

AJF Final Project

Two options below, please pick one

Option 1: Advance Your Capstone

Create a project that uses the concepts that were taught in class to create either a demo of your capstone prototype, or a component of your capstone project. After this course you may decide to only use parts of this for your capstone, or none of it, but it should help you work out some ideas and concepts.

Working in a Group

You can work with your capstone group members (ideally in our class, but we can easily work with other PROG 39599 Advanced Java Frameworks sections as well) for this project.

Project Size

This does not need to be a completed capstone; however, it should be a good starting point with areas to expand your ideas. It should represent a significant amount of work **per group member**. Divide up the work properly so that one person is not burdened with the majority of the project.

Other Components

Your capstone project may include multiple components that are not Java. This is perfectly normal and acceptable within a capstone. You should illustrate how these non-Java components interact with your Java project(s). A significant portion of your project should of course use Java and the technologies taught.

Presentation

Be prepared to present, as a group, in our class time to the class, your work. Your presentation should be 10-15 minutes in length, all group members must speak, and your presentation should include the following:

- Intro – your project in one sentence
- What problem are you trying to solve?
- How does your product solve the problem?
- Demo – show me the money!
- Project Future – where your team will take this next and where you hope to finish!

Option 2: Teach Us Something

Instead of developing a capstone, present a new technology related to the material taught in our course. Expand on something we have done, or introduce another interesting concept or technology, so long as it relates to our overall subject at hand. You may have ideas from your capstone projects, or you might do some research on your own. I can also offer potential suggestions if you ask me privately.

Working in a Group

You can work by yourself or with a partner. If you wish to work in a group larger than two, you must ask for and receive approval.

Topic Choice

Your topic should ideally cover a new Java or Java adjacent technology that has not been outlined in the class plan, but which integrates well with the topics we have covered. There's more to know!

Presentation

Be prepared to present, individually or as a group, in our class time to the class, your work. Your presentation should be 10-15 minutes in length, all group members must speak, and your presentation should include the following:

- A high-level overview of the new technology
- A short build toward successful use of it
- A demo of it in action
- Why we need to know!

Note: new technologies do not necessarily require fully functional and purpose-built systems around them. The point here is to demo the technology, not the app! Feel free to use Student, Appointment, or whatever you wish, so long as the technology is clear.

Deliverables (either option)

With your choice made, one group member only must email me all group members and your project purpose / plan.

Before your presentation, please submit your PowerPoint file, all code, and any other relevant digital information to SLATE. If you use external references or tutorials to assist you while you're learning, please be sure to also include them at the end of your PowerPoint – credit where credit is due!

And please do not lean too heavily into AI to build presentations, code, or write-up anywhere here. This should represent your own human efforts – save AI for the workplace! Offenders will be prosecuted.

Evaluation (either option)

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| • Project scope (sufficient size and technical difficulty) | 5 |
| • Presentation including working demo | 15 |