The flow of user's registration

When user register, they can choose several register options

1) Register with **Google account**:
   - **Registration**: users first need to click on "Continue/Register with Google"
   - **Choosing account**: user can pick which account that they want to register with. If user don't have any account saved in google, user can also login to their google account.
   - **Google authentication**: Google use OAuth service to authenticate user's google account. (Google's OAuth service let our app to access user data from another app, which is Google)
   - **Return user info**: After that, Google copy the essential user information (email, name... etc) to our app database.
   - **Register user info**: After a successful authentication, the app will create a new account for user based on the essential user information.
   - **Successful notification**: Lastly, the app will send a successful registration to user email, and log the user in their account.

2) Register with **Email account**:
   - **Registration**: users first need to fill in essential information: username, password, email (and any other important information if we have any)
   - **Verification**: The app verifies if that information is correct and already exist or not.
   - **Email verification**: If all the information is correct, the app will send a verification code to user email, and user need to copy and paste it in the registration page.
   - **Email confirmed**: If the code is correctly registered, the app will save the user information to the database and create a new account for user.
   - **Successful notification**: Lastly, the app will send a successful registration to user email, and log the user in their account.

The DFD level 0 diagram of user's registration