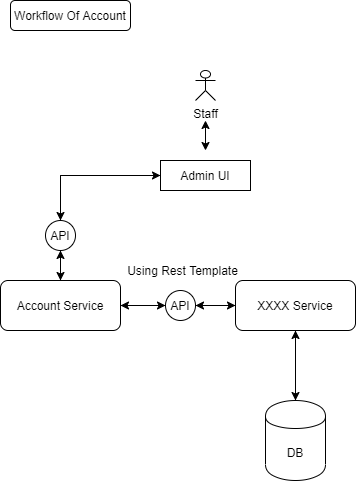
Staff (or HR/Admin if IT Company) will access to rms website and login with role Staff (or HR/Admin) then create new account also information of users (or newcomers) in page new user. The System will insert those info to database and return result to Staff, Staff will handover info for users.



For generate token will build in account service, **another services** need to call into each and cache token of that user logged account.

For create new info of user, all of fields no need to check (all of fields will validate on admin UI). All info will be insert into table PROFILE. There are 2 ways to create account name for user:

* Table **PROFILE** will active trigger after insert only and insert into table **ACCOUNT** table also insert into table **ACCOUNT\_ROLES**.
* On the system will insert into both of table **PROFILE** (info) and insert account name into table **ACCOUNT**, then based on staff select roles for user, it will insert into **ACCOUNT\_ROLES**.



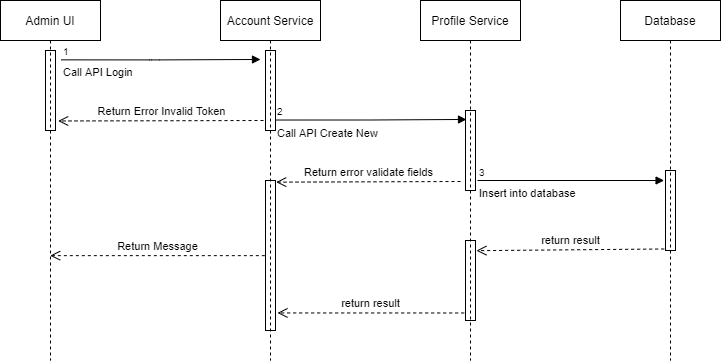
**Account Name**: will take **first letter of first name and merge with last name**, to **avoid duplicate account** system will add latest number (**using ID**) in last of account.

**Password**: will **auto generate** and encode and send into database (secure info password of user), but need to response real password in first create info for user.

***Note:*** Each password will has length at least 8 digits and will contains:

* + 1 Uppercase letter
  + 1 Lowercase letter
  + 1 numberic
  + 1 special character

Api/Account/CreateNew call API from Profile Service.



First account created will be require newbie (new staff) change password at first time. To know which account is new create and old created that will have the flag “**N**” for new account and empty for old account,

When new staff first login, will be show up message please change password at your first time login. Confirm yes the system will link to page change password.

After changed password, the system will auto login with input that username and new password to authenticate and generate password (this step will auto go to main page of RMS).

### Validation:

*Case 1*

*Account Name* should not empty: error will handle from website UI and throw error message: “***Please input username!***”

*Password* should not empty: error will handle from website UI and throw error message: ”***Please input password!***”

*Case 2*

*Account Name not existed*: when user try to input account not exist into website UI, the system will handle for website UI that query username and return message back to UI: “***Username not existed!!***”

*Case 3*

*Account Name or Password invalid:*

Error will handle by The System back-end side. The flow is when user input password, system will matches between password was stored in database and password was input from user. If it error, token won’t generate (it will return null).

Website UI will take null token and throw error for user “***Invalid Username or Password****”*

*Case 4*

***Advance Security block account if wrong 5 times: (New Request)***

This point only work after all requirements above completed.

When user forget password and trying to input 5 times, the system will auto setting status active in database to blocked account. When user input any password again, UI will throw error message: “***Your Account has been blocked, Please send contact to administratior***”

