

DANIEL GRAHAM PHD

OAuth DEEP DIVE

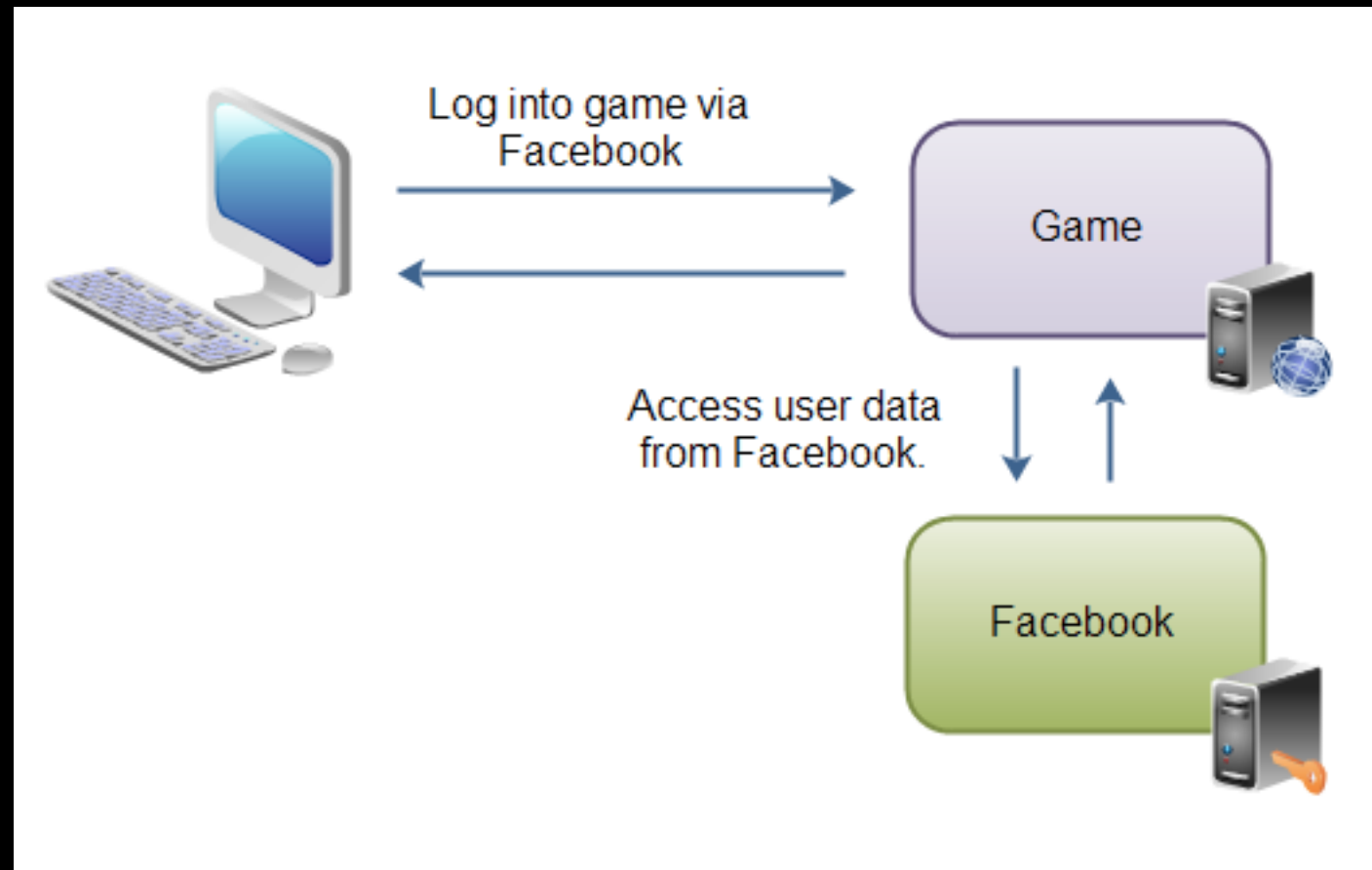
FUN VIDEO EXPLAINING OAUTH

<https://youtu.be/Oy5F9h5JqEU>

- First minute

OAUTH 2.0

- There are two version of OAUTH 2.0 and OAUTH 1.0

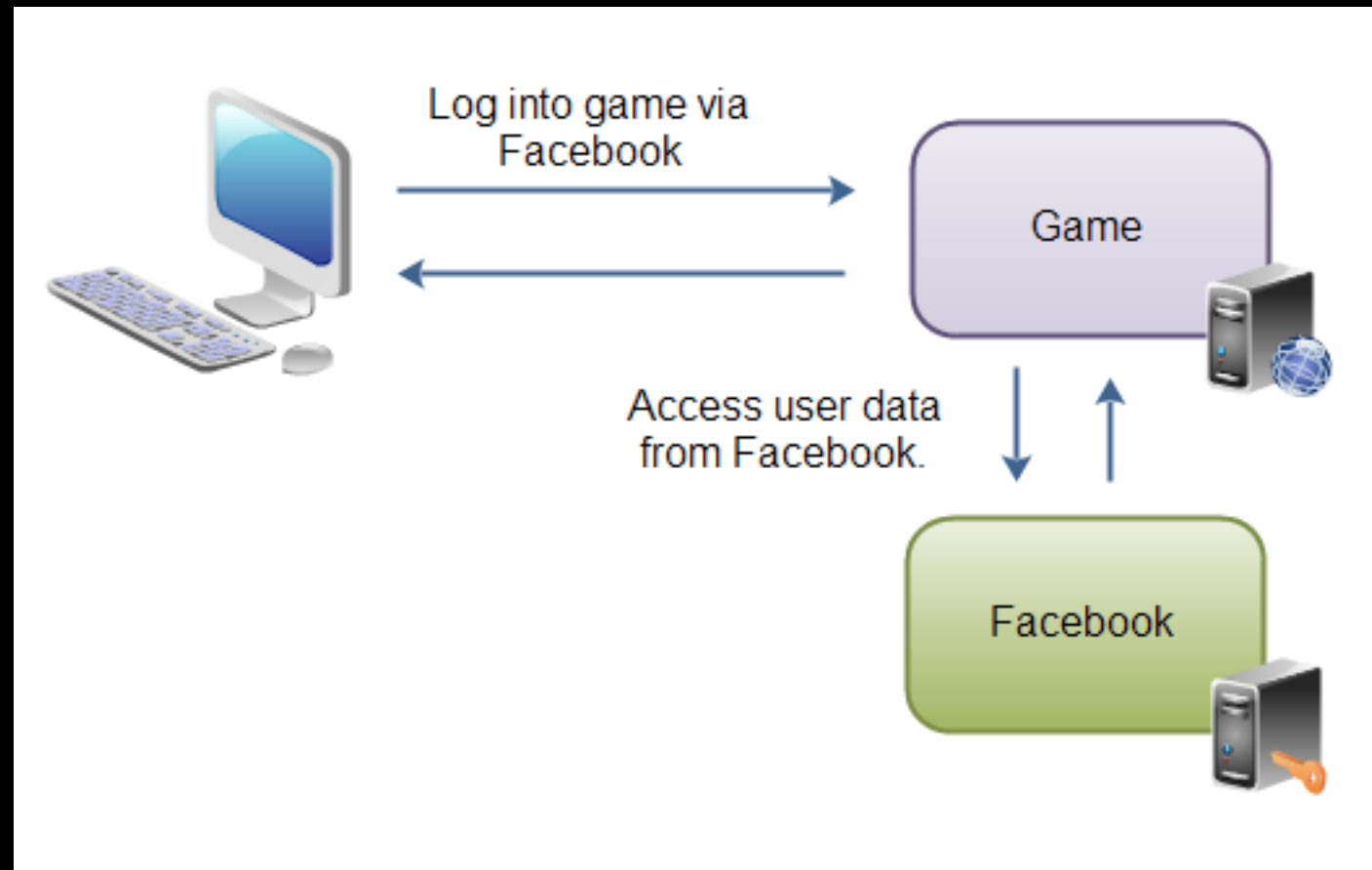


OAUTH 1.0 WAS MORE COMPLICATED
AND INVOLVES CERTIFICATES

<https://tools.ietf.org/html/draft-ietf-oauth-v2-23>

OAUTH 2.0

- The GAME application **does not** get username and password from facebook



<https://tools.ietf.org/html/draft-ietf-oauth-v2-23>



LOGIN WITH FACEBOOK



EXPO
APPLICATION

FACEBOOK
AUTH SERVER

FACEBOOK
RESOURCE
SERVER



LOGIN WITH FACEBOOK



EXPO
APPLICATION

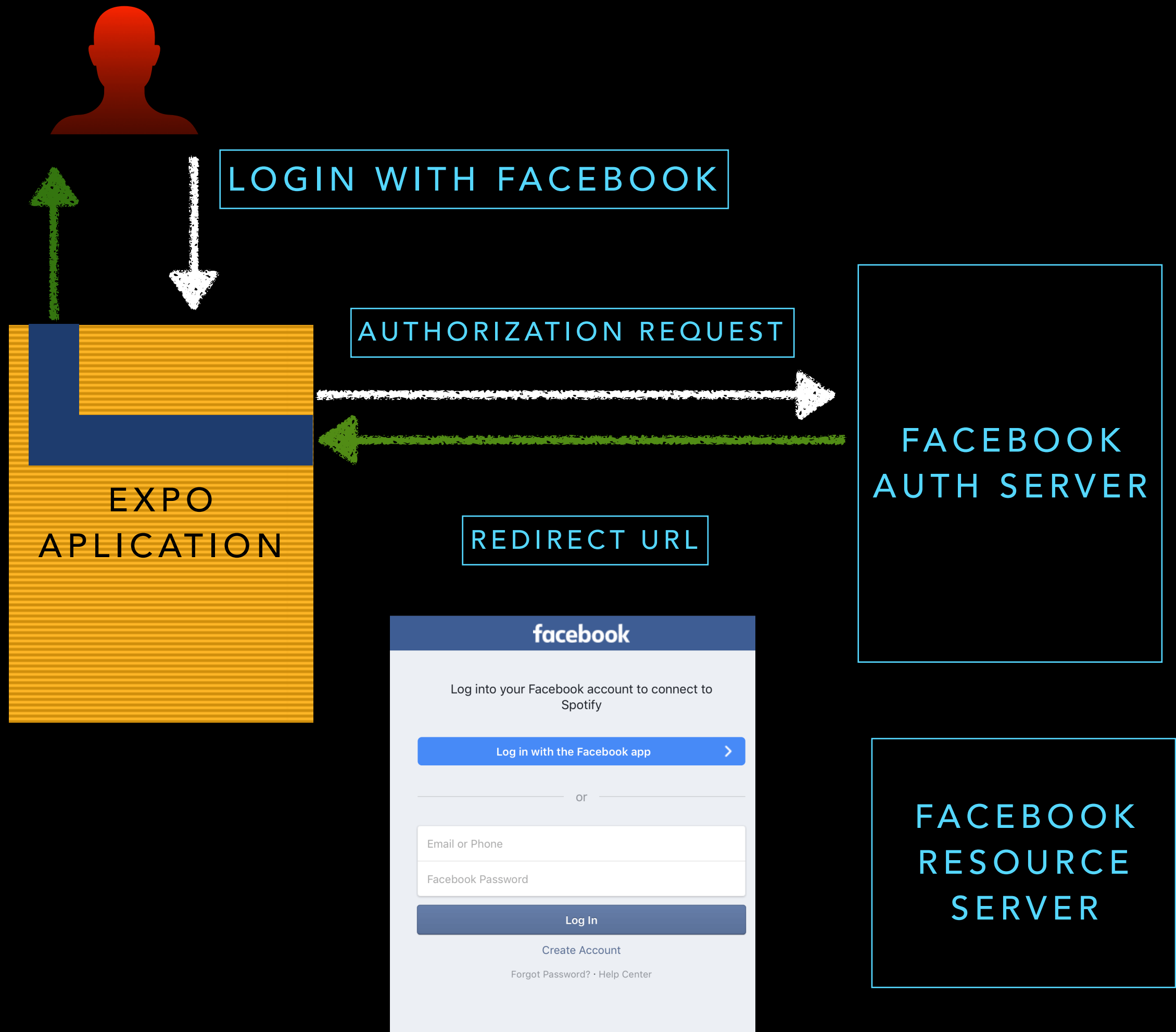
AUTHORIZATION REQUEST



FACEBOOK
AUTH SERVER



FACEBOOK
RESOURCE
SERVER





LOGIN WITH FACEBOOK



AUTHORIZATION REQUEST



CLICKS GRANTS PERMISSIONS



FACEBOOK
AUTH SERVER

EXPO
APPLICATION



Simple Social Auth will receive:
your public profile. ⓘ

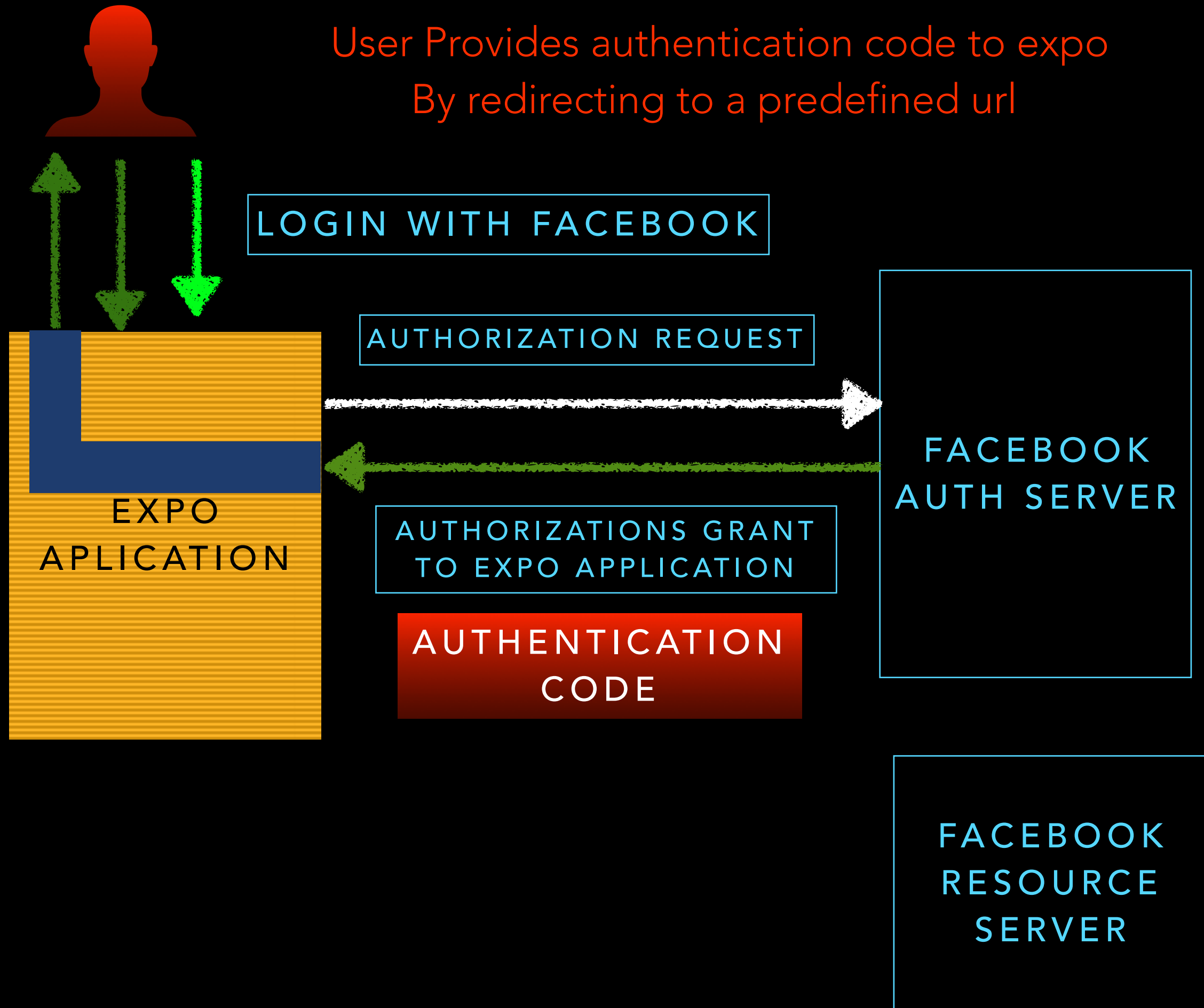
☒ Review the info you provide

Continue as Vitor

Cancel

FACEBOOK
RESOURCE
SERVER

User Provides authentication code to expo
By redirecting to a predefined url





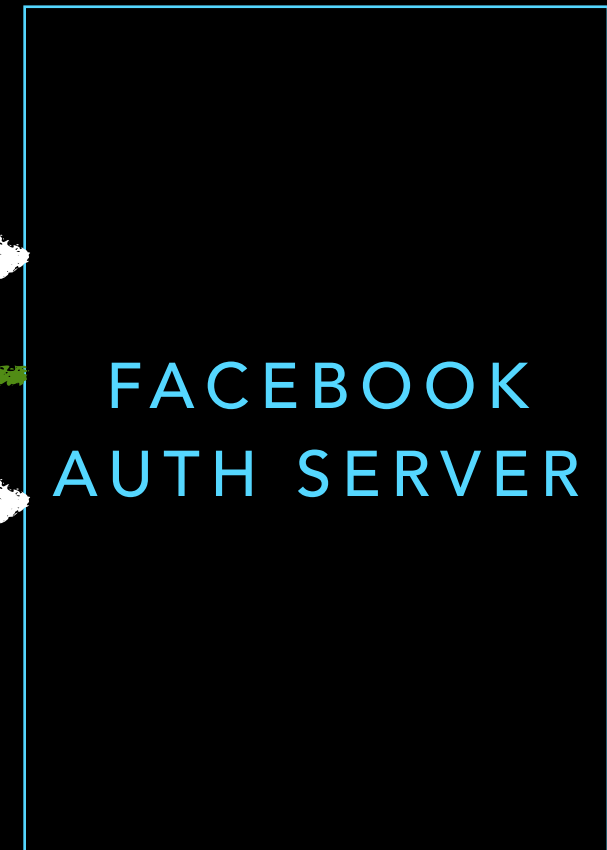
LOGIN WITH FACEBOOK



AUTHORIZATION REQUEST



AUTHENTICATION
CODE, CLIENT ID
CLIENT SECRET



FACEBOOK
RESOURCE
SERVER





LOGIN WITH FACEBOOK

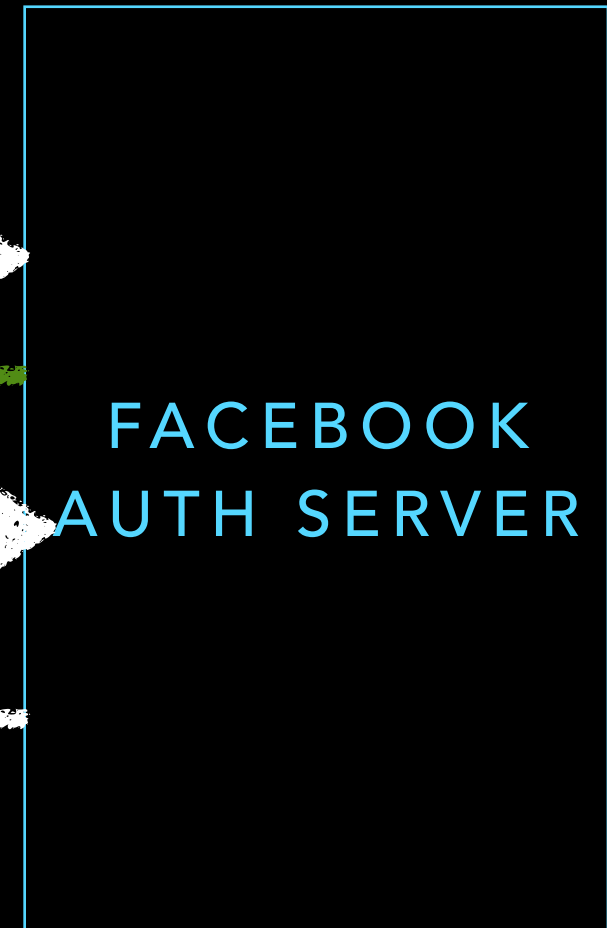


EXPO
APPLICATION

AUTHORIZATION REQUEST



ACCESS TOKEN
WITH LIMITED
PERMISSIONS



FACEBOOK
AUTH SERVER



FACEBOOK
RESOURCE
SERVER



LOGIN WITH FACEBOOK

RESOURCE SERVER
CHECKS TOKEN

AUTHORIZATION REQUEST

FACEBOOK
AUTH SERVER

EXPO
APPLICATION

ACCESS TOKEN

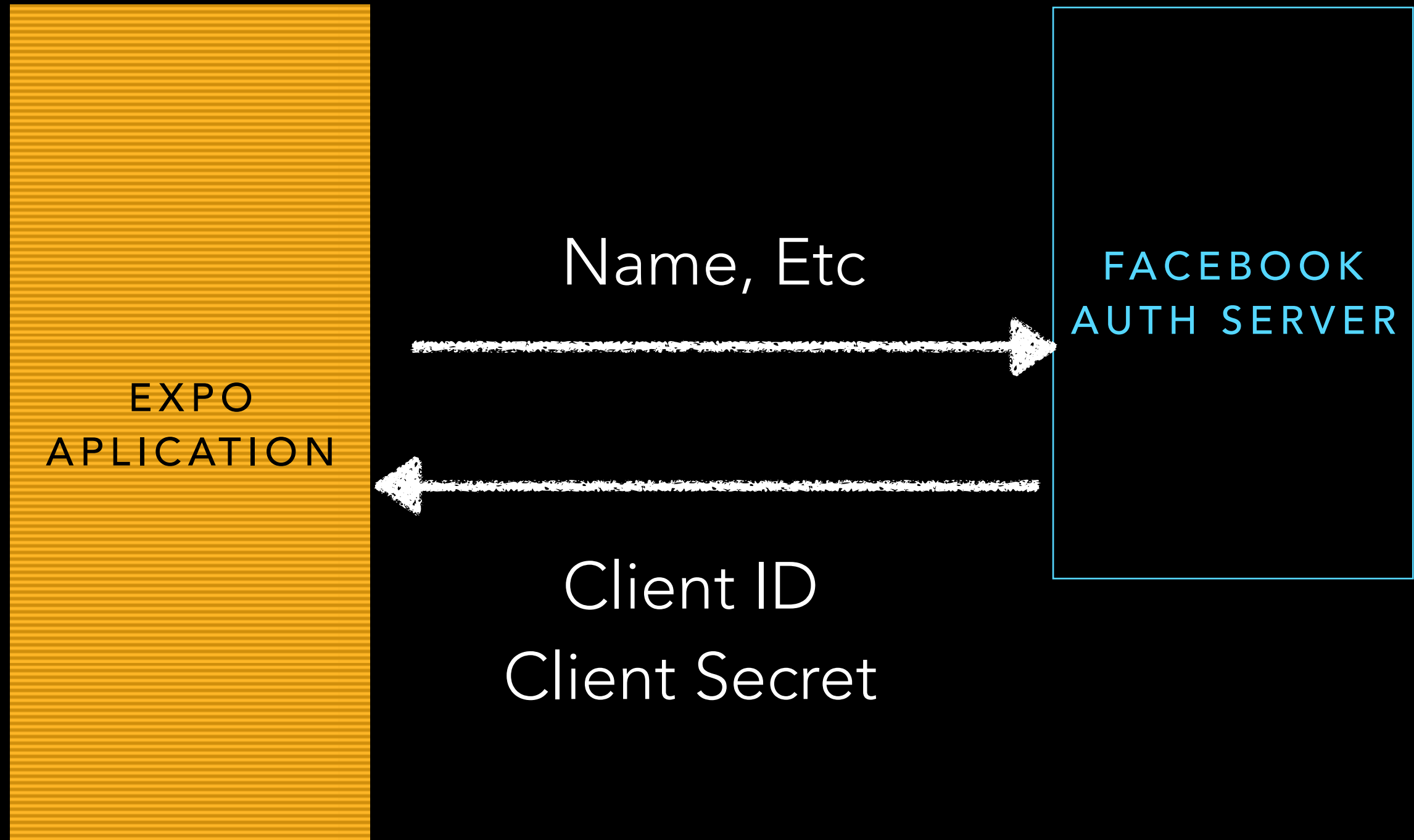
FACEBOOK
RESOURCE
SERVER

RESOURCE

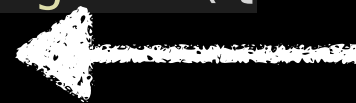


NEED TO REGISTER EXPO
APP WITH AUTH SERVER





```
const rootStack = createDrawerNavigator({  
  Login: LoginScreen,  
  Home: HomeScreen,  
  Player: PlayerScreen  
}, {  
  initialRouteName: 'Login'  
})
```



ADDED LOGIN SCREEN

ADD SET THE INITIAL ROUTE

```
import * as React from 'react';  
import { View } from 'react-native';
```

```
export default class LoginScreen extends React.Component {  
  render() {
```

```
    return(<View style={styles.loginButton}>  
      <Button  
        title="Login with Facebook"  
        onPress={()=>handleFacebookLogin(navigation)}  
      />  
    </View>)
```

```
  }  
}
```



SETUP A FUNCTION THAT
WILL HANDLE FACEBOOK NAVIGATION

```
async handleFacebookLogin(navigation){
  try {
    const { type, token } = await Facebook.logInWithReadPermissionsAsync(
      '1201211719949057', // Replace with your own app id in standalone app
      { permissions: ['public_profile'] }
    )

    switch (type) {
      case 'success': {
        // Get the user's name using Facebook's Graph API
        const response = await fetch(`https://graph.facebook.com/me?
access_token=${token}`);
        const profile = await response.json();
        navigation.navigate('MainScreen', {profile})

        break;
      }
    }
  }
}
```

LET'S LOOK AT A SNACK

- <https://snack.expo.io/@professorxii/facebookloginexample>

<https://docs.expo.io/versions/latest/sdk/facebook/>

- <https://developers.facebook.com/docs/apps/register>