## CT561 Assignment 1

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To test the application, we entered a series of incorrect data to ensure that it throws appropriate exceptions.

## 1 InvalidCredentialsException

```
• $ ./start-client.sh

RMIRegistry port = 20459

Enter username: wrongName

Enter password: 123

ApplicationClient exception:

exceptions.InvalidCredentialsException: Invalid credentials
```

Figure 1: The entry of an incorrect username or password causes an InvalidCredentialsException.

```
$ ./start-client.sh
RMIRegistry port = 20459
Enter username: Ryan
Enter password: password
ID: 255314
Press Enter To Continue:
```

Figure 2: Entering the correct username and password throws no exception and allows the user to continue

## 2 InvalidSessionIDException

The method getApplicationForm throws an InvalidSessionIDException if the session ID is incorrect or if the session has been started more than 10 minutes before the questions are started.

```
$ ./start-client.sh
RMIRegistry port = 20459
Enter username: Ryan
Enter password: password
ID: 255314
Press Enter To Continue:
ApplicationClient exception:
exceptions.InvalidSessionIDException: Session timed out
```

Figure 3: Waiting 10 minutes or more between logging in and continuing with the questions caused an InvalidSessionIDException with the message "Session timed out"

The current design does not allow for the session ID to be entered manually - so the code was temporarily modified to test the case of an invalid session ID manually.

```
System.out.print(s:"Enter ID To Continue: ");
id = Long.valueOf(System.console().readLine());

// Get the application form using the session ID and fill it out
ApplicationForm form = handler.getApplicationForm(id);
```

```
$ ./start-client.sh

RMIRegistry port = 20459

Enter username: Ryan

Enter password: password

ID: 356164

Enter ID To Continue: 12345

ApplicationClient exception:

exceptions.InvalidSessionIDException: Invalid session ID
```

Figure 4: When an incorrect ID was entered, an InvalidSessionIDException was thrown.

To test the session mapping, we created multiple clients in seperate terminals, logged in and answered and submitted questions at alternating times. The hashMap allowed the IDs to be retrieved regardless of order so there were no errors.

Once the questions were completed - two files were created corresponding to both of the sessions.

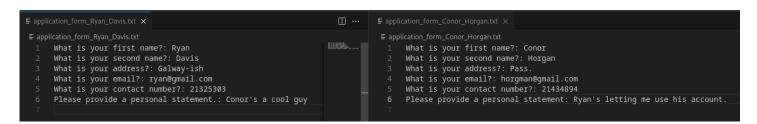


Figure 5: The filenames correspond with the name of the applicant and the contents are the questions and answers provided in the ApplicationForm.