SER 321 B Session

SI Session

Monday March 25th 2024

7:00 pm - 8:00 pm MST

Agenda

JSON

Socket Communication

Properties

Steps

Diagram

SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
 - tutoring.asu.edu
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features



Zoom Chat

- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged

```
"type": "echo", -- echoes the initial response

"ok": <bool>, -- true or false depending on request

"echo": <String>, -- echoed String if ok true

"message": <String>, -- error message if ok false

Echo General Response
```

```
"type": "echo", -- echoes the initial response

"bype": "echo", -- type of request
"data": <String> -- String to be echoed

Echo Request

"type": "echo", -- echoes the initial response
"ok": <bool>, -- true or false depending on request
"echo": <String>, -- echoed String if ok true
"message": <String>, -- error message if ok false

Echo General Response
```

```
Think of yourself as the server!
```

String reqType = ""; //to hold request type
String content = ""; // to hold data from client
JSONObject request = new JSONObject(str);

```
You can assume STR is the data sent from the client
```

```
{
    "type" : "echo", -- type of request
    "data" : <String> -- String to be echoed
}

Echo Request
```

```
"type": "echo", -- echoes the initial response

"ok": <bool>, -- true or false depending on request

"echo": <String>, -- echoed String if ok true

"message": <String>, -- error message if ok false

Echo General Response
```

Think of yourself as the server!

You can assume STR is the data sent from the client

```
String reqType = ""; //to hold request type
String content = ""; // to hold data from client
JSONObject request = new JSONObject(str);
if (!request.has("type")) {
    //error - no type header
    //send error response
}
```

```
"type": "echo", -- echoes the initial response

"type": "echo", -- true or false depending on request

"data": <String> -- String to be echoed

Echo Request

Type": "echo", -- echoes the initial response

"ok": <bool>, -- true or false depending on request

"echo": <String>, -- echoed String if ok true

"message": <String>, -- error message if ok false

Echo General Response
```

```
Think of yourself as the server!
```

You can assume STR is the data sent from the client

```
String content = ""; // to hold data from client
JSONObject request = new JSONObject(str);
if (!request.has("type")) {
     //error - no type header
     //send error response
}
reqType = request.getString("type");
if (reqType.equals("echo")) {
     //fetch message
```

String reqType = ""; //to hold request type

```
"type": "echo", -- echoes the initial response
   "ok": <bool>, -- true or false depending on request
   "echo": <String>, -- echoed String if ok true
   "message": <String>, -- error message if ok false
}
Echo General Response
```

Think of yourself as the server!

```
{
        "type" : "echo",
        "ok" : true,
        "echo" : <String>
}
```

```
Target Response
```

```
String content = request.getString("data");
JSONObject res = new JSONObject();
```

Check out the recording for the solution!

Then what do you do?

SER 321 Response Codes

Think Fast - ID these Codes

1XX 2XX 3XX 4XX 5XX



Think Fast - Client or Server?

```
String host = args[0];
Socket server = new Socket(host, port);
```



Think Fast - Client or Server?

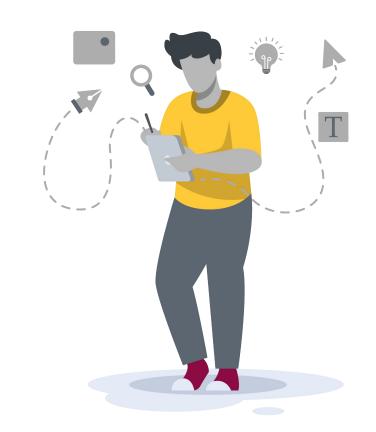
```
Socket <u>clientSock</u>;
ServerSocket <u>sock</u> = new ServerSocket(<u>port</u>);
```

SER 321 Scratch Space

Questions?

Survey:

http://bit.ly/ASN2324



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Upcoming Events

SI Sessions:

- Thursday, March 28th at 7:00 pm MST
- Sunday, March 31st at 7:00 pm MST
- Monday, April 1st at 7:00 pm MST

Review Sessions:

TBD

More Questions? Check out our other resources!

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Access the drop-in queue

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1_

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- Any -







Don't forget to check out the Online Study Hub for additional resources!

Expanded Writing Support Available

Including Grammarly for Education, at no cost!





tutoring.asu.edu/expanded-writing-support

^{*}Available slots for this pilot are limited

Additional Resources

- Course Repo
- Gradle Documentation
- GitHub SSH Help
- Linux Man Pages
- OSI Interactive
- MDN HTTP Docs
 - Requests
 - Responses
- JSON Guide
- org.json Docs
- javax.swing package API
- Swing Tutorials