**mHealth App Documentation**

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MainActivity.java

**package** edu.uw.medhas.mhealthsecurityframework;

imports from android and security framework

MainActivity contains functions for app

SecureDatabase creates a database for the app to use

Void onCreate – Sets the first layout to show; creates navigation bar; creates the database using the app database function in App.java; deletes all the keys from keystore

Void onBackPressed – Defines the code for when the back button is pressed in the app

Boolean onNavigationItemSelected – User selects an item from the list which selects the new view to be shown;

First id nav\_password\_be is for creating an account, finalizes all the edittexts, userservice, textviews, and buttons; If button is clicked it checks the password, then checks user and attempts to create a new one

Second id nav\_internal\_annotation is for inserting prescription data, edittexts, userservice, textviews, and buttons; if btnStore is clicked it gets the text from the editbox and attempts to insert it; if btnRetrieve is clicked it returns the data that is stored in the storage

Third id nav\_acl\_user is for creating or deleting a new user with a certain id; edittexts, userservice, textviews, and buttons; btnCreate gets the id of what you want the new user id to be and the id of a user with the privilege, if it has the right authentication it will create the user; btnDelete works the same as btnCreate but deletes the user if it can find it.

Fourth id nav\_acl\_privilege is for creating new roles; edittexts, userservice, textviews, and buttons; if btnCreate is clicked it gets the title of the role and the user id of the user with the authentication, If the suer has the right privileges it creates the new role.

App.java

**package** edu.uw.medhas.mhealthsecurityframework;

imports from android and security framework

App creates a new instance of the App.

It creates a database and sets the database name to “secure\_db”

App get() returns the App instance

On create is builds the data base and sets the instance to the class

SecureDatabase getDb returns the db