

5 Software Architecture

Get ready!

- Before you read the passage, talk about these questions.
 - What is the purpose of software architecture?
 - What are some different views in software architecture?

Reading

- Read the agenda. Then, choose the correct answers.
 - What is the purpose of the meeting?
 - to give progress updates on different projects
 - to assign tasks to each employee
 - to explain new techniques in software architecture
 - to brainstorm new applications to develop
 - Which of the following is NOT a topic that will be covered at the meeting?
 - plans for developing the deployment view of accounting software
 - idioms that can be used to create modules
 - problems caused by design patterns
 - new programming plans for future projects
 - What will the problem solving presentation focus on?
 - examinations of application frameworks
 - the progress of the process and implementation views
 - new programming plans that have been developed
 - examples of previous mistakes



Meeting Agenda – July 22nd

Presentation Information:

Sheryl will discuss the updated **application framework** for our new accounting software. The **process view** and **implementation view** of the project are already complete. Sheryl will share those views with us. She will also talk about developing the **deployment view**. Finally, she will share plans for the **conceptual view** in the next phase.

Then, Scott will share some of his new **programming plans**. These general plans will be helpful for various current and future projects.

Erik will present on his team's new word processing **modules**. These modules will be the basis for several software upgrades. He will explain how simple **idioms** can create complex modules.

Finally, Maria will give a presentation on utilizing **design patterns**. These can be used to solve common problems in **software architecture**. Her presentation will focus on mistakes during our last project. This should give us an idea of which areas need the most improvement.

Vocabulary

- Match the words and phrases (1-4) with the definitions (A-D).
 - ___ conceptual view
 - ___ implementation view
 - ___ process view
 - ___ deployment view
 - a view that shows modules of packages and layers
 - a view that shows the way tasks are assigned to physical nodes
 - a view that shows major design elements and interactions between elements
 - a view that shows the interaction of tasks and processes of a system

- 4 Fill in the blanks with the correct words and phrases from the word bank.

WORD BANK

application framework design pattern idiom
module programming plan software architecture

- _____ divides the components of software according to their functions.
- A(n) _____ is a commonly used fragment of code.
- Similar software functions may be bundled into a(n) _____.
- Families of systems are connected with a(n) _____.
- A(n) _____ is used for common functions or actions.
- A(n) _____ can be used to fix common problems.

- 5 Listen and read the agenda again. What information will Sheryl present?

Listening

- 6 Listen to a conversation between a manager and a software engineer. Mark the following statements as true (T) or false (F).

- ___ The woman will give the same presentation to a different client.
- ___ The man gives the woman advice on improving his presentation.
- ___ The implementation view for the new project is complete.

- 7 Listen again and complete the conversation.

Manager: No. Actually, quite the opposite. I really enjoyed 1 _____ last week on the design pattern for our current project.

Engineer: Really? Thank you. It's hard to 2 _____ to clients, but I did my best.

Manager: You did a great job. Would you be interested in putting together 3 _____ presentation?

Engineer: Sure. I'd be happy to.

Manager: Great. I need to give a presentation to some other clients. It's an overview of our progress on the 4 _____.

Engineer: Sure. Just send me the information. I'm sure I can 5 _____ together.

Manager: Great. We already have 6 _____, I'll send it to you this afternoon.

Speaking

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

If you ... I can ...

Would you be interested in ...

I need to ...

Student A: You are a company manager. Talk to Student B about:

- a presentation that he or she gave
- what you enjoyed about the presentation
- what you would like him or her to talk about in a future presentation

Student B: You are an engineer. Talk to Student A about a presentation that you recently gave.

Writing

- 8 Use the conversation from Task 8 to complete the meeting agenda.

Linda will present on _____.

Terry will present on _____.

Alan will present on _____.