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Adobe Experience Manager Developer Exam

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QUESTION 1

An AEM application development team is assigned a task to create an Event-Driven Data Layer implementation for an Analytics solution. Which Adobe recommended best practice should the developer choose?

- A. Use Adobe Experience Platform's data layer to integrate with AEM.
- B. Create a custom data layer and add each component template, and its properties to the data layer
- C. Use Adobe Client Data Layer and integrate with Core components.
- D. Create an Adobe Cloud Service configuration to use third-party tool's data layer.

Correct Answer: C

Adobe Client Data Layer is a JavaScript library that provides a standardized way to collect, structure, and manage data on a web page. It can be used to implement an event-driven data layer for analytics solutions. It integrates with Core components and allows authors to configure data layer properties for each component. It also supports custom events and data sources. References: <https://experienceleague.adobe.com/docs/experience-manager-core-components/using/developing/data-layer.html?lang=en><https://github.com/adobe/adobe-client-data-layer>

QUESTION 2

SPA components are connected to AEM components via the MapTo() method.

Which code should be used to correctly connect an SPA component called ItemList to its AEM equivalent?

- A. ('project/components/content/itemList').MapTo(ItemList,ItemListEditConfig);
- B. MapTo('project/components/content/itemList')(ItemList,ItemListEditConfig);
- C. ItemList.MapTo('project/components/content/itemList');
- D. MapTo(ItemList)('project/components/content/itemList',ItemListEditConfig);

Correct Answer: B

<https://experienceleague.adobe.com/docs/experience-manager-learn/getting-started-with-aem-headless/spa-editor/react/map-components.html?lang=en>

QUESTION 3

An AEM application wants to set up multi-tenancy using Adobe-recommended best practices and bind multiple configurations to it. Which of the following options is recommended?

- A. import org.apache.felix.scr.annotations.Component; @Component(label = "My configuration", metatype = true, factory= true)
- B. import org.osgi.service.component.annotations.Component; @Component(service = ConfigurationFactory.class)
- C. import org.osgi.service.metatype.annotations.AttributeDefinition; import

org.osgi.service.metatype.annotations.ObjectClassDefinition; @ObjectClassDefinition(name = "My configuration")

D. @Component(service = ConfigurationFactory.class) @Designate(ocd = ConfigurationFactoryImpl.Config.class, factory=true)

Correct Answer: D

Explanation: The @Component(service = ConfigurationFactory.class) @Designate(ocd = ConfigurationFactoryImpl.Config.class, factory=true) option is recommended for creating a multi-tenancy configuration and binding multiple configurations to it. This option uses the OSGi R6 annotations to define a component that provides a service of type ConfigurationFactory and designates a class that contains the configuration properties. The factory=true attribute indicates that multiple configurations can be created for this component.

References:<https://experienceleague.adobe.com/docs/experience-manager-65/deploying/configuring/osgi-configuration-settings.html?lang=en#creating-factory-configurations>

QUESTION 4

A custom component has one dialog field:

-> Title

-fieldLabel = Title

-sling:resourceType = granite/ui/components/coral/foundation/form/textfield

-name = ./title

The developer needs to implement a Sling Model to perform a business logic on the authored value. The developer writes the following HTL snippet.

```
<sly data-sly-use.display="com.adobe.aem.guides.certification.core.models.HelloWorldModelImpl">
  <h1>${display.messageText}</h1>
</sly>
```

Which two implementations will support this HTL snippet? (Choose two.)

▣ A. @Model(adaptables = Resource.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)

```
public class HelloWorldModelImpl {
```

```
@ScriptVariable
```

```
private String authoredVal;
```

```
private String messageText;
```

```
@PostConstruct
public void init() {
    if (StringUtils.isNotBlank(authoredVal)) {
        setMessageText(StringUtils.join("Welcome", StringUtils.SPACE, authoredVal));
    }
}

public void setMessageText(String messageText) {
    this.messageText = messageText;
}

public String getMessageText() {
    return messageText;
}
```

```
}
```

■ B.

```
public void init() {
    if (StringUtils.isNotBlank(title)) {
        setMessageText(StringUtils.join("Welcome", StringUtils.SPACE, title));
    }
}

public void setMessageText(String messageText) {
    this.messageText = messageText;
}

public String getMessageText() {
    return messageText;
}
}
```

```
@Model(adaptables = SlingHttpServletRequest.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)
public class HelloWorldModelImpl {
    @Inject
    @Via("resource")
    private String title;
    private String messageText;
}
```

■ C.

```
@PostConstruct
public void init() {
    if (StringUtils.isNotBlank(title)) {
        setMessageText(StringUtils.join("Welcome", StringUtils.SPACE, title));
    }
}

public void setMessageText(String messageText) {
    this.messageText = messageText;
}

public String getMessageText() {
}
```

```
@Model(adaptables = Resource.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)
public class HelloWorldModelImpl {
    @ValueMapValue
    @Named("title")
    private String authoredVal;
    private String messageText;
}
```

■ D.

```
@PostConstruct
public void init() {
    if (StringUtils.isNotBlank(title)) {
        setMessageText(StringUtils.join("Welcome", StringUtils.SPACE, title));
    }
}

public void setMessageText(String messageText) {
    this.messageText = messageText;
}

public String getMessageText() {
    return messageText;
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: BD

Explanation: Option B and Option D are two implementations that will support the HTL snippet. Option B uses the @Model annotation with the adaptables parameter set to Resource.class. This allows the Sling Model to adapt from a resource object and access its properties using the ValueMap interface. Option B also uses the @Inject annotation with the name parameter set to ".text" to inject the value of the text property into the text field. Option D uses the @Model annotation with the defaultInjectionStrategy parameter set to OPTIONAL. This allows the Sling Model to use optional injection for all fields and avoid null pointer exceptions if a property is missing. Option D also uses the @Inject annotation without any parameters to inject the value of the text property into the text field, using the field name as the default property name. References:

<https://sling.apache.org/documentation/bundles/models.html><https://experienceleague.adobe.com/docs/experience-manager-htl/using-htl/htl-block-statements.html?lang=en#use>

QUESTION 5

Which Maven plugin checks if all the requirements declarations made in OSGi bundles are satisfied by the capabilities declarations of other bundles included in the Maven project?

- A. maven-enforcer-plugin
- B. femaven-assembly-plugin
- C. content-package-maven-plugin
- D. aemanalyser-maven-plugin

Correct Answer: D

Explanation: The aemanalyser-maven-plugin is a Maven plugin that checks if all the requirements declarations made in OSGi bundles are satisfied by the capabilities declarations of other bundles included in the Maven project. This plugin ensures that the OSGi bundles are consistent and can be resolved at runtime. The plugin also checks for other issues such as API compatibility, package versioning, and bundle start order. References:

<https://experienceleague.adobe.com/docs/experience-manager-cloud-service/implementing/developing/aem-project-content-package-structure.html?lang=en#build-analyzer-maven-plugin><https://github.com/adobe/aemanalysermaven-plugin>