SER 321 B Session

SI Session

Sunday November 19th 2023

7:00 - 8:00 pm MST

Agenda

Review Threaded Pitfalls

Common Issues for Distribution

Review OSI Model

Middleware

Review Consensus (RAFT)

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

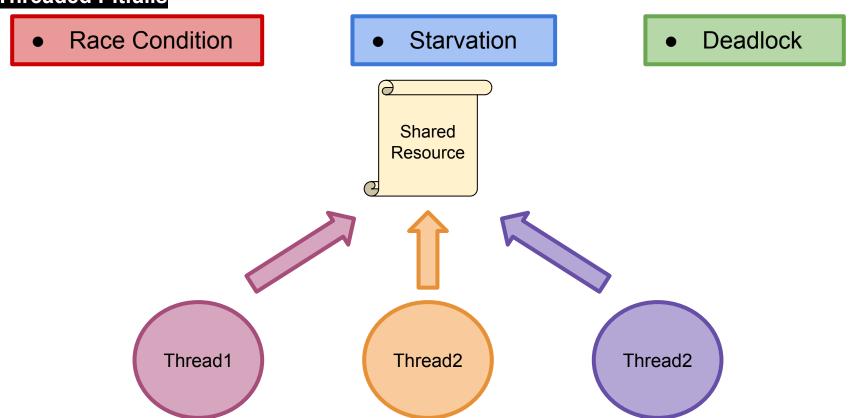


Zoom Chat

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

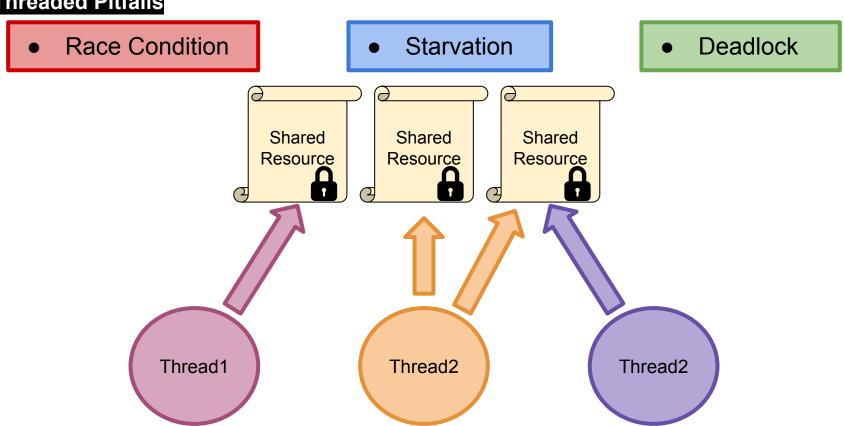
Which threading pitfall is depicted below?

SER 321 Threaded Pitfalls



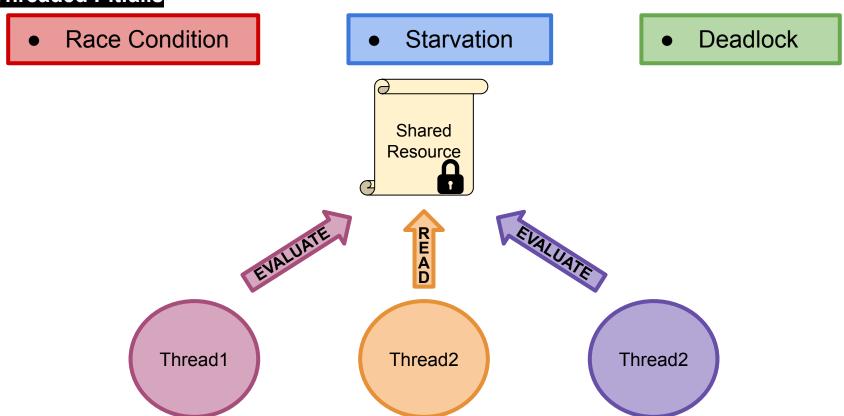
Which threading pitfall is depicted below?

SER 321
Threaded Pitfalls

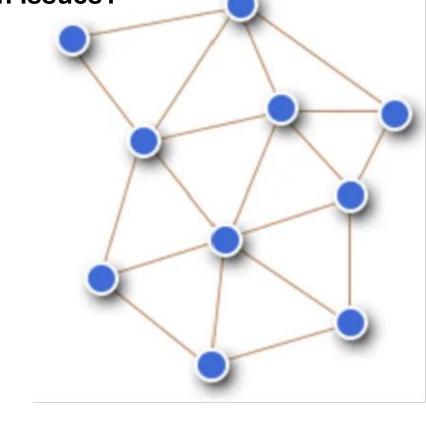


Which threading pitfall is depicted below?

SER 321
Threaded Pitfalls



Do we remember the common Distribution issues? **SER 321** Distribution Issues



SER 321 Big Picture Review

Layer	Data Unit	What we mean
	Data	
	Data	
	Data	
	Segments	
	Packets	
	Frames	
	Bits	

Layer	Data Unit	What we mean
Application	Data	
Presentation	Data	
Session	Data	
Transport	Segments	
Network	Packets	
Data Link	Frames	
Physical	Bits	

Intro to Middleware video

SER 321 Middleware



Constructing messages manually

Converting to bytes

Sending over stream

Handling the message

Application was responsible for verifying protocol and parsing data

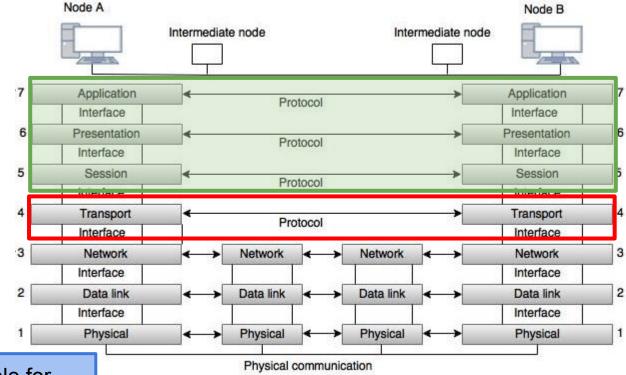


Fig: OSI Model

Intro to Middleware video

SER 321 Middleware

Middleware

Middleware will handle the communication for us!

"Glue between low-level OS communications and programming language"

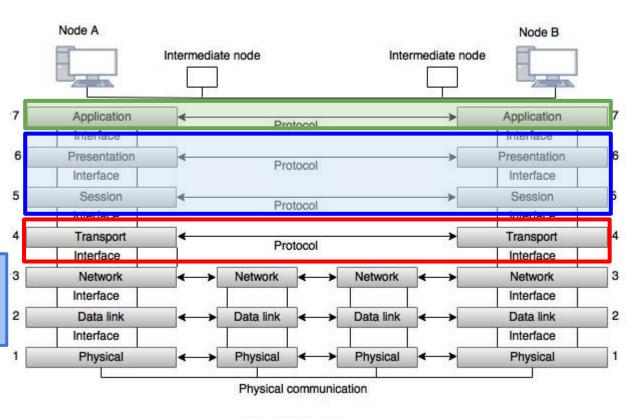


Fig: OSI Model



What is it?

Web Frameworks

Django, Express.js, Angular ASP.NET, jQuery, etc.

Remote Procedure Calls (RPC)

gRPC from the Assignment!



Intro to Middleware video

SER 321
Middleware

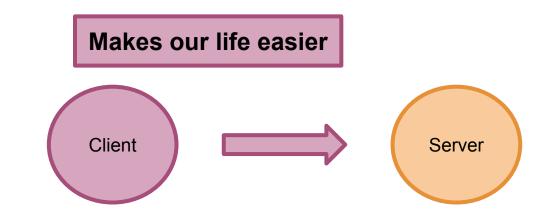
Why do we care?

Agility

Portability

Efficiency

Cost Effectiveness



SER 321 Middleware

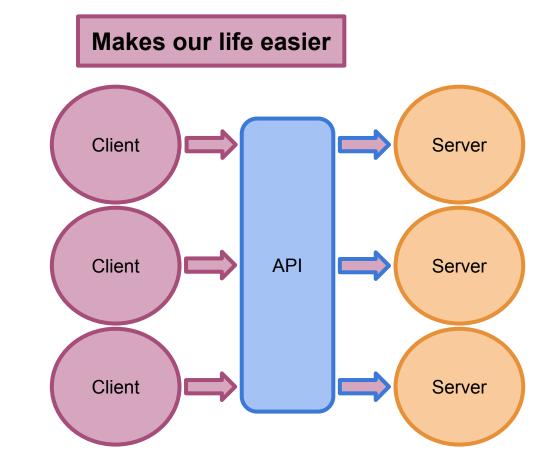
Why do we care?

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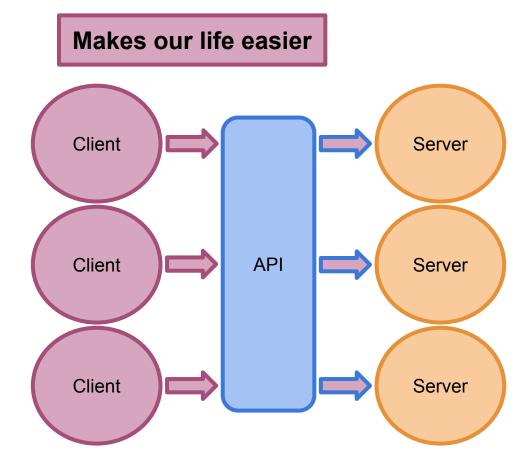


SER 321 Middleware

Why do we care?

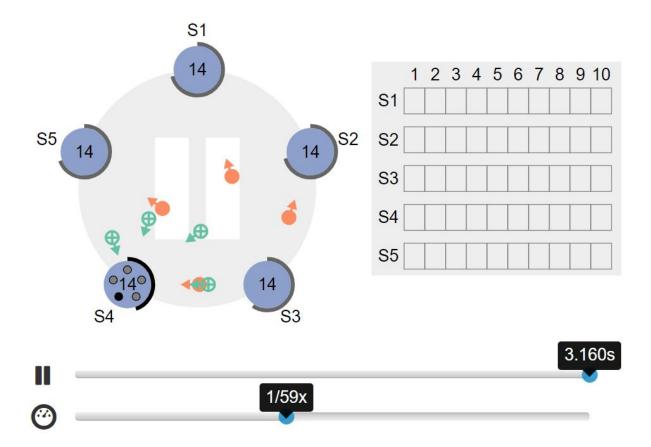
If you follow this format

I'll give a response



SER 321 RAFT

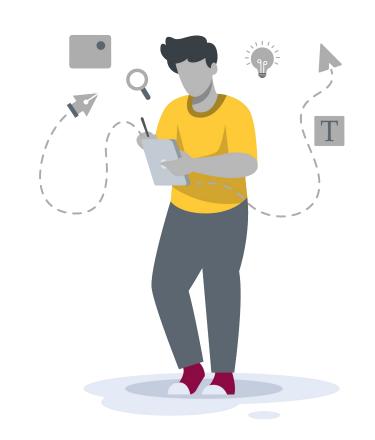
RAFT



Questions?

Survey:

https://bit.ly/asn_survey



Upcoming Events

SI Sessions:

- Monday, November 20th 2023 at 4:00 pm MST
- 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



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

Services



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Access your appointment link

Access the drop-in queue

Schedule Appointment



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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.
- 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!

Additional Resources

CoureRepo

Dining Philosophers Interactive

Raft Interactive