CS 310 : Scalable Software Architectures
Week 08 (Nov 11 – Nov 15)

NOVEMBER 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

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This week in CS 310:

- *Focus this week:*
  - *Software execution, VMs, Docker*
  - *Async architectures, Distributed Systems*
  - *CAP*

- *Project 03 has been released*
  - *Serverless, event-driven PDF analysis*
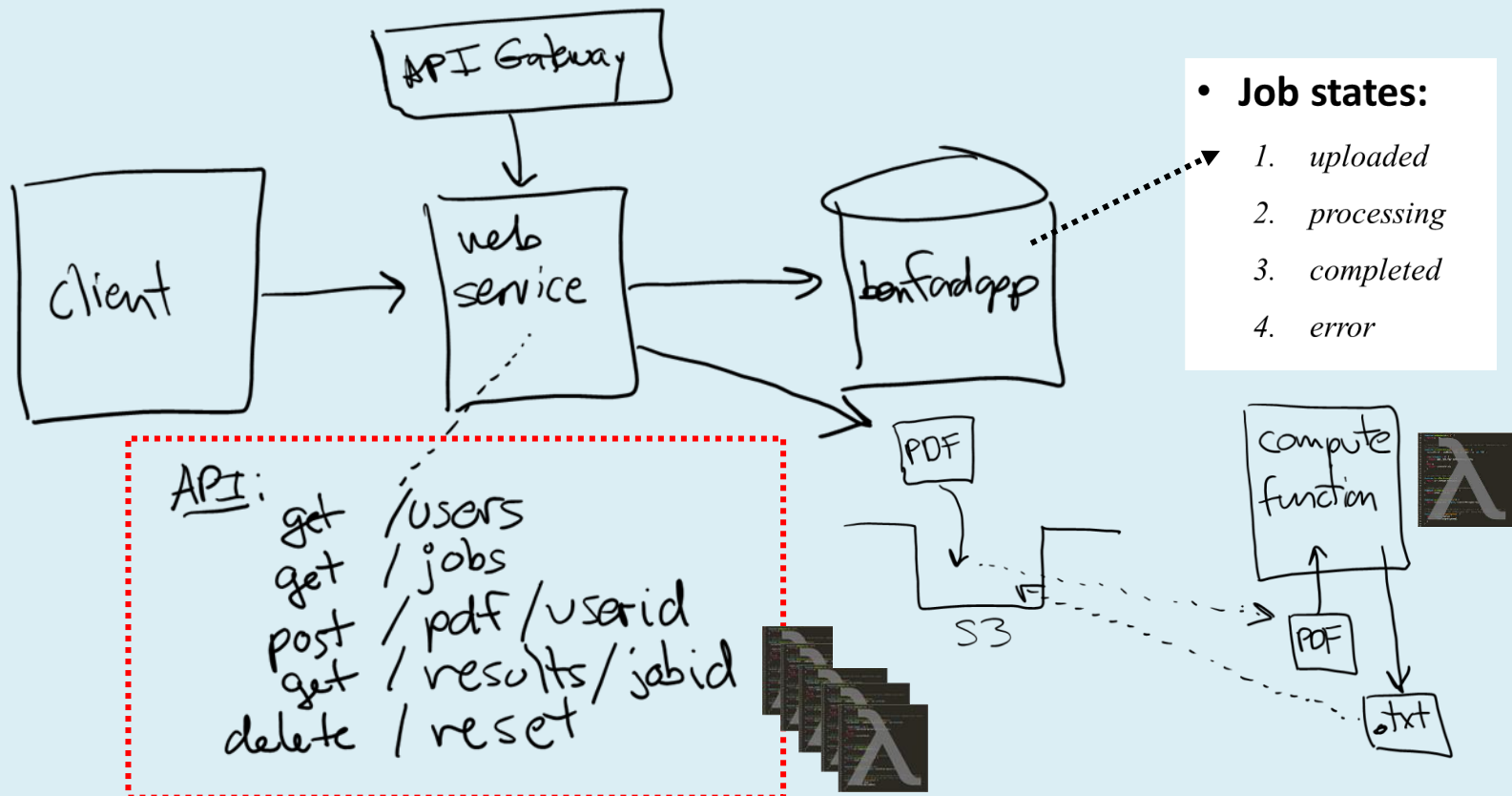 - *Due Friday November 15th (late Sunday Nov 17th)*

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Project 03

- **Project 03 uses a different architectural approach:**
  1. *Event-driven*
  2. *Serverless*
  3. *Asynchronous API*

- **Job states:**
  1. *uploaded*
  2. *processing*
  3. *completed*
  4. *error*

API:
get /users
get /jobs
post /pdf/userid
get /results/jobid
delete /reset

Topics

- **Software execution and packaging**

- **Virtual machines**

- **Docker**

- **Async architectures**

- **Queueing**

- **Distributed systems**

- **CAP theorem**

Class sessions

- **Tuesday:**

  – *Hands on with Docker*

- **Thursday:**

  – *We may cancel the class session*