OutSystems Architecture-Specialist-11 Practice Questions

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Question 1

Question Type: MultipleChoice

What is NOT a best practice for Mobile Application Architecture: Limit server side calls?

Options:

A- Limit Server side calls to online transactions or Synchronization. Do the bulk of the operations on the Client Side before passing information to the Server Side.
B- Synchronize on every screen or online event for better granularity
No direct calls to backend systems. Do call to Outsystems Core Services and Outsystems will handle the interaction with external backend systems.
C- Direct calls is bad from Security, Performance and Maintainability standpoint. Direct calls will require javascript Code and javascript Code is harder to maintain.

Answer:

B

Question 2

Question Type: MultipleChoice

_CW module is for

Options:

A- Logic to Synchronize data in CS's with an external system. Isolating this logic makes the CS completely system agnostic and it's easier to decouple or replace the external system.
B- A BL becomes a Calculation Engine if it performs complex calculations, (e.g. an invoice calculation engine or an insurance simulator). Engines are usually subject to versions.
C- Technical wrapper to expose an API to External consumers, keeping core services system agnostic and supporting multiple versions of the API.
D- Core Widgets (blocks), to manage complexity, composition or to have its own lifecycle.
E- Reusable Core Services with public entities, actions, and blocks.

Answer:

D

Question 3

Question Type: MultipleChoice

Which of the below is NOT a reason why application Architecture is important when building quality software solutions?

Options:

A- Reduces Costs : Architecture benefits are not only technical, but affect how you operate
B- Reduces Risk : Architecture is a cost effective way to mitigate substantial risks and ensure ^ success
C- Manages Complexity : Helps reduce emerging complexity by focusing on relevant properties and omitting irrelevant details, thus leading to simpler representation
D- Facilitate Change : When something comes up that requires you to veer from the origina design or path, architecture of your system can show you exactly what needs to change and help with communication and planning.
E- Supports Planning : Helps the team anticipate and build solutions
F- Helps Communication : Helps you to get buy in from the business and to communicate overall plan to them
G- Drives Consensus : Helps create common ground with the team

Answer:

F

Question 4

Question Type: MultipleChoice

_API module is for

Options:

A- Logic to Synchronize data in CS's with an external system. Isolating this logic makes the CS completely system agnostic and it's easier to decouple or replace the external system.
B- A BL becomes a Calculation Engine if it performs complex calculations, (e.g. an invoice calculation engine or an insurance simulator). Engines are usually subject to versions.
C- Technical wrapper to expose an API to External consumers, keeping core services system agnostic and supporting multiple versions of the API.
D- Reusable Core Services with public entities, actions, and blocks.
E- Isolated Business Logic (Actions) or Core Widgets (blocks), to manage complexity, composition or to have its own lifecycle.

Answer:

C

Question 5

Question Type: MultipleChoice

Which of the below matches the most to Core Module Pattern - ECS Summary Cache only variation

Options:

A- Same as Base ECS pattern, but have a local replica. Store data to serve as a local cache. Pro: Leverage Entity Use, Simpler Integration API. Con: Less impact on source system
B- ... caches only summary data that is frequently lister, joined or searched. Full detail for a (*) single entry is fetched directly from external system. Use when whole database too big or costly to synchronize. Details are only required for single entities (not lists)
C- Same as ECS with local replica but synchronization logic is separated. Pro: Code independence. Consumers of CS is not affected by Sync. Sync can orchestrate several CS
D- Same as ECS with local replica but API module is provided. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
E- ... Entity is exposed as read-only and API is available to centralize business logic for entity ^ creation/update
F- ... is needed if data is coming from MULTIPLE external systems. IS will decide which driver to use depending on the data.
G- ... tries to fetch data from local cache entity, if not there, get single entry from the external p system. Cache only that record (read-through caching) Use when whole database too big or costly to synchronize. Integration only touches a small portion of the database. Avoid if access to lists of data is needed up front.
H- ... a wrapper used to contain the logic, actions and data that will expose code that is inside of) external library or to inspect external database and import the data structures so they can be used as entities inside of OS
I- ... Entity is not in Outsystems but in an external ERP system. IS just makes remote call to . external system/database. No data is being kept inside OS. Data retrieval may not be optimized as it needs to traverse two different systems to get the information back. Con: Integration API must support all use cases
J- ... is a pattern with two modules, a connector module that can be used to encapsulate an) external API with the input/output structures and a wrapper module to expose the normalized API to the consumers.

Answer:

B

Question 6

Question Type: MultipleChoice

The Architecture Canvas is a ...

Options:

A- framework to support Architecture Conventions for Modules in Outsystems
B- framework to support application architecture design in Outsystems
C- framework to support Architecture Design Process in Outsystems

Answer:

B

Question 7

Question Type: MultipleChoice

Which of the following is a benefit of having good architecture?

Options:

A- Poor service abstraction
B- Unmanageable dependencies
C- Manages complexity
D- Slow-moving legacy systems

Answer:

C

Question 8

Question Type: MultipleChoice

Considering Discovery, Which option best sentences is FALSE?

Options:

A- Discovery automatically assigns a module to an Architecture Canvas layer, following the module's naming convention.
B- Discovery only validates architecture rules at the module level.
C- Discovery allows you to determine for every module, which elements are being consumed by other modules.
D- Discovery cannot categorise modules to domains

Answer:

B

Question 9

Question Type: MultipleChoice

_Eng module is for

Options:

A- Isolated Business Logic (Actions) or Core Widgets (blocks), to manage complexity, compositio or to have its own lifecycle.
B- Logic to Synchronize data in CS's with an external system. Isolating this logic makes the CS completely system agnostic and it's easier to decouple or replace the external system.
C- A BL becomes a Calculation Engine if it performs complex calculations, (e.g. an invoice calculation engine or an insurance simulator). Engines are usually subject to versions.
D- Technical wrapper to expose an API to External consumers, keeping core services system agnostic and supporting multiple versions of the API.
E- Reusable Core Services with public entities, actions, and blocks.

Answer:

C

Question 10

Question Type: MultipleChoice

Regarding Validation Rules for application composition, which of the following sentences is correct?

Options:

A- Common modules and services should be isolated in a separate app that can be referenced by other apps.
B- Owners of the Application should not be mixed, but mixing Sponsors has no direct impact on the release.
C- If you follow all the rules for validating modules, your application composition will be sound, and easy to maintain and deploy.
D- Applications in the Foundation layer can reference Applications in the End-user layer.

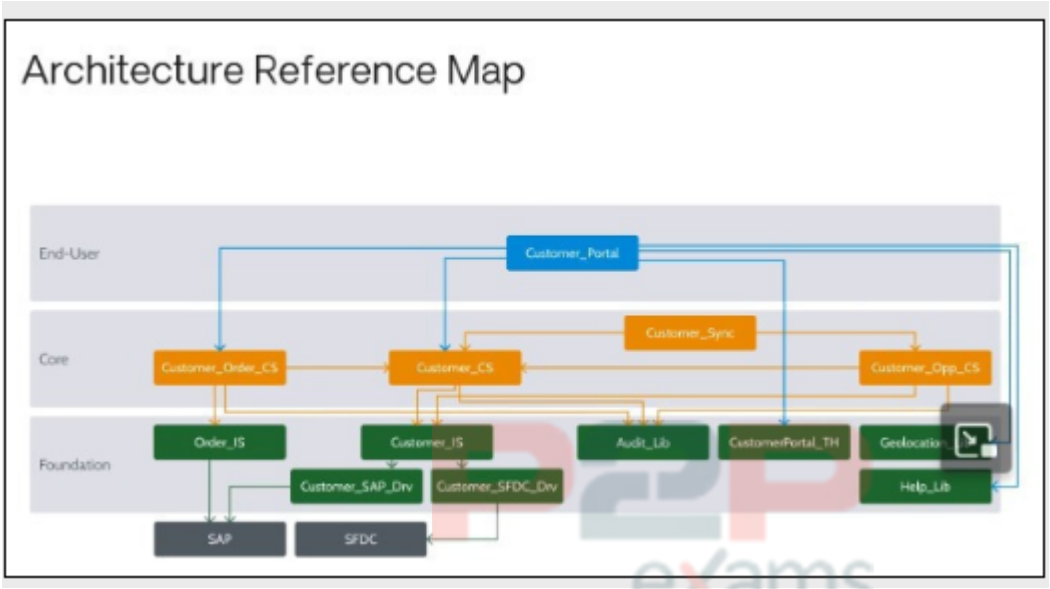
Answer:

A

Question 11

Question Type: MultipleChoice

What is the Architecture Blueprint?



Options:

A- Is the end result of Architecture Design Process. At this point you should add dependencies between the Modules.
B- Above is the answer

Answer:

A

Question 12

Question Type: MultipleChoice

What is NOT a best practice for Mobile Application Architecture: Local Storage?

Options:

A- Adopt the correct sync frequency: Either at process start and online or at process/transaction end and online
B- Sync on every screen or online event
C- Sync data required per use case: Sync summary data on Session start. On data selection, sync p its details.
Example: if you are accessing Purchasing data, sync the summary data on Session start. On selecting the Purchasing item, sync the details of the Purchasing item such as photos or price, a

Answer:

B

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