

TQ 3 : Design - Results



Attempt 2 of 5

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Attempt Score **11 / 11**

Overall Grade (Highest Attempt) **11 / 11**

Question 1

1 / 1 point

It is possible to write code without doing a design first

☐ True

☒ False

Question 2

1 / 1 point

It is possible to create a design without requirements

☐ True

☒ False

Question 3

1 / 1 point

The design phase of the SDLC is where the ___ of a solution is defined

- ☐ Where
- ☐ Why
- ☐ What
- ☒ How
- ☐ Who

Question 4**1 / 1 point**

List the different levels of design detail in the proper order (more abstract to more detailed):

- __3__ Mid Level Design
- __4__ Detailed Design
- __2__ High Level Design
- __1__ Architectural Design

Question 5**1 / 1 point**

Map each level of design to the most affected components of the solutions:

- | | |
|----------------------------|-----------------------|
| __1__ Architectural Design | 1. Scaffolding |
| __4__ Detailed Design | 2. System/Application |
| __2__ High Level Design | 3. Subsystem/Services |
| __3__ Mid Level Design | 4. Class/Method |

Question 6**1 / 1 point**

Data Model is just another name for the Database

- ☐ True
- ☒ False

Question 7**1 / 1 point**

An API can be used to (check all that apply):

- ☐ Define the data model common across systems and subsystems
- ☐ Define control flow between systems and subsystems
- ☐ Model the business logic that is proprietary to the solution
- ☐ Model the division of labor among project teams
- ☐ Define the design patterns used

Question 8**1 / 1 point**

Name the seven most important design patterns according to the link provided in the slide deck (Each answer is one word):

Answer for blank # 1: Singleton

Answer for blank # 2: Factory

Answer for blank # 3: Strategy

Answer for blank # 4: Observer

Answer for blank # 5: Builder

Answer for blank # 6: Adapter

Answer for blank # 7: State

Question 9**1 / 1 point**

In order to ensure a design is accurate and complete, one should perform a...

- ☐ Design Test
- ☐ Design Activity
- ☒ Design Review
- ☐ Detailed Design

Question 10**1 / 1 point**

Entry level developers are most likely to be involved in which level of design (check all that apply)

- ☐ Architectural Design
- ☐ High Level Design
- ☐ Mid Level Design
- ☐ Detailed Design

Question 11**1 / 1 point**

The primary purpose of the Design Phase is ...

- ☐ To leverage all the views and diagrams provided by UML
- ☐ To identify which design patterns will used
- ☐ To create a design document
- ☐ To get to the point where you can implement the solution

Done