

In this task, your goal is to add a new required field to an object, and update all the places that object is constructed elsewhere in the program. Work on the task on your own, and let the experimenter know when you believe that you are finished.

Using your own laptop, and whatever programming tools you would normally use for a code-editing task in Java, follow these steps:

1. Open a terminal and run these commands:

```
git clone https://github.com/kelloggm/java-webauthn-server  
  
cd java-webauthn-server && git checkout L8
```

2. Make sure that the following command succeeds. If it does not, let the experimenter know.

```
./gradlew build
```

3. Add a new field to the class `com.yubico.webauthn.RegisteredCredential`. The new field should be a String called “issuer”, and should represent the issuer of the credential. The field should be non-null. You can copy the following code:

```
/** The authority that issued the credentials. */  
@NonNull  
private final String issuer;
```

4. Update any calls to the builder for `RegisteredCredential` in the rest of the project to provide an issuer. You can use the String “self” for any issuers that aren’t obvious from context; the actual value you set isn’t important.
5. When you are confident that you have made all required changes and all tests pass, signal the experimenter.