

CS 310 : Scalable Software Architectures

Week 05 (Oct 21 – 25)



October 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

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This week in CS 310:

- *Focus this week:*
 - *Scalability, performance, serverless*
- *Project 02 has been released, two steps:*
 1. *Program web service for PhotoApp, rewrite client*
 2. *Configure AWS EC2 to host web service*
 - *Both parts due Friday October 25th @ 11:59pm*
- *Exam on Tuesday, October 29th in class*
 - *In-person, hand-written*
 - *Multiple choice, short answer, code read / write*
- *Some optional readings on JavaScript coding:*
 - <https://bit.ly/async-js-intro-01>
 - <https://bit.ly/async-js-intro-02>

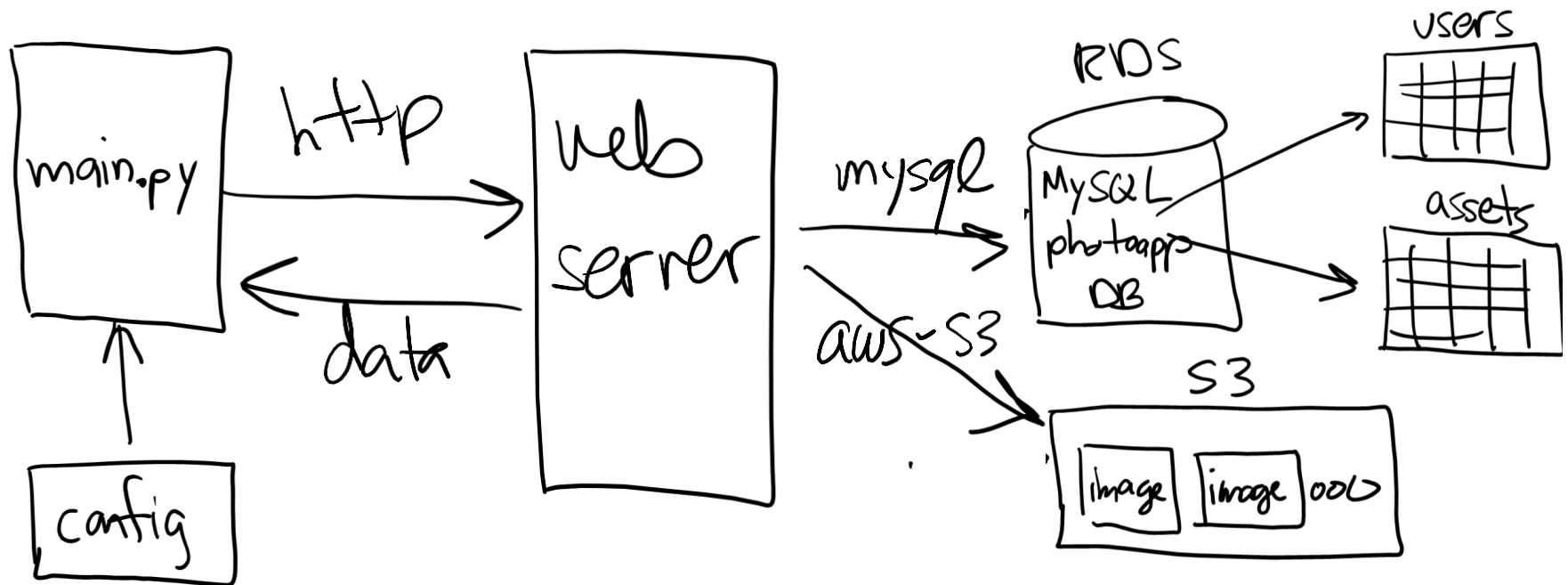


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Topics

- **Review: node.js execution model**
- **Scalability**
- **Horizontal vs. vertical scaling**
- **Performance: latency, bandwidth, throughput**
- **Measuring performance with apache benchmark**
- **Introduction to serverless computing**

Project 02



Class sessions

- **Tuesday:**

- *Abstract server-side design scenarios --- "how would you execute these N operations concurrently, given this set of restrictions on the order of operations"*
- *GET vs. PUT/POST requests, testing with postman.com vs. python-based client*

- **Thursday:**

- *Sample exam questions*
- *Q&A: lecture recordings, project 02?*