

SER 321 B Session

SI Session

Monday, November 20th 2023

4:00 - 5:00 pm MST

Agenda



Middleware

Assignment 6

Protobufs

Structure

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:

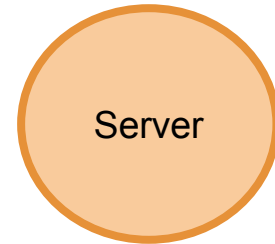
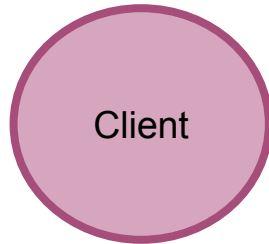
Zoom Features



Zoom Chat

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

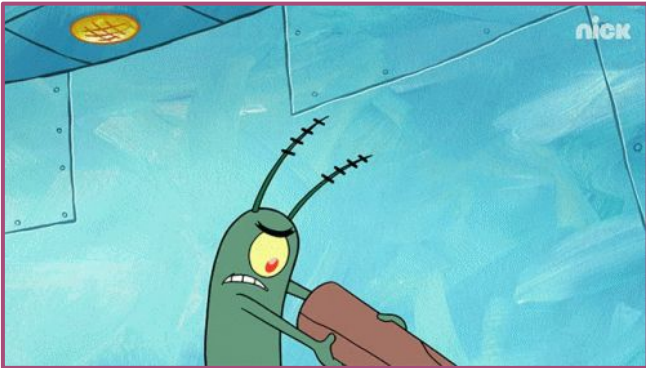
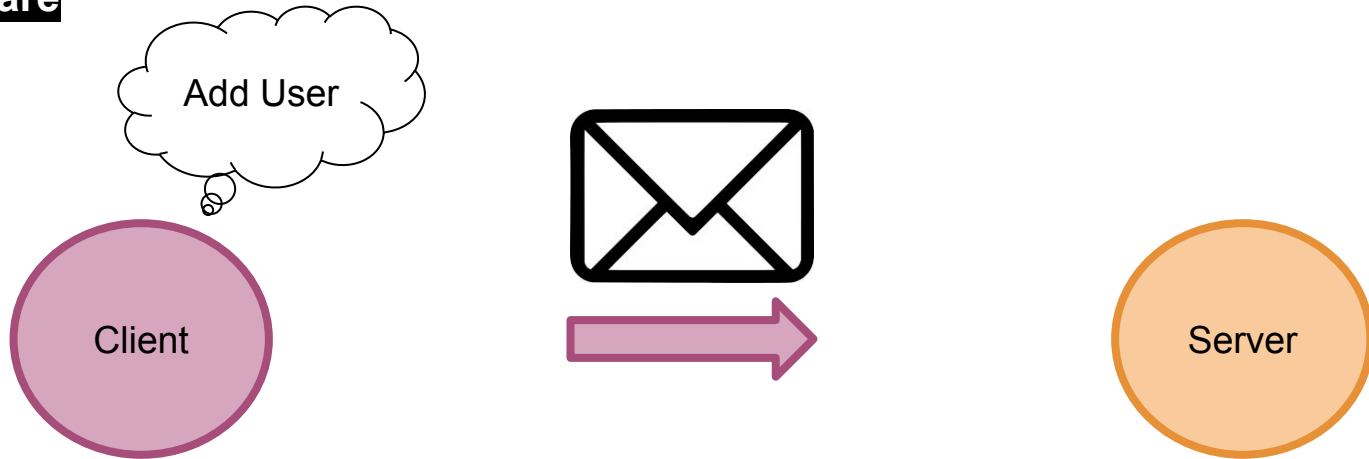
Communication thus far



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Middleware

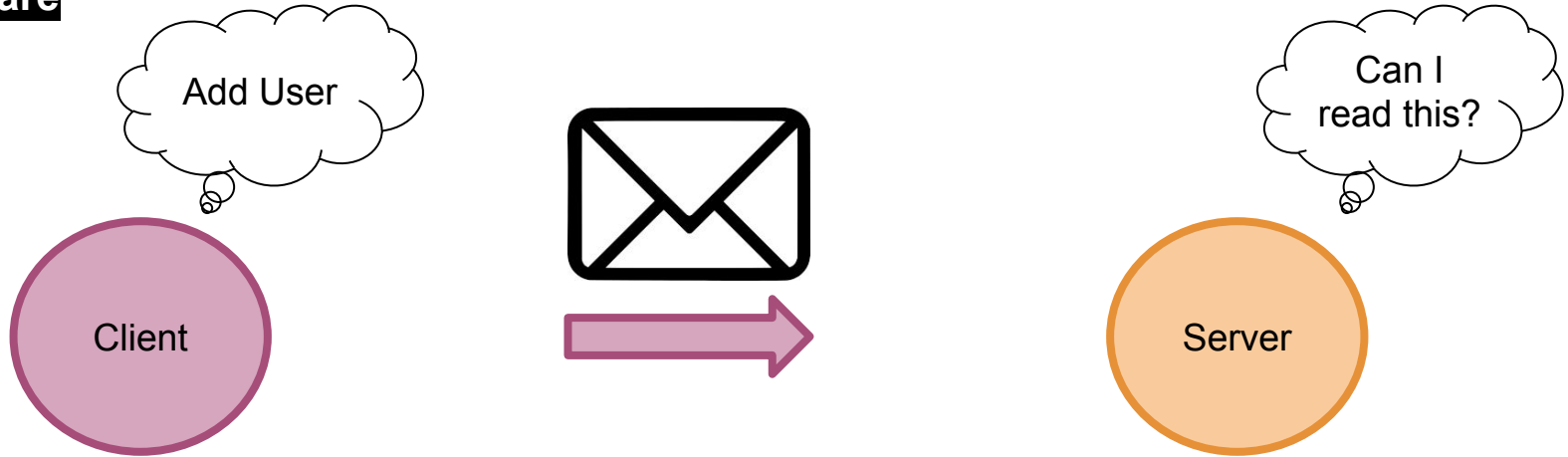
Communication thus far



SER 321

Middleware

Communication thus far



```
{  
  "name" : "katie",  
  "pwd" : "katie"  
}
```

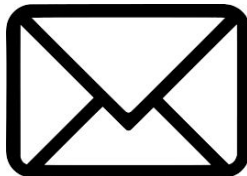
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Communication thus far

Add User

Client



Will I
accept
this?

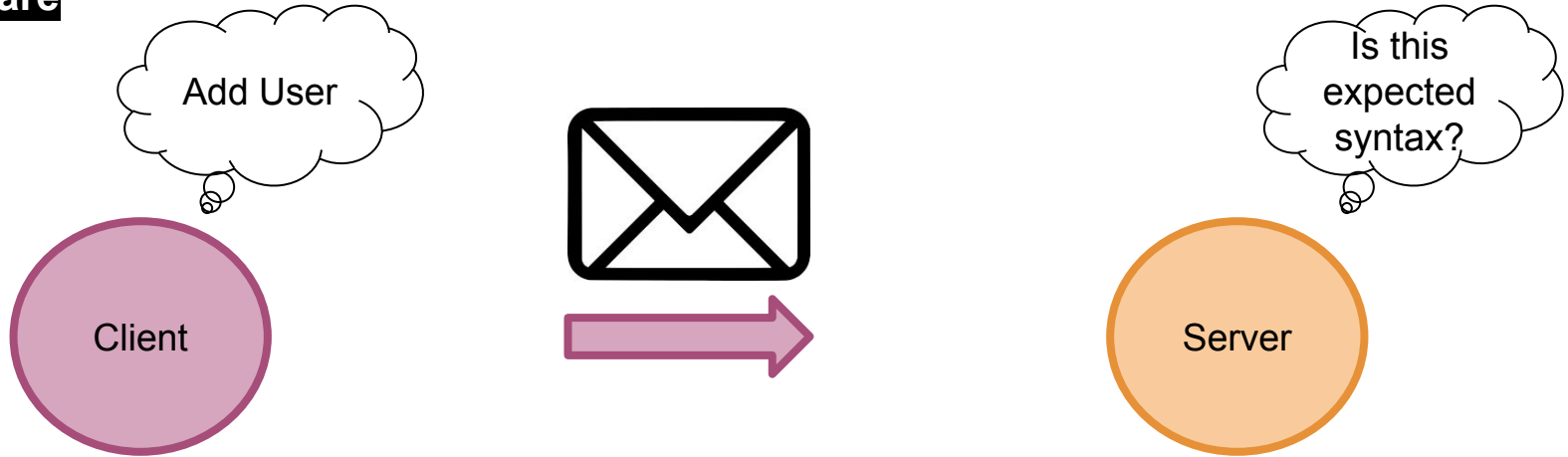
Server

```
{  
  "name" : "katie",  
  "pwd" : "katie"  
}
```


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Middleware

Communication thus far

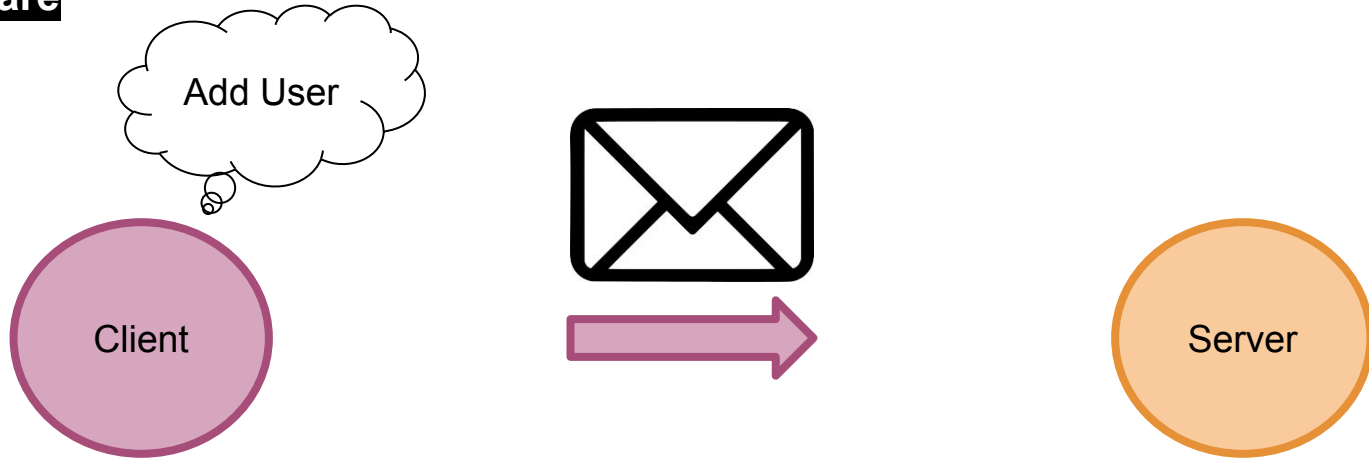


```
{  
  "name" : "katie",  
  "pwd" : "katie"  
}
```

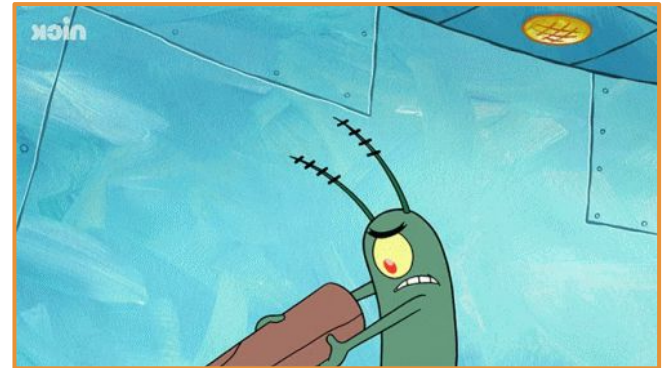
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Communication thus far



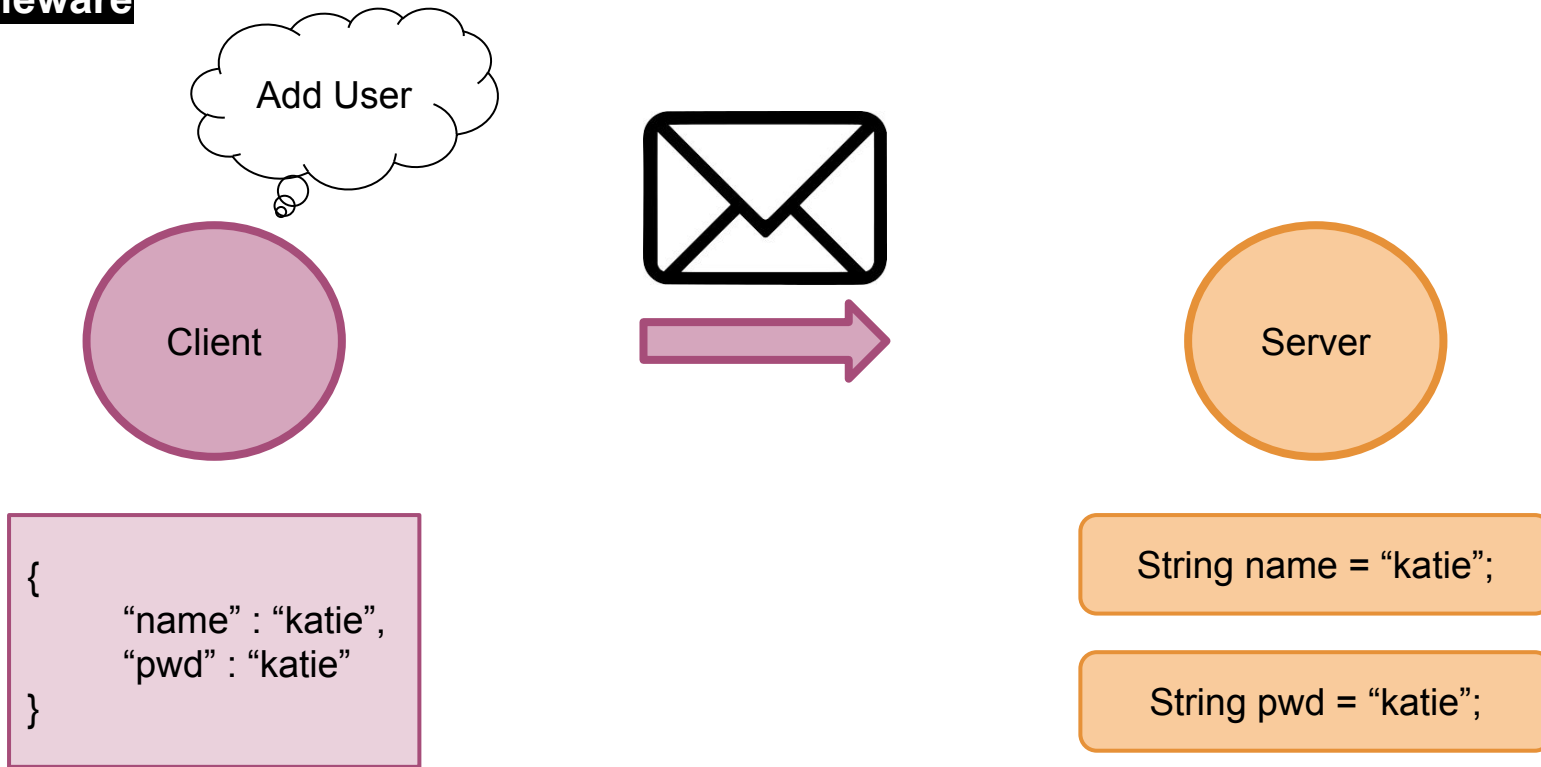
```
{  
  "name" : "katie",  
  "pwd" : "katie"  
}
```



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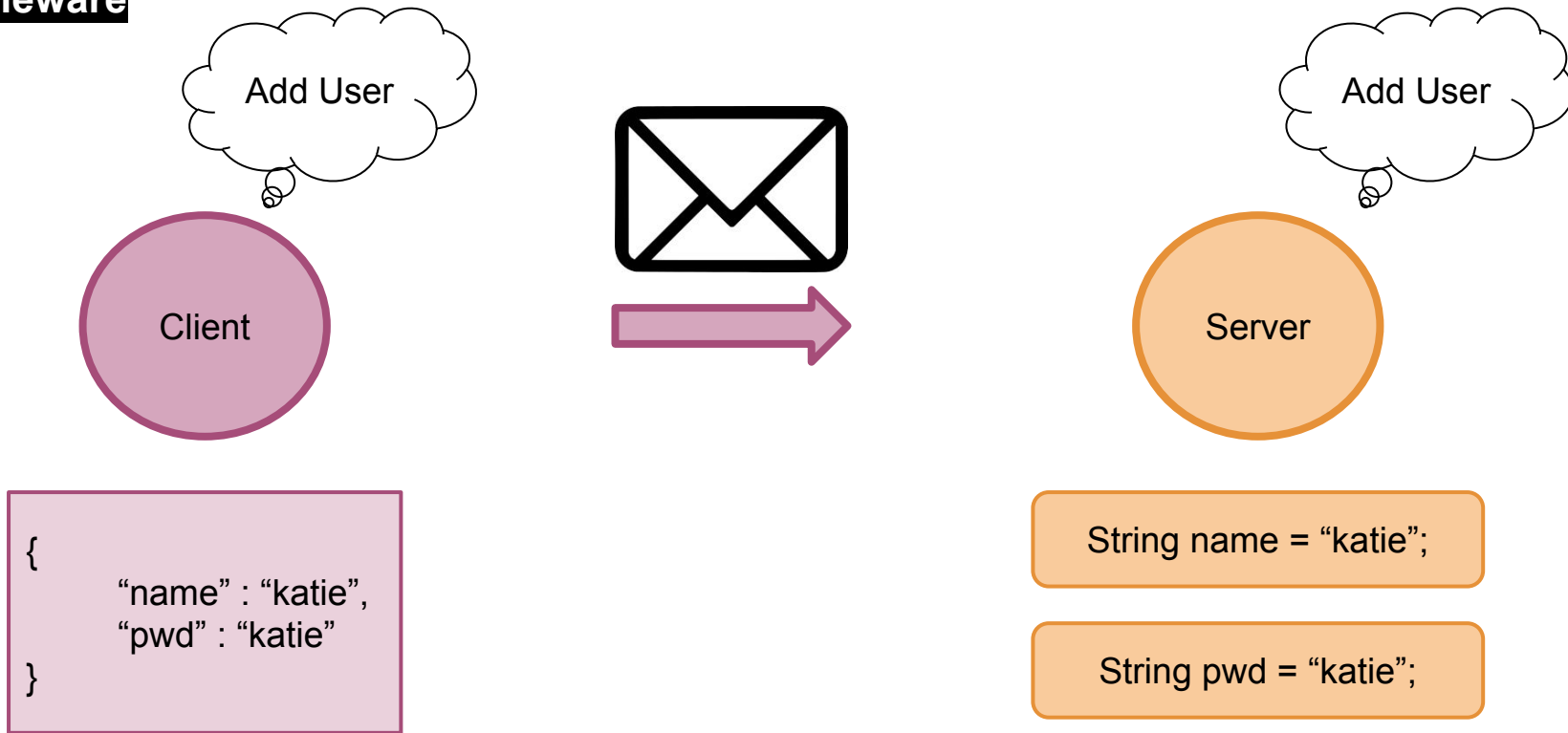
Communication thus far



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Middleware

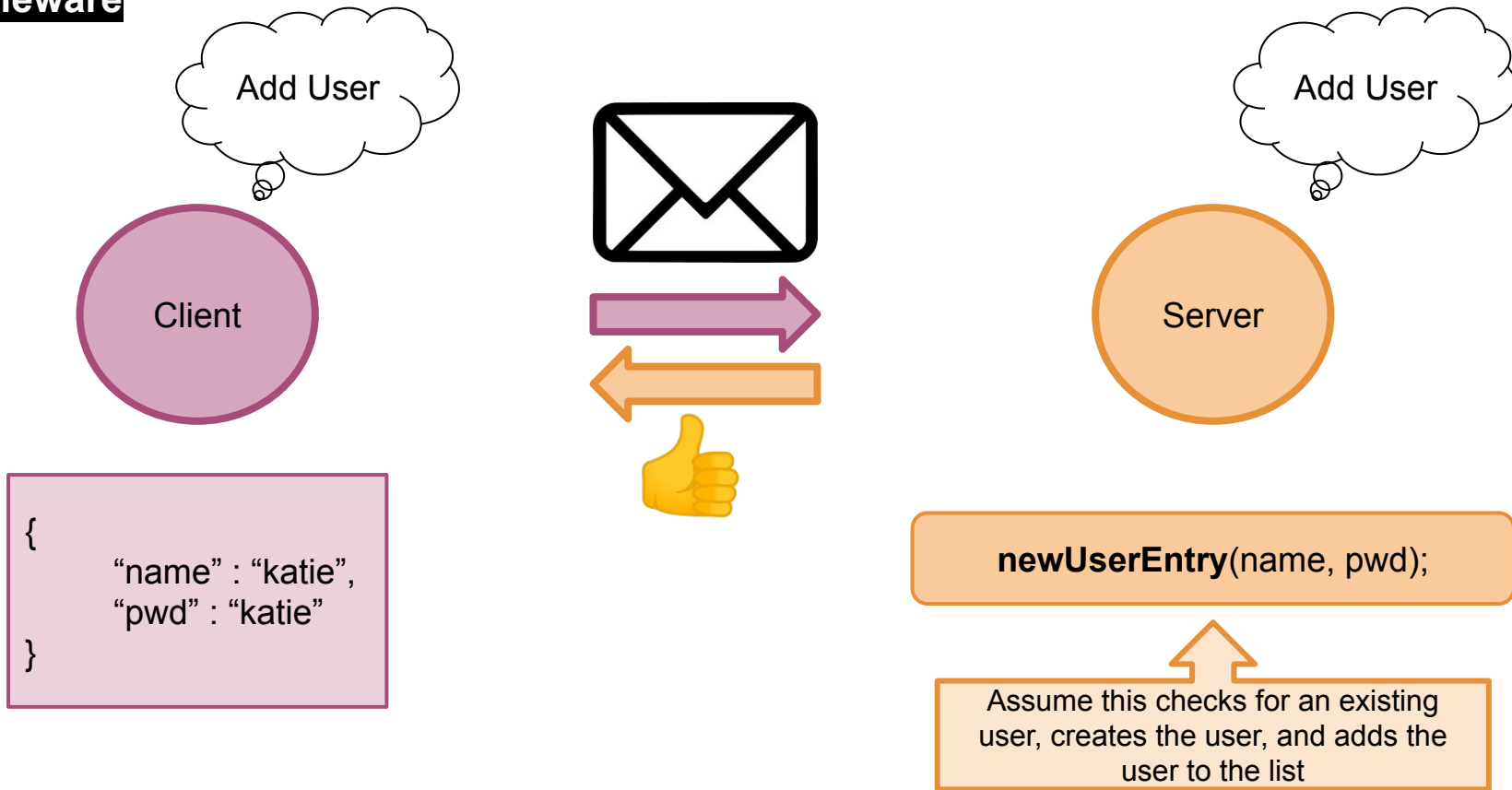
Communication thus far



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Middleware

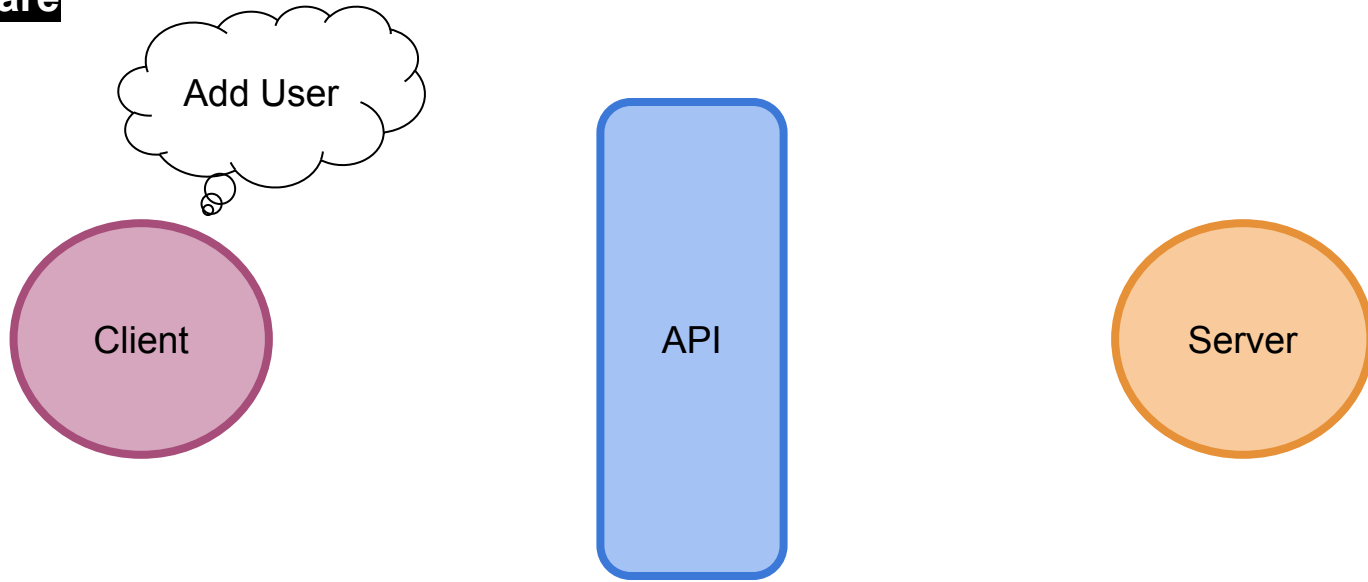
Communication thus far



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Middleware

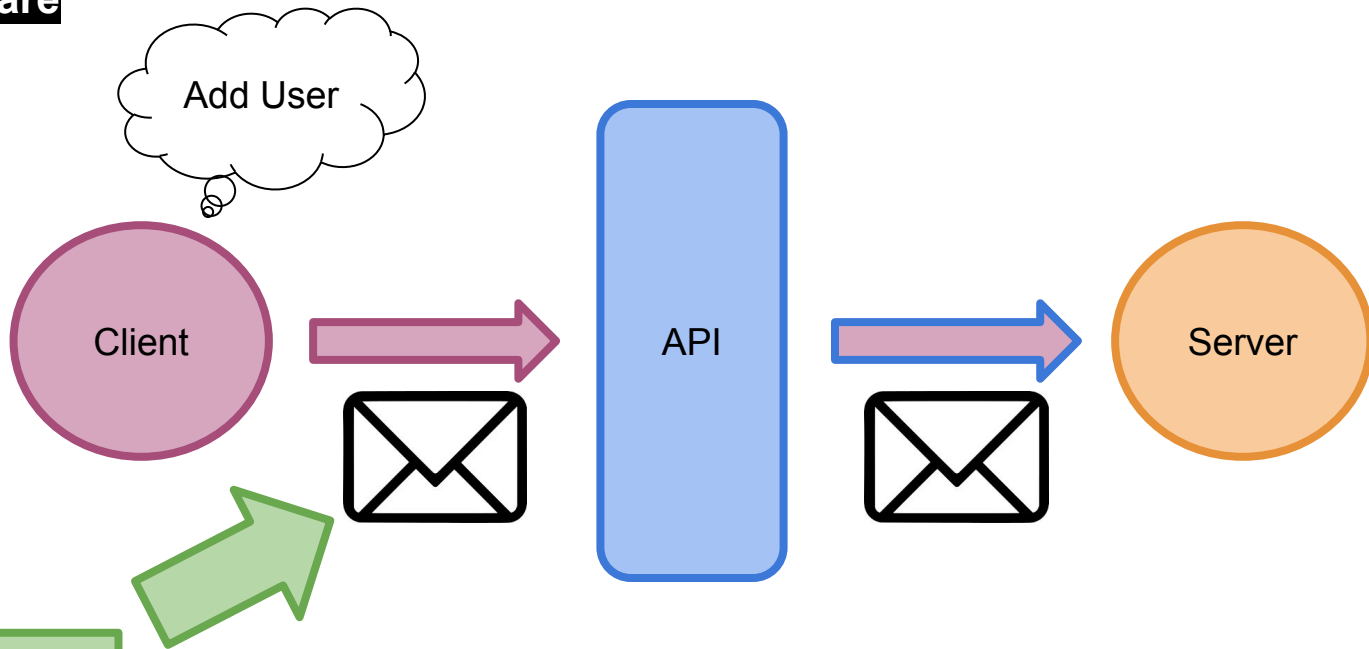
Communication with Middleware



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Middleware

Communication with Middleware



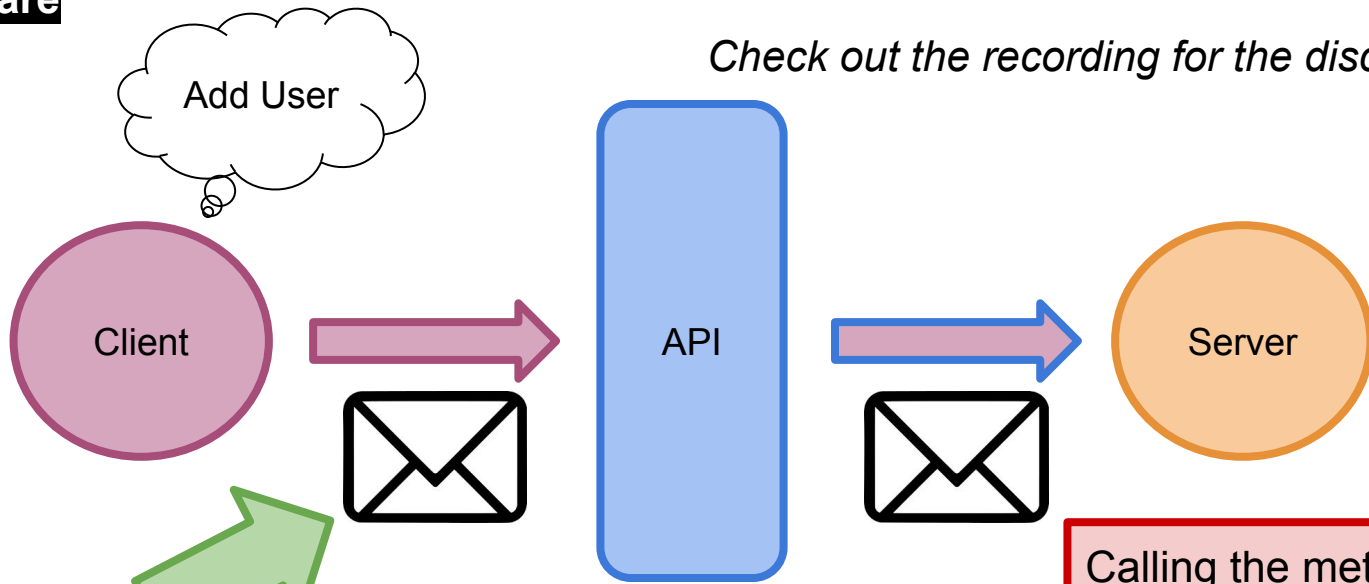
What does this request look like?

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Middleware

Communication with Middleware

Check out the recording for the discussion!



What does this request look like?

```
{  
  "name": "katie",  
  "pwd": "katie"  
}
```

OR

Calling the method as if it was implemented locally!

`newUserEntry("katie", "katie");`



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Assignment 6

Assignment 6 Tips:

**Watch the walkthrough videos
provided!**

**Become familiar with the starter
code before you start making
changes!**

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Starter Code

Client

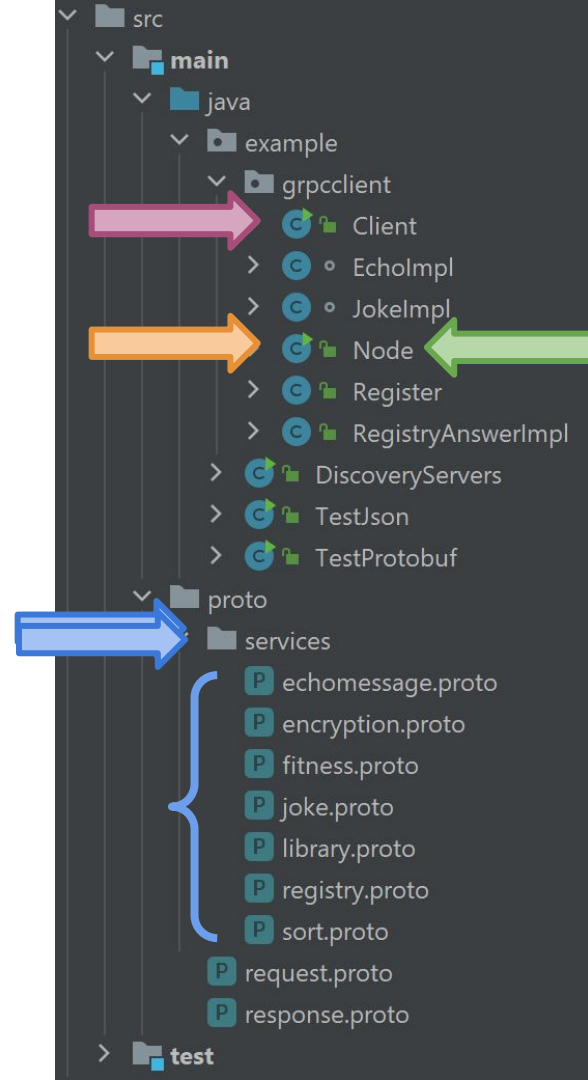
Node

Services

Registry

Where would you find...

Ummm...?



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Starter Code

Client

Node

Services

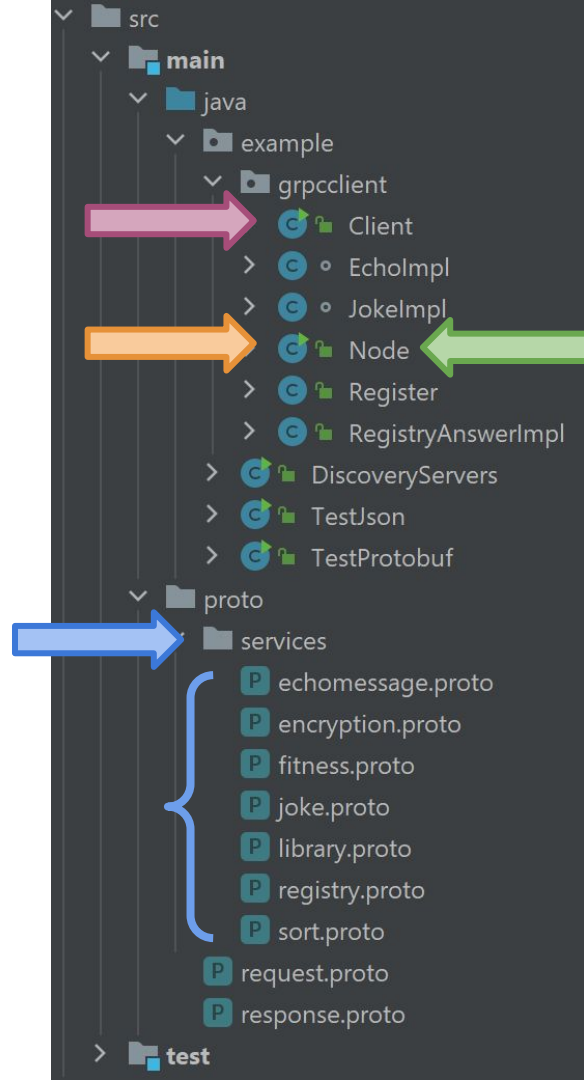
Registry

Where would you find...

Ummm...?



Okay, well then what *is* the registry?



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Starter Code

Client

Node

Services

Registry

Let's examine the structure...

Client

Okay, well what *is* the registry then?

Node

Echo

Joke

Node

Sort

Joke

Node

Echo

Library

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Starter Code

Let's examine the structure...

Okay, well what *is* the registry then?

Client

Node

Services

Registry

Library

Client

Node

Echo

Joke

Node

Sort

Joke

Node

Echo

Library

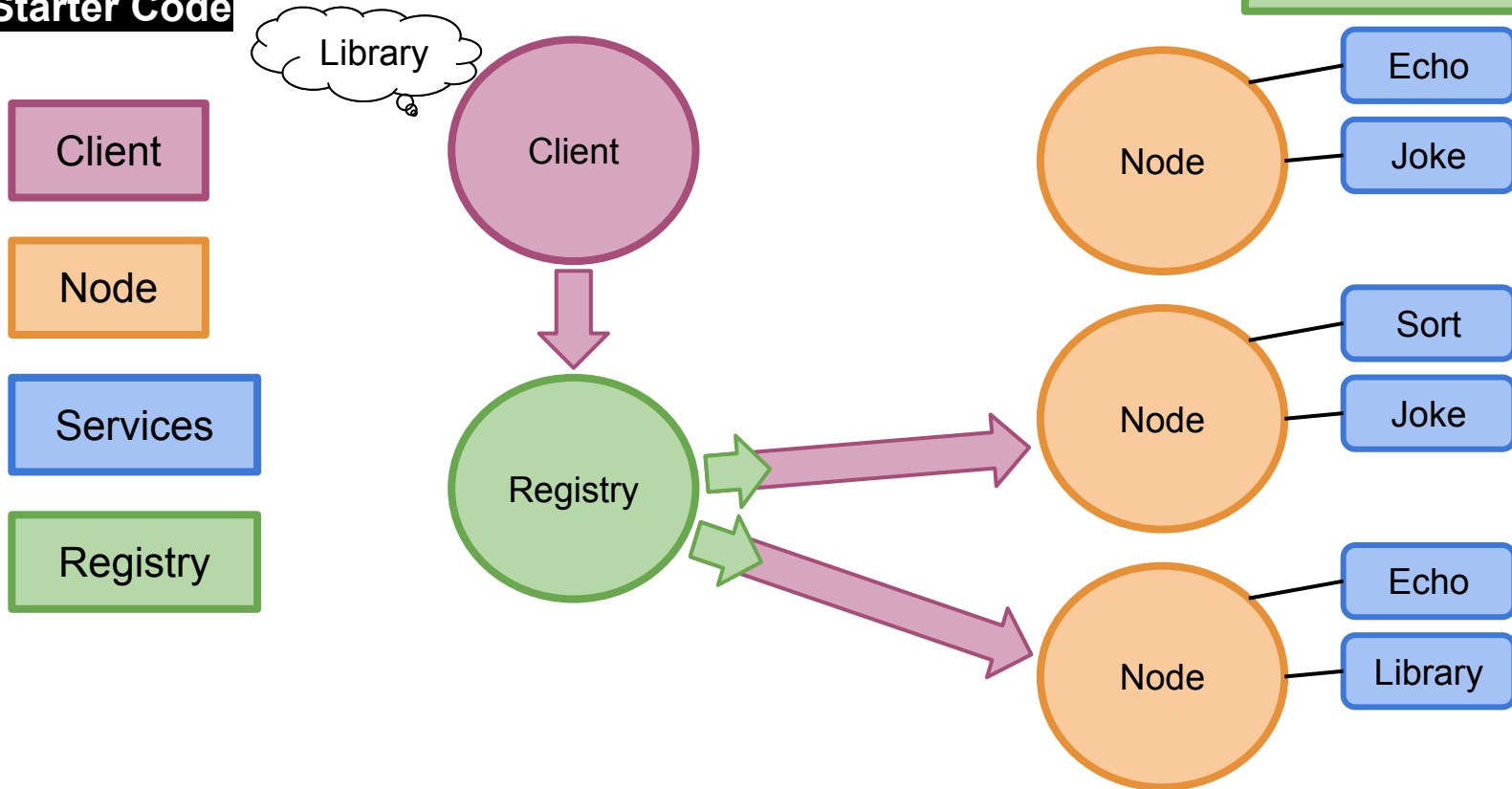
This *assumes* the client knows about all the nodes and their respective services!

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Starter Code

Let's examine the structure...

Okay, well what *is* the registry then?



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Starter Code

Let's examine the structure...

Okay, well what *is* the registry then?

Client

Node

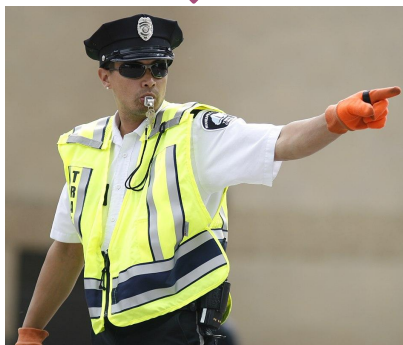
Services

Registry

Directs the client to a node with the requested service

Library

Client



Node

Echo

Joke

Node

Sort

Joke

Node

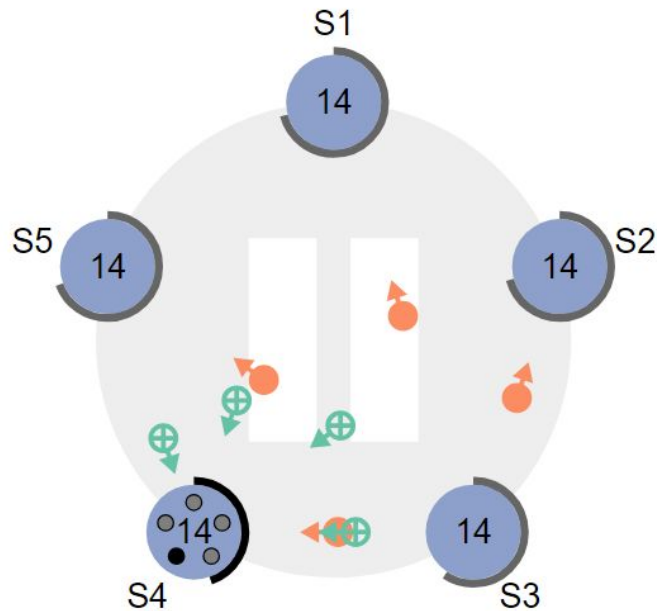
Echo

Library

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RAFT

RAFT



| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----|---|---|---|---|---|---|---|---|---|----|
| S1 | | | | | | | | | | |
| S2 | | | | | | | | | | |
| S3 | | | | | | | | | | |
| S4 | | | | | | | | | | |
| S5 | | | | | | | | | | |



1/59x

3.160s

Questions?

Survey:

https://bit.ly/asn_survey



Upcoming Events

SI Sessions:

- Sunday, November 26th 2023 at 7:00 pm MST

Review Sessions:

- Monday, November 27th 2023
- 5:00 - 7:00 pm MST

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.

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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.

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[Access the drop-in queue](#)

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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-

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[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

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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.

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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!

Additional Resources

[CourRepo](#)

[Dining Philosophers Interactive](#)

[Raft Interactive](#)