

CS304

Software Engineering

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Welcome to the first lab!

Objective today:

- Get to know your classmates for the class project
- Learn about roles in software development teams

Let's play a game

- Many roles exist in a software development team
- How to play?
 1. Learn about the responsibilities for each role
 2. Decide which role you want to play
 3. Answer interview question about each role
 1. **Do not search online for answer!**
 4. Decide which role you want to play based on your suitability

Which roles do you want to be?

- Software Engineer
- Software Engineer in Test
- Technical Project Manager

What do Software Engineer do?

- Responsibilities:
 - Designing and coding tools.
 - A team player who works well in a collaborative environment with peers in other development disciplines, Quality and Program Management.

What do Software Engineer in Test do?

- Responsibilities:
 - Build advanced automated test suites to exercise our applications.
 - Work with the development and test engineering teams to automate testing.
 - Conduct research on emerging technologies.
 - Analyze and decompose a complicated software system and design a strategy to test this system.

What do Technical Project Manager do?

- Responsibilities:
 - Lead project as technical architect in initiation phase to conclude right approach with several team
 - Work as project manager to make project through collaboration with development manager and product manager
 - Involve in multiple project executions simultaneously

Which role you want to be?

Discuss with your classmates sitting around you

- Why you want to be ...?
- Do your classmate think that you are suitable?

Discuss around ~5 minutes

Which role you want to be?

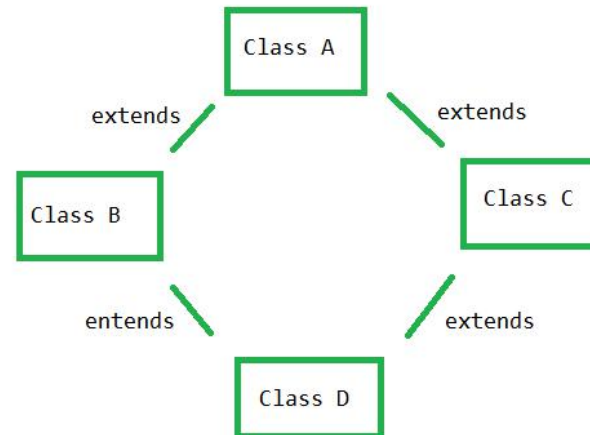
- How many of you want to be a Software Engineer?
- How many of you want to be a Software Engineer in Test?
- How many of you want to be a Technical Project Manager?

Now try answering interview questions for all roles..

Software Engineer

A real interview quick question I get when I was a student:

- **Does Java support Multiple inheritance?**



Discuss around
~2 minutes

Software Engineer In Test

Interview Question:

- Write test cases for adobe reader

Discuss around
~10 minutes

Technical Project Manager

Interview Question:

- Choose a Google/Microsoft/Tencent/Apple product and talk about it, what do you like about it, what would you improve.

Discuss around
~10 minutes

Which role you want to be now?

Discuss with your classmates sitting around you

- How many of you want to be a Software Engineer?
- How many of you want to be a Software Engineer in Test?
- How many of you want to be a Technical Project Manager?