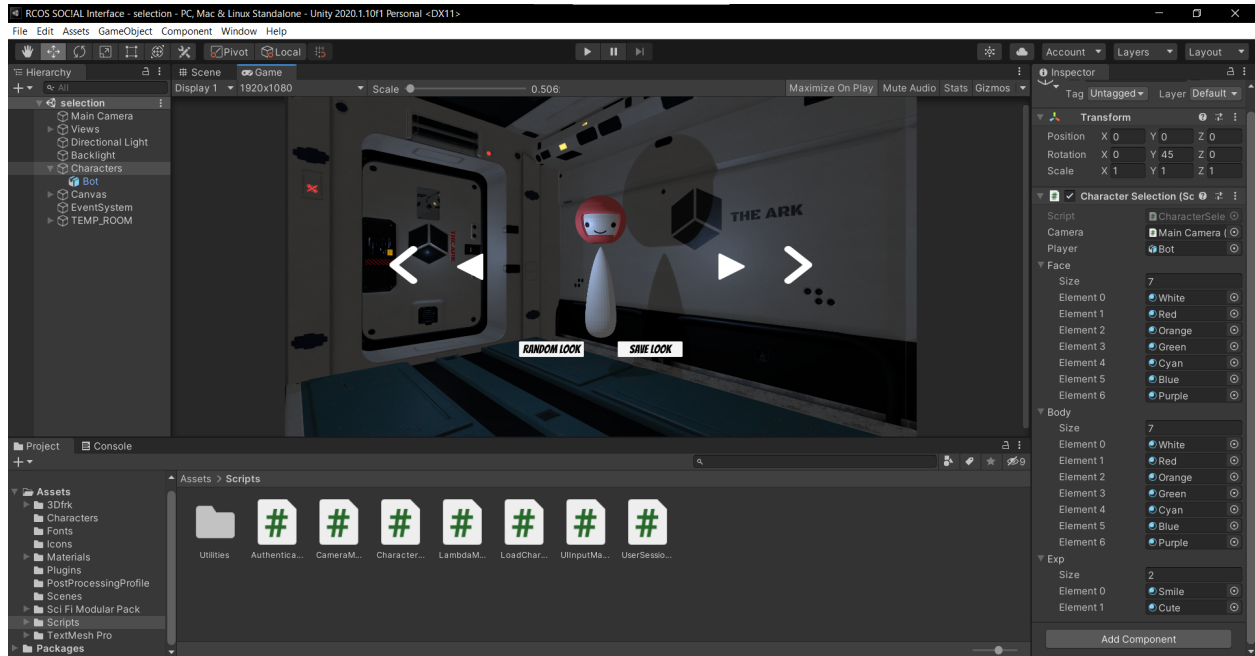
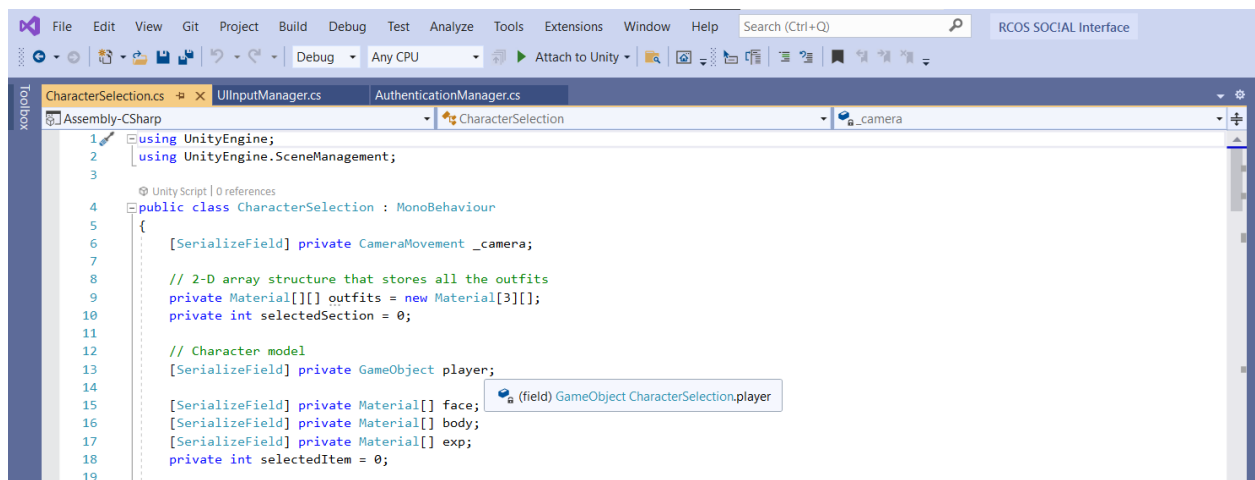


## User Selection Interface

- Adding new textures:
  - Click “characters” inside the hierarchy
  - Increase the size of the corresponding section
  - Add the materials



- Add new components:
  - Locate CharacterSelection.cs
  - Add [SerializeField] private TYPE[] COMPONENTNAME;
  - Do not forget initialize it in Start()
  - If the type is not simple textures (such as new props), the set-up process may look different compared to the existing codes (make it active/inactive might be one solution if they are GameObjects).



- Save Player Preferences
  - Inside CharacterSelection.cs, the preferences is saved as an array of integers each indicating the specific choice of each component.
  - Everytime the user changes the look, the saved data is also changed.
  - `PlayerData[selectedSection] = selectedItem;`
  - **Data syncing using AWS service is not completed due to limited time. Therefore, LoadCharacter.cs may only have limited functionality.**
    - **Because the original Cognito Sync Service used for data syncing inside AWS Cognito is removed from the newest package, one solution I can think of but have not implemented is to create a pool with custom attributes that can save user preferences.**

**Link to the unity package:**

[https://drive.google.com/file/d/1XPqtLEpJLS6r5fz85Wa0SrqtTLsAWv\\_Y/view?usp=sharing](https://drive.google.com/file/d/1XPqtLEpJLS6r5fz85Wa0SrqtTLsAWv_Y/view?usp=sharing)

## Login / Sign-up Interface

- Current functionality
  - Existed user can use the email address and the password to login
  - New users will have to create a new account using a preferred email address and username. A password (requires at least 8 characters that also include both upper and lower cases) need to be created in order to complete the sign-up process. The user will then receive a confirmation email to verify the email address. After verifying the email address, the user will be able to login successfully.
  - An error prompt will show up helping the user if there is an unsuccessful login / sign-up attempt. It includes a coroutine and lock that creates the fade out effect.
  - A local refresh token is also created and saved so that the user will not need to go through the login process again after a certain amount of time.
  - The user should be directed to the character selection interface after logging in.
- UIInputManager.cs
  - Controls the UI elements on the screen when the application starts.
- UserSessionCache.cs
  - A small class that saves the login data as JSON
- LambdaManager.cs
  - **MAY HAVE BUGS**
  - **This project does not require the use of lambda functions**
  - Directly calls the lambda function for a specific user pool
- AuthenticationManager
  - Uses AWS Cognito and communities with the Amazon service and allows the actual login / signup process.
  - The following need to be changed in case a new user / identity pool is wanted
    - Region: the AWS region of where your services live, can be found inside the identity pool and user pool id
    - IdentityPool: Cognito identity pool id, can be found under Cogito->Mange User Pools->YOUR POOL->General Setting
    - AppClientID: Cognito app client id, can be found under Cogito->Mange User Pools->YOUR POOL->General Setting->App Clients
    - UserPoolID: Cognito user pool id, can be found under Cogito->Mange User Pools->YOUR POOL->General Setting

```
Unity Script | 5 references
13 public class AuthenticationManager : MonoBehaviour
14 {
15     public static Amazon.RegionEndpoint Region = Amazon.RegionEndpoint.GetBySystemName("us-east-2");
16
17     const string IdentityPool = "us-east-2:166aed30-aef6-4107-b6f0-52045e5637d3";
18     const string AppClientID = "3ufqcro28rhtvj2mq8ufg0814";
19     const string userPoolId = "us-east-2_WgB7saxn6";
20 }
```