5 Software Architecture

Get ready!

1 Before you read the passage, talk about these questions.

1 What is the purpose of software architecture?

2 What are some different views in software architecture?



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.

Reading

2 Read the agenda. Then, choose the correct answers.

1 What is the purpose of the meeting?

- **A** to give progress updates on different projects
- **B** to assign tasks to each employee
- **C** to explain new techniques in software architecture
- **D** to brainstorm new applications to develop

2 Which of the following is NOT a topic that will be covered at the meeting?

- **A** plans for developing the deployment view of accounting software
- **B** idioms that can be used to create modules
- **C** problems caused by design patterns
- **D** new programming plans for future projects

3 What will the problem solving presentation focus on?

- **A** examinations of application frameworks
- **B** the progress of the process and implementation views
- **C** new programming plans that have been developed
- **D** examples of previous mistakes

Vocabulary

3 Match the words and phrases (1-4) with the definitions (A-D).

1 __ conceptual view

2 __ implementation view

3 __ process view

4 __ deployment view

- **A** a view that shows modules of packages and layers
- **B** a view that shows the way tasks are assigned to physical nodes
- **C** a view that shows major design elements and interactions between elements
- **D** a view that shows the interaction of tasks and processes of a system

LIVEWORKSHEETS

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

1 _____ divides the components of software according to their functions.
2 A(n) _____ is a commonly used fragment of code.
3 Similar software functions may be bundled into a(n) _____.
4 Families of systems are connected with a(n) _____.
5 A(n) _____ is used for common functions or actions.
6 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).**

1 __ The woman will give the same presentation to a different client.
2 __ The man gives the woman advice on improving his presentation.
3 __ 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

9 **Use the conversation from Task 8 to complete the meeting agenda.**

Linda will present on _____ _____.
Terry will present on _____ _____.
Alan will present on _____ _____.

LIVEWORKSHEETS