

REAL-WORLD ENGINEERING II

Webapps

Modularity  Correctness

Real-world engineering 

CS-214 W09 SE – 2025-11-10

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Quick announcements

Congrats on the midterm!

graded in 1-2 weeks.

Unguided-callback checkoffs

done this afternoon.

Final exam

on January 22nd.

Prepare!

Unguided-lab

starting this week.

The plan for CS-214.SE

- Make you (better) software engineers
- Show you how to figure things out

Versioning and collaboration 

3 lectures

Writing correct code 

4 lectures

Building apps from scratch 

2 lectures

+ unguided lab

Refactoring & code evolution 

Callbacks

PLANNING AHEAD FOR THE WEBAPP LAB

What?

Design and build a multi-user webapp

How?

- Register a team *Week 9*
- Train with the guided lab *Week 9-10*
- Write a proposal *Week 10*
- Implement your app *Week 10-13*
- Submit your code, tests, and Git history *Week 13*
- Get a checkoff *Week 14*

This week

Webapps

The structure of a webapp

Intro to webapp-lib

Demo

User stories

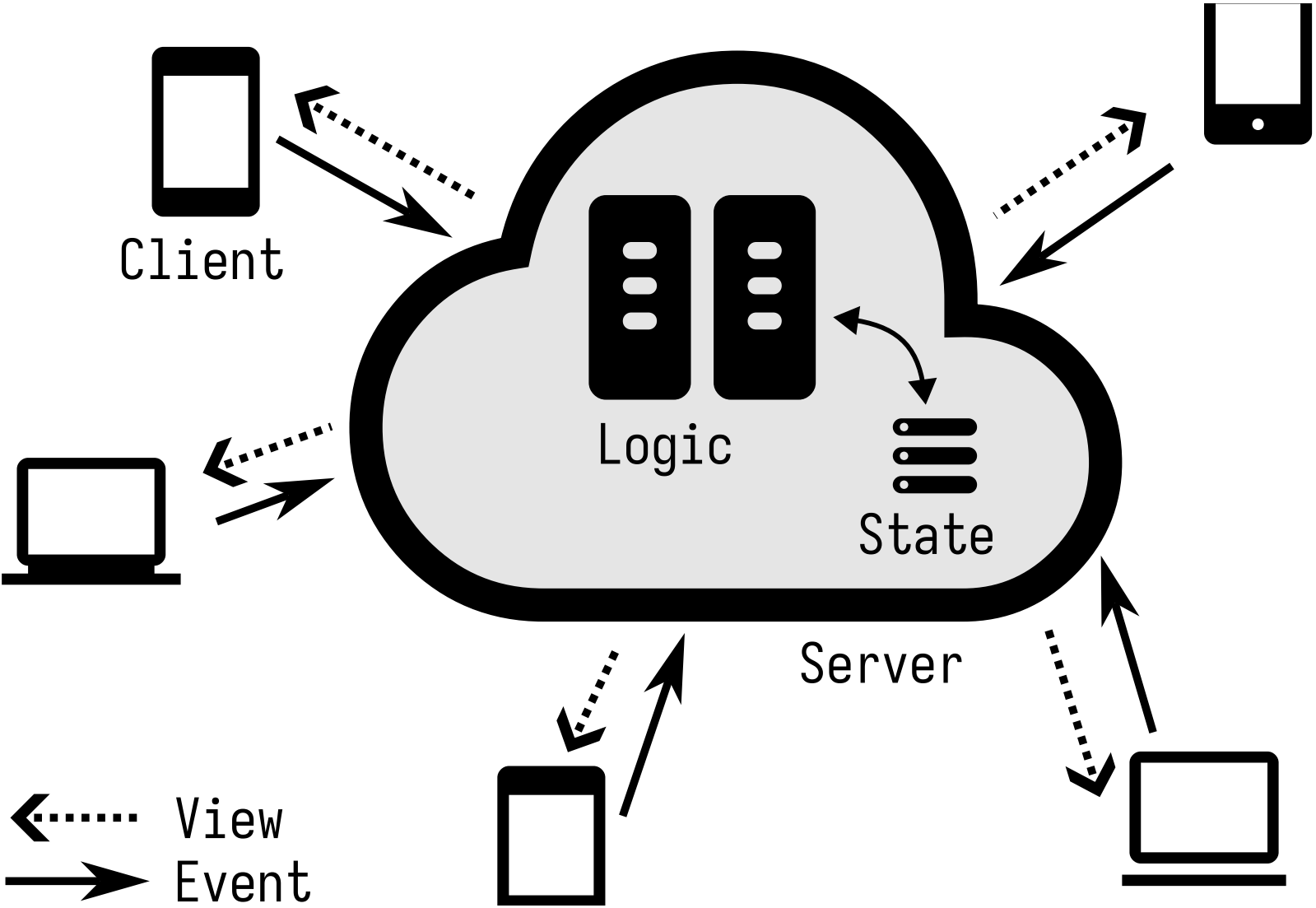
Requirements

Logic

UI

Tests

A SIMPLE WEBAPP MODEL



DEMO

TICTACTOE + MEMORY

PART I

USER STORIES

PART II

REQUIREMENTS

- States, actions, views
- Client and Server interfaces

PART III

LOGIC

- Transitions
- Serialization
- Rendering

PART IV

UI

- Text
- HTML
- ...

PART V
TESTING

(At home)