Clean Architecture Results for Christine En-Tse Cheng

Submitted Oct 16 at 5:55p.m.

Correct answer

Question 1

1 / 1 pts

Which of the following would be the highest-level policy?

- ✓ Application business rules
  - Yes! These are the furthest from the inputs and outputs of the system.
- How data is stored in a database used by the system
- User interface components
- Framework and driver configurations

Correct answer

Question 2

1 / 1 pts

What is the Dependency Rule in the Clean Architecture? Choose the best explanation.

- All other layers must depend directly on the Entities layer.
- ✓ Dependencies should point inwards towards higher-level policies.
  - The Dependency Rule in Clean Architecture states that dependencies should point inwards toward higher-level policies (like Entities), ensuring that core business logic is not dependent on external factors.
- Each class may only depend on exactly one other class.
- Dependencies should point outwards towards lower-level policies.

Correct answer

Question 3

1 / 1 pts

Which of the SOLID principles is most closely related to the Dependency Rule in the Clean Architecture?

- SRP
- OCP
- LSP
- ISP
- ✓ DIP
  - Without dependency inversion, it would not be possible to have a system that follows the Dependency Rule!

Correct answer

Question 4

1 / 1 pts

What is the role of the innermost layer of the Clean Architecture?

To interact with external data sources and services.

To manage the application's infrastructure and configuration.

✓ To define the core business rules of the domain.

The innermost layer in the Clean Architecture consists of Entities. It is responsible for defining the business rules and logic of the domain in order to keep the core functionality decoupled from the details that exist in the outer layers.

To handle user input and output.

Wrong answer

Question 5

0 / 1 pts

Which of the following best describes a Use Case Interactor in the Clean Architecture?

✗ A specific scenario that outlines how a user interacts with the system to achieve a goal.

This is closer to a description of a user story or an associated use case than a Use Case Interactor; there is a better option.

➔ A central component of the architecture that encapsulates the application business logic, ensuring that the application operates independently of external frameworks and low-level details.

A class that handles user interactions.

A class that the Entities depends on.

Correct answer

Question 6

1 / 1 pts

Which of the following is NOT part of the Use Case layer in the Clean Architecture?

Input Boundary

OutputBoundary

Use Case Interactor

✓ Data Access

The *Data Access Interface* is part of this layer, but the Data Access object — which provides the implementation — is in an outer layer.

Correct answer

Question 7

1 / 1 pts

Which layer of the Clean Architecture is expected to change most frequently as technologies evolve?

Use Case layer (Application Business Rules)

Entities layer (Enterprise Business Rules)

✓ Frameworks & Drivers

Correct! This is why Frameworks & Drivers is designed as the outermost layer!

Interface Adapters

Correct answer

Question 8

1 / 1 pts

Match the part of the Clean Architecture with its description. Please refer to the CA Engine diagram from the course notes.

Displays information and reacts to user interaction.	View
This class reads and writes persistent data to a file or database outside the program.	Data Access
This class implements the Input Boundary.	Use Case Interactor
The interface that specifies how the Use Case Interactor will need to access data in order to perform its job.	Data Access Interface
The class that contains the data that the View will then display.	View Model
Class in the Interface Adapters layer that passes information through the Input Boundary.	Controller
Class in the Interface Adapters layer that implements the Output Boundary.	Presenter

Other Incorrect Match Options:

- Output Data
- Input Boundary
- Input Data
- Output Boundary
- Entity