SER 321 B Session

SI Session

Thursday, October 24th 2024

7:00 pm - 8:00 pm MST

Agenda

Gradle Review

OSI Model

HTTP Codes

JSON

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

CORRECTION

SER 321

Gradle Review Which if statement will execute with gradle SocketClient?

```
} else {
    args("localhost", "Hello!", 99)
}
```

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {
A.
    args(project.getProperty('host'), project.getProperty('message'), project.getProperty('number'));
 else if (project.hasProperty("host") && project.hasProperty("message")) {
В.
    args(project.getProperty('host'), project.getProperty('message'));
                                                                                         NONE!
 else if (pr
                                             ect.hasProperty("number")) {
C.
                Let's run as is...
    args(pro
                                             ed: https://gph.is/2y76sj4", project.getProperty('number'));
  else if (project.hasProperty("host")) {
D.
                                                                   How could we change that?
   args(project.getProperty('host'));
```

CORRECTION

SER 321 Gradle Review

Check out the recording for the discussion!

Step 1:

```
PS C:\ASU\SER321\examples_repo\ser321examples\Sockets\JavaSimpleSock2> gradle
SocketServer

> Task :SocketServer

Server ready for 3 connections
Server waiting for a connection

<=======---> 75% EXECUTING [16s]

> :SocketServer
```

Step 2:

PS C:\ASU\SER321\examples_repo\ser321examples\Sockets\JavaSimpleSock2> gradle SocketClient

Check out the recording for the discussion!

PS C:\ASU\SER321\examples_repo\ser321examples\Sockets\JavaSimpleSock2> gradle SocketClient

> Task :SocketServer

Server ready for 3 connections

Server waiting for a connection

Received the String HI

Received the Integer 100

Server waiting for a connection

> :SocketServer

emon could not be reused, use --status for



d in this build, making it incompatible wit

show the individual deprecation warnings a

ittps://docs.gradle.org/8.10/userguide/comma

own scripts or plugins.

nd_line_interface.html#sec:command_line_warnings in the Gradle documentation.

Step 2:

PS C:\A! SocketC1BUILD SUCCESSFUL in 12s

2 actionable tasks: 1 executed, 1 up-to-date

Have we set a default host here?

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {
    arqs(project.getProperty('host'), project.getProperty('message'), project.getProperty('number'));
 else if (project.hasProperty("host") && project.hasProperty("message")) {
    arqs(project.qetProperty('host'), project.qetProperty('message'));
 else if (project.hasProperty("host") && project.hasProperty("number")) {
    args(project.getProperty('host'),
          "Set by Gradle, since nothing provided: https://gph.is/2y76sj4", project.getProperty('number'));
  else if (project.hasProperty("host")) {
   args(project.getProperty('host'));
```

Have we set any defaults here?

Let's modify this code to have both defaults and command line properties!

```
task API(type: JavaExec) {
  classpath = sourceSets.main.runtimeClasspath
  main = 'API'
  // default args
  args 'kgary' // port
}
```

First let's make the *if* statement:

Let's modify this code to have both defaults and command line properties!

```
task API(type: JavaExec) {
 classpath = sourceSets.main.runtimeClasspath
 main = 'API'
  //OPTION 1
  // default args
 args 'kgary' // port
  //OPTION 2
```

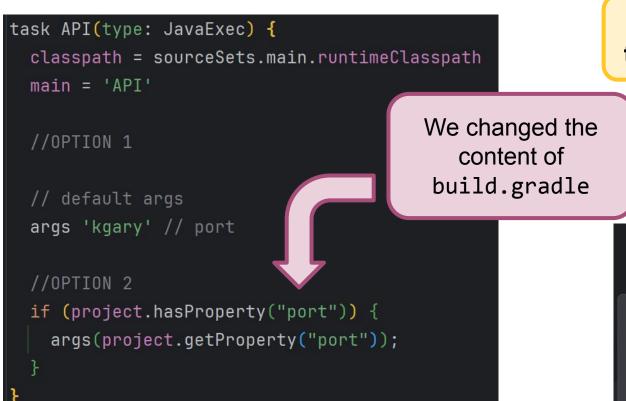
First let's make the *if* statement:

Okay, now where do we put it?

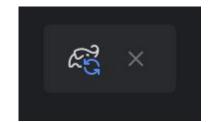
Check out the recording for the discussion!

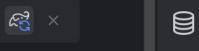
SER 321 Gradle Review

IMPORTANT NOTE!



So you need to refresh the project in your IDE!





Load Gradle Changes Ctrl+Shift+O Gradle project structure has been changed. Load changes into IntelliJ IDEA to make it work correctly.

Check out the recording for the discussion!

SER 321 OSI Model

Unit

Layer

What we are *really* talking about

Data	Application	
Data	Presentation	
Data	Session	
Segment	Transport	
Packet	Network	
Frame	Data Link	
Bits	Physical	

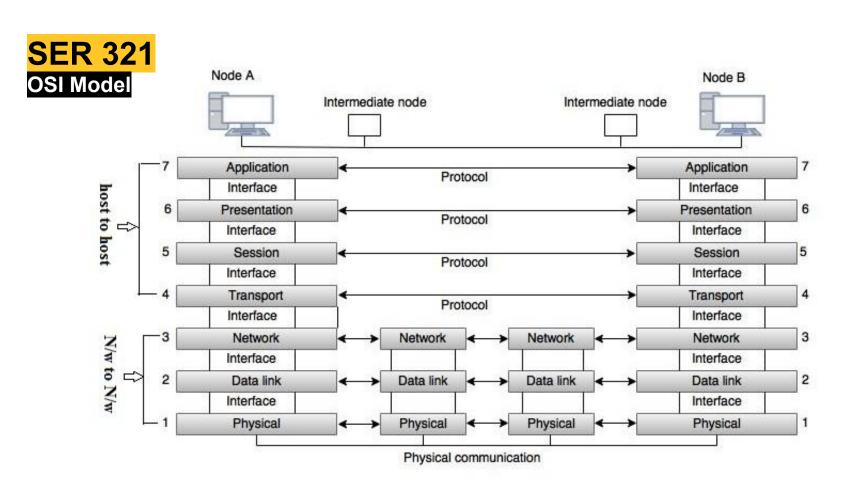


Fig: OSI Model

Check out the recording for the discussion!

SER	321
OSI Mo	del

Unit

Layer

What we are *really* talking about

Data	Application	
Data	Presentation	
Data	Session	
Segment	Transport	TCP/UDP
Packet	Network	IP address, routing and delivery
Frame	Data Link	LLC, MAC, data transmission in LAN
Bits	Physical	Signal, Binary transmission



Stateful



OR

Stateless

Synchronous

OR

Asynchronous



Query

https://www.google.com/search?q=asu



Protocol

https://www.google.com/search?q=asu



Path

https://www.google.com/search?q=asu



Host

https://www.google.com/search?q=asu

SER 321 Scratch Space

Upcoming Events

SI Sessions:

- Sunday, October 27th 2024 at 7:00 pm MST
- Tuesday, October 29th 2024 at 10:00 am MST
- Thursday, October 31st 2024 at 7:00 pm MST

Review Sessions:

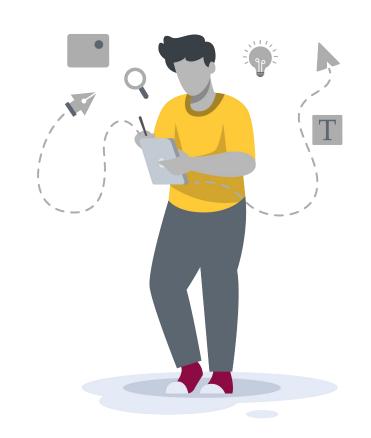
TBD

Questions?

Survey:

https://asuasn.info/ASNSurvey





22

More Questions? Check out our other resources!

tutoring.asu.edu



Academic Support Network

Services V Faculty and Staff Resources About Us V

University College

Academic Support

Academic Support Network (ASN) provides a variety of free services in-person and online to help currently enrolled ASU students succeed academically

Services



Subject Area Tutoring

Need in-person or online help with math, science, business, or engineering courses? Just hop into our Zoom room or drop into a center for small group tutoring. We'll take it from there.

Need help using Zoom?

View the tutoring schedule

View digital resources

Go to Zoom



Writing Tutoring

Need help with undergraduate or graduate writing assignments? Schedule an in-person or online appointment, access your appointment link, or wait in our drop-in

Access your appointment link

Access the drop-in queue

Schedule Appointment



Online Study Hub

Join our online peer communities to connect with your fellow Sun Devils. Engage with our tools to search our bank of resources. videos, and previously asked questions. Or, ask our Tutorbot questions.

Now supporting courses in Math. Science. Business, Engineering, and Writing.

Online Study Hub

Go to Zoom

Need help using Zoom?

View the tutoring schedule

View digital resources

- 1. Click on 'Go to Zoom' to log onto our Online Tutoring Center.
- 2. Click on 'View the tutoring schedule' to see when tutors are available for specific courses.

More Questions? Check out our other resources!

tutoring.asu.edu/online-study-hub

Select a subject
- 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