

# SER 321 C Session

**SI Session**

**Thursday, May 30th 2024**

*6:00 pm - 7:00 pm MST*

# Agenda



Gradle Review

HTTP

Requests

Response 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](https://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

# SER 321

## Assignment 2

Helper Document is *super* helpful!

👏 Thank you UGTA Dan Smallwood! 👏

**SER 321****Gradle Review**

Which statement will execute with...

gradle SocketClient -Phost=localhost -Pmessage=secret

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

**SER 321****Gradle Review**

Which statement will execute with...

gradle SocketClient -Phost=localhost -Pmessage=secret

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

**SER 321****Gradle Review**

Which statement will execute with...

gradle SocketClient -Phost=localhost -Pmessage=secret -Pnumber=2

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



**SER 321****Gradle Review**

Which statement will execute with...

gradle SocketClient -Phost=localhost -Pmessage=secret -Pnumber=2

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

**SER 321****Gradle Review**

Have we set any defaults here?

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {
    args(project.getProperty('host'),
        project.getProperty('message'),
        project.getProperty('number'));
} else if (project.hasProperty("host") && project.hasProperty("message")) {
    args(project.getProperty('host'),
        project.getProperty('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'));
}
```

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## Gradle Review

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?

We will focus on ***FOUR*** request types

1.

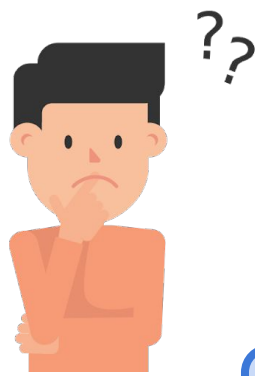
2.

3.

4.

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**HTTP(S)**



Stateful

OR

Stateless

Synchronous

OR

Asynchronous

What's the difference?

1. GET

2. POST

3. PUT

4. DELETE

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## HTTP Responses

Status Codes →

1XX

2XX

3XX

4XX

5XX

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## HTTP Responses

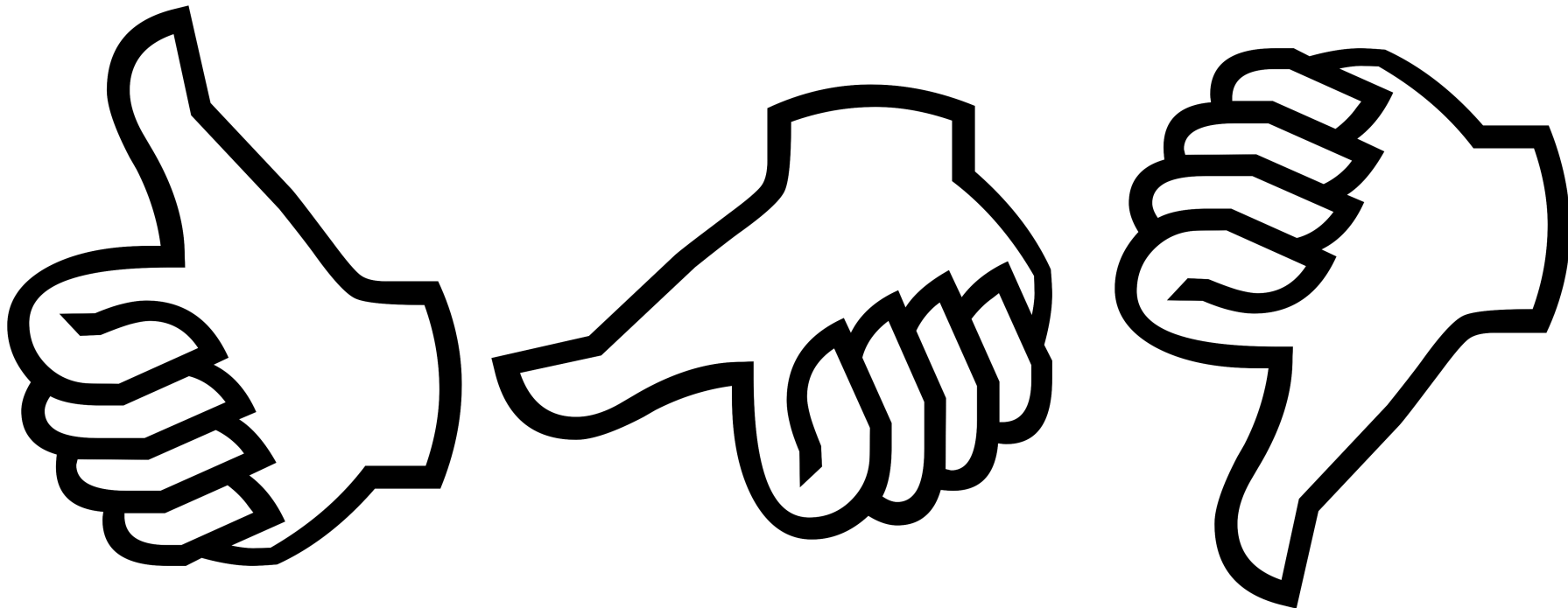
1XX	Information	Rare			
2XX	Success	200	201	204	
3XX	Redirect	301			
4XX	User Error	400	403	404	405
5XX	Server Error	501	503		



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**JSON**

How comfortable are we with JSON?



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**JSON**

**Object**

**Array**

**Member**

{ }

[ ]

“name” : value

**SER 321****JSON**

What do we see?

```
{  
  "name" : "katie",  
  "role" : "student",  
  "course" : "ser321"  
}
```

```
{  
  "name" : "katie",  
  "pets" : {  
    "dog" : "smokey"  
  }  
}
```

```
[  
  {"name" : "katie"}  
]
```

```
{  
  "submissions" : [  
    {"name" : "katie"},  
    {"name" : "zac"}  
  ]  
}
```

**SER 321****JSON**

Do you see any errors?

```
{  
  "name" : "katie",  
  "role" : "student",  
  "course" : "ser321"  
}
```

```
{  
  "name" : "katie",  
  "pets" : {  
    "dog" : "smokey",  
    "dog" : "samie"  
  }  
}
```

```
[{  
  "name" : "katie",  
  "name" : "zac"  
}]
```

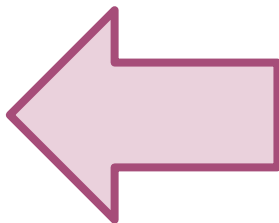
```
{  
  "submissions" : [  
    {"name" : "katie"},  
    {"name" : "zac"}  
  ]  
}
```

**SER 321**

**JSON**

How could we correct them?

```
[  
  {"name": "katie"},  
  {"name": "zac"}  
]
```

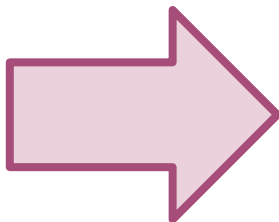


```
[{  
  "name": "katie",  
  "name": "zac"  
}]
```

**WRONG**

```
{  
  "name": "katie",  
  "pets": {  
    "dog": "smokey",  
    "dog": "samie"  
  }  
}
```

**WRONG**



```
{  
  "name": "katie",  
  "pets": {  
    {"dog": "smokey"},  
    {"dog": "samie"}  
  }  
}
```

**SER 321**

**JSON**

How many Objects?

How many Arrays?

How many Members?

```
{  
  "name": "lab3vue_act3_kgrinne3",  
  "version": "0.0.0",  
  "private": true,  
  "scripts": {  
    "dev": "vite",  
    "build": "vite build",  
    "preview": "vite preview"  
  },  
  "dependencies": {  
    "vue": "^3.3.4"  
  },  
  "devDependencies": {  
    "@vitejs/plugin-vue": "^4.3.1",  
    "vite": "^4.4.9"  
  }  
}
```

# SER 321

## JSON

JSONObject json =

What if I want to see if  
name exists first?

How about the dev  
value?

```
{
  "name": "lab3vue_act3_kgrinne3",
  "version": "0.0.0",
  "private": true,
  "scripts": {
    "dev": "vite",
    "build": "vite build",
    "preview": "vite preview"
  },
  "dependencies": {
    "vue": "^3.3.4"
  },
  "devDependencies": {
    "@vitejs/plugin-vue": "^4.3.1",
    "vite": "^4.4.9"
  }
}
```

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**JSON**

Let's take a closer look at HTTP-JSON



# SER 321

Scratch Space

# Questions?



## Survey:

<http://bit.ly/ASN2324>



## Upcoming Events

### SI Sessions:

- Sunday, June 2nd at 6:00 pm MST
- Monday, June 3rd at 6:00 pm MST
- Thursday, June 6th at 6:00 pm MST

### Review Sessions:

- Review Session - **Wednesday**, July 3rd at 6:00 pm MST (2 hr Session)
- Q&A Session - Sunday, July 7th at 6:00 pm MST (Final Session)

# More Questions?

Check out our other resources!

tutoring.asu.edu



## 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 queue.

[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

1-

Go to Zoom

2-

[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](https://tutoring.asu.edu/online-study-hub)

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[University College](#)

## Online Study Hub

Online peer communities for students and tutors, YouTube channels, and Tutorbots.



### What are online peer communities?

Individual courses have an online peer community that allows you to connect with your peers to post and answer questions and to develop study groups.



### How can tutoring center videos help?

Videos can help supplement the learning you're doing in and outside of class and include step-by-step methods for how to understand concepts.



### How does the Tutorbot work?

You can ask the Tutorbot questions about course concepts and the Tutorbot will recommend additional resources and examples to help address your questions.

Select a subject

- Any -

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Select a subject

- Any -

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**Business**

### ACC 231

Uses of Accounting Info I

 [Peer Community](#)

### ACC 241

Uses of Accounting Info II

 [Peer Community](#)

### CIS 105

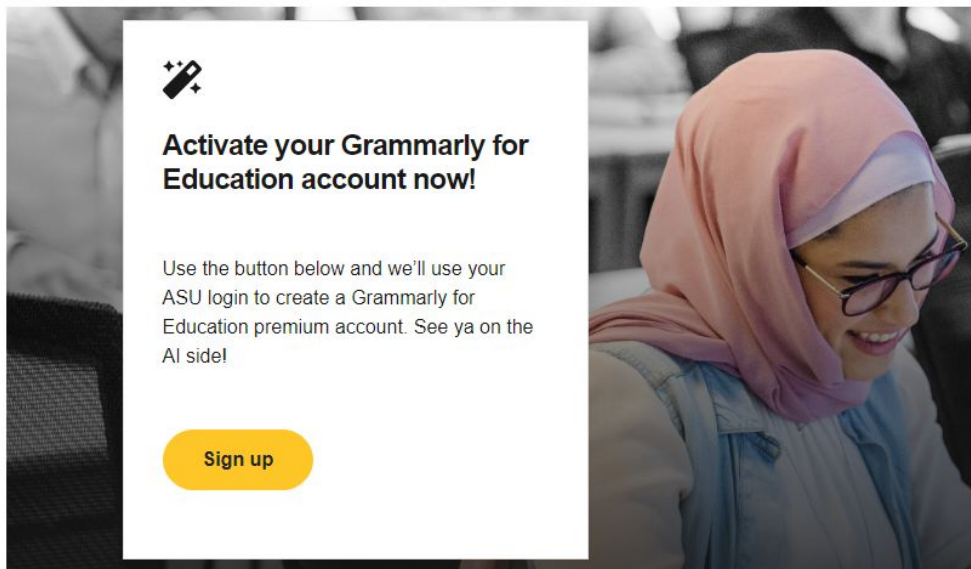
Computer Applications and Information Technology

 [Peer Community](#)

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](https://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](#)