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### Section 1 - Crc cards

Class: LoginActivity

Parent Class: AppCompatActivity

Responsibilities:

- 1. onCreate Sets up the login form
- 2. attemptLogin Attempts to login to account
- 3. isEmailValid Validate Email
- 4. isPasswordValid Validate Password
- 5. showProgress Shows the progress UI/Hides login form
- 6. addEmailsToAutoComplete adds emails to database
- 7. ProfileQuery Stores User's profile
- 8. \*Lets you login with/register a user profile

### Collaborators:

1. UserLoginTask

Class: UserLoginTask

Parent Class: aSyncTask

Responsibilities:

- 1. dolnBackground
- 2. onPostExecute
- 3. onCancelled
- 4. Represents a login/registration task to authenticate user

### Collaborators:

1.

Class: RegisterActivity

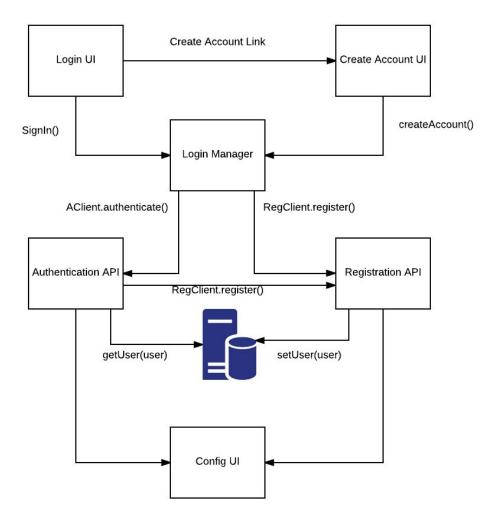
Parent Class: AppCompatActivity

Responsibilities:

1. onCreate

Collaborators

## Section 2 : Systems Architecture design



## **Section 3: System Design explanation**

## LoginManager:

// this holds the different options the user can choose, from both login pages. We pass this through APIs to do condition checks ENUM = {FB, GOOGLE, CUSTOM}

## Objects:

AuthenticationClient

RegisterClient

UserObj = new User(getEmail(), getPassword())

### Methods:

// from the login page when the user clicks FB or Google login. Assume they are existing users now, if not will prompt to register later signIn()

// from the create account page, goes straight to register api createAccount()

from signIn() do AuthenticationClient.authenticate(ENUM\_CHOSEN, userObj) from createAccount() do RegisterClient.register(ENUM\_CHOSEN, userObj)

try catch all this or throw, we may catch exceptions from other apis like "user already exists" from registration api. This gets displayed on the screen, maybe similar to how validation is

```
AuthenticationAPI:
Objects:
RegisterClient
methods:
authenticate(ENUM_CHOSEN, userObj):
      - read firebase check if exists read(userObj.getEmail())
      if exists then move on, change view
      if not RegisterClient.register(ENUM_CHOSEN, userObj)
RegistrationAPI:
Objects:
methods:
register(ENUM_CHOSEN, userObj)
```

- if fb enum go to fb create page to confirm

- custom login goes straight to register

- if google enum go to google create page to confirm

- writes user to database
- changes view to config

fbRegisterPage()
googleRegisterPage()

errors:

user already exists