

CT414 Distributed Systems and Co-Operative Computing


Assignment 1 – JAVA RMI (Survey System)

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Testing Description

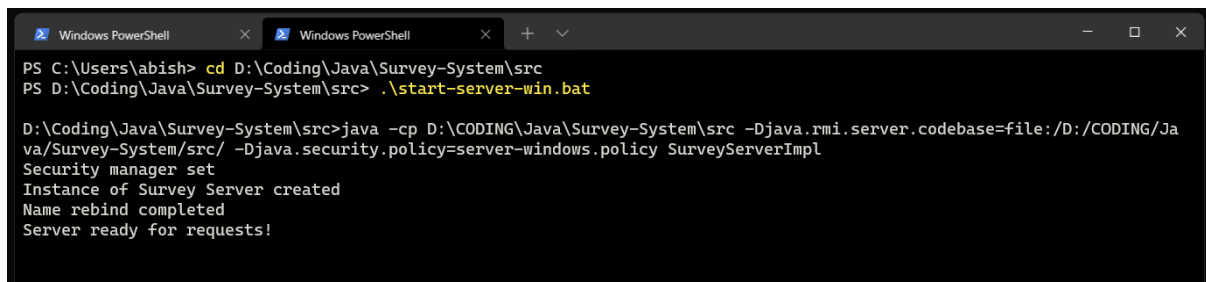
1. Start the Registry by running `.\start-registry-win.bat` in the terminal



```
Windows PowerShell
PS D:\CODING\Java\Survey-System\src> .\start-registry-win.bat

D:\CODING\Java\Survey-System\src>rmiregistry -J-Djava.rmi.server.codebase=file:/D:/CODING/Java/Survey-System/src/
```

2. Start the Server by running `.\start-server-win.bat`

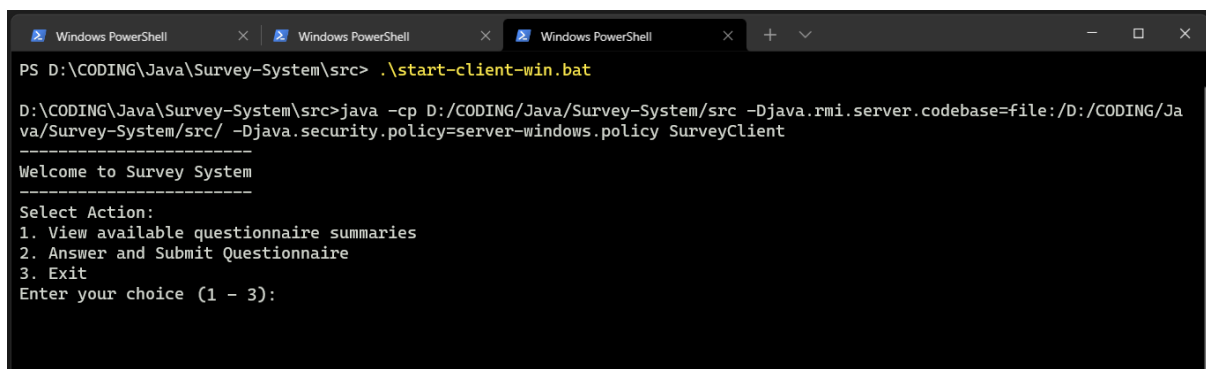


```
Windows PowerShell
PS C:\Users\abish> cd D:\Coding\Java\Survey-System\src
PS D:\Coding\Java\Survey-System\src> .\start-server-win.bat

D:\Coding\Java\Survey-System\src>java -cp D:\CODING\Java\Survey-System\src -Djava.rmi.server.codebase=file:/D:/CODING/Java/Survey-System/src/ -Djava.security.policy=server-windows.policy SurveyServerImpl
Security manager set
Instance of Survey Server created
Name rebind completed
Server ready for requests!
```

3. Using the client

- a. To run the client, enter `.\start-client-win.bat` in the terminal

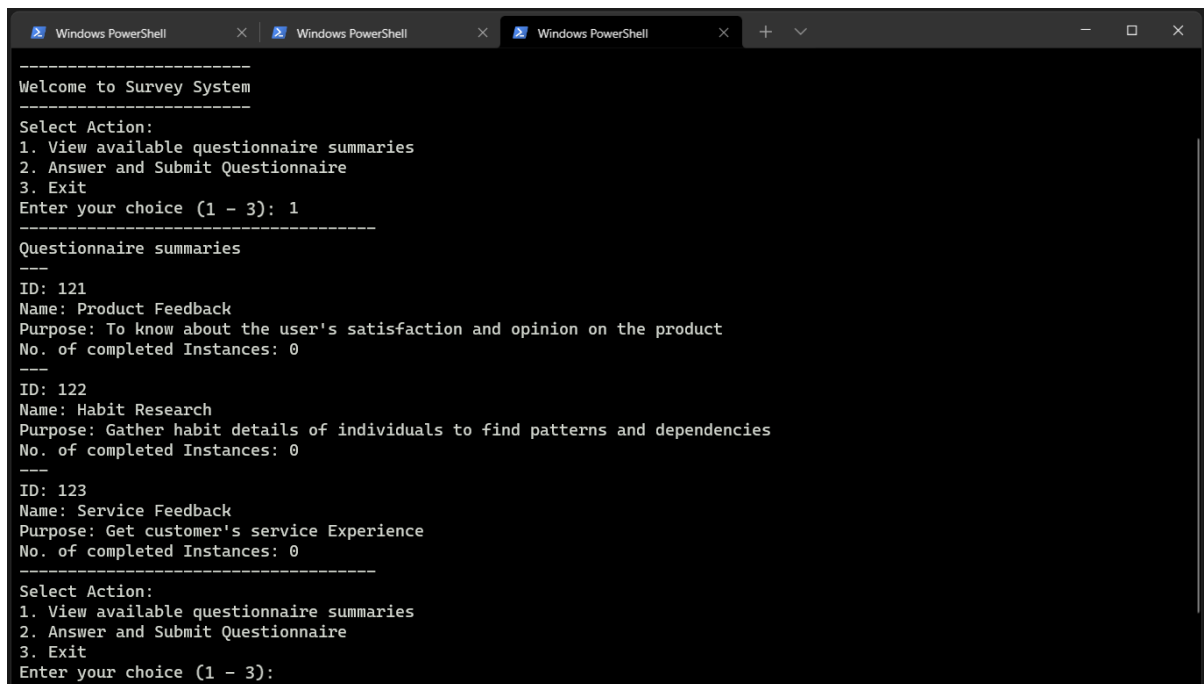


```
Windows PowerShell
PS D:\CODING\Java\Survey-System\src> .\start-client-win.bat

D:\CODING\Java\Survey-System\src>java -cp D:\CODING\Java\Survey-System\src -Djava.rmi.server.codebase=file:/D:/CODING/Java/Survey-System/src/ -Djava.security.policy=server-windows.policy SurveyClient
-----
Welcome to Survey System
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3):
```

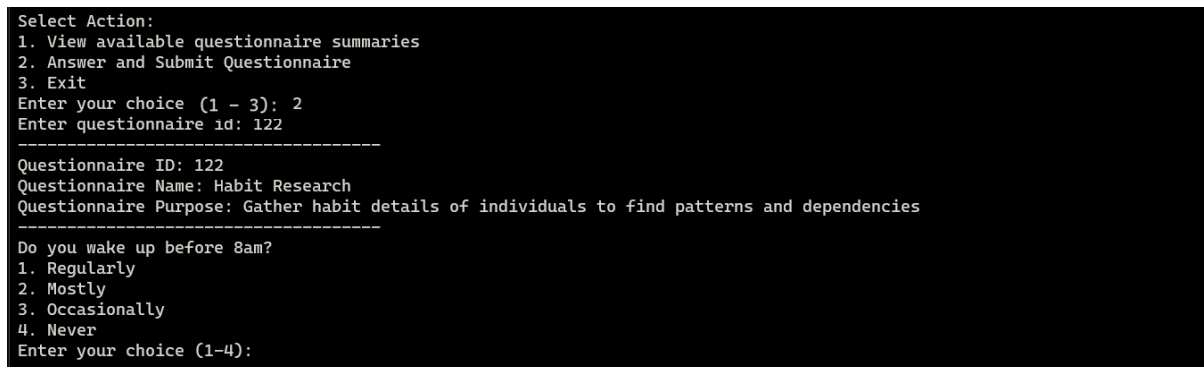
This provides 3 options to view summary, answers questionnaire and exit the app

b. To get the list of summaries select the 1st option



```
-----
Welcome to Survey System
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3): 1
-----
Questionnaire summaries
---
ID: 121
Name: Product Feedback
Purpose: To know about the user's satisfaction and opinion on the product
No. of completed Instances: 0
---
ID: 122
Name: Habit Research
Purpose: Gather habit details of individuals to find patterns and dependencies
No. of completed Instances: 0
---
ID: 123
Name: Service Feedback
Purpose: Get customer's service Experience
No. of completed Instances: 0
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3):
```

c. To answer and submit a questionnaire enter option 2 followed by the questionnaire id

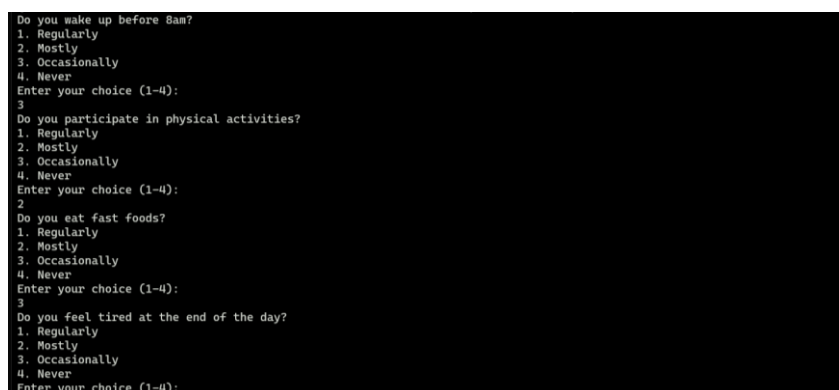


```
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3): 2
Enter questionnaire id: 122
-----
Questionnaire ID: 122
Questionnaire Name: Habit Research
Questionnaire Purpose: Gather habit details of individuals to find patterns and dependencies
-----
Do you wake up before 8am?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
```

This shows the details of the questionnaire and goes through the questions which can be answered one by one

d. Answering questions

The choices can be selected by entering the choice number



```
Do you wake up before 8am?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
3
Do you participate in physical activities?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
2
Do you eat fast foods?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
3
Do you feel tired at the end of the day?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
```

Invalid choice input handling

```
Do you feel tired at the end of the day?
1. Regularly
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
7
Invalid input, please enter value between 1 and 4:
```

e. Submitting the question

After all the questions have been completed, submit question is asked by the client app

If 'y' is entered by the user then the questionnaire is submitted to the server

```
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
3
How healthy do you consider yourself?
1. Fit
2. Neutral
3. Overweight
4. Obese
Enter your choice (1-4):
4
Submit (Y/N) ?
y
Questionnaire successfully submitted to the server!
Returning to main menu...
```

If 'n' is chosen, the app returns to main menu without submitting the questionnaire

```
2. Mostly
3. Occasionally
4. Never
Enter your choice (1-4):
2
How healthy do you consider yourself?
1. Fit
2. Neutral
3. Overweight
4. Obese
Enter your choice (1-4):
1
Submit (Y/N) ?
n
Questionnaire not submitted!
Returning to main menu...

-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3):
```

f. Updating the number of completed Instances

When the view summaries option is selected after submitting the questionnaire, we can see the updated number of completed instances fields

```
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3): 1
-----
Questionnaire summaries
-----
ID: 121
Name: Product Feedback
Purpose: To know about the user's satisfaction and opinion on the product
No. of completed Instances: 0
-----
ID: 122
Name: Habit Research
Purpose: Gather habit details of individuals to find patterns and dependencies
No. of completed Instances: 1
-----
ID: 123
Name: Service Feedback
Purpose: Get customer's service Experience
No. of completed Instances: 0
-----
Select Action:
```

Only the Habit research questionnaire has been updated as we have submitted 1 instance in the previous test

Submitting multiple questionnaires to test the correct updating of No. of completed Instances field

```
-----
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3): 1
-----
Questionnaire summaries
-----
ID: 121
Name: Product Feedback
Purpose: To know about the user's satisfaction and opinion on the product
No. of completed Instances: 2
-----
ID: 122
Name: Habit Research
Purpose: Gather habit details of individuals to find patterns and dependencies
No. of completed Instances: 3
-----
ID: 123
Name: Service Feedback
Purpose: Get customer's service Experience
No. of completed Instances: 1
-----
```

g. Exiting the app

```
Select Action:
1. View available questionnaire summaries
2. Answer and Submit Questionnaire
3. Exit
Enter your choice (1 - 3): 3
Exiting...
PS D:\CODING\Java\Survey-System\src>
```

h. Invalid action choice handling

```
-----  
Select Action:  
1. View available questionnaire summaries  
2. Answer and Submit Questionnaire  
3. Exit  
Enter your choice (1 - 3): 5  
  
Invalid choice! please select between 1 - 3  
  
Select Action:  
1. View available questionnaire summaries  
2. Answer and Submit Questionnaire  
3. Exit  
Enter your choice (1 - 3):
```