What is the purpose of the core module in AEM?

Ans: Core module defines the business logic, model, servlets. It supports other modules present inside an AEM project.

What kind of files and code can be found in the core folder?

Ans: core folder contains pom.xml file and servlets, utility classes,meta-inf, osgi-inf, servlets etc,.

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Explain the role of ui.apps in AEM projects.

Ans: ui.apps contains components like htl scripts, js and css; templates,config files.

How are components structured in the ui.apps folder?

Ans:

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**Hello World Component:**

* Where is the Hello World component located in both core and ui.apps?

In core:

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In ui.apps:

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* Explain the Java class (in core) for the Hello World component.

Ans: Java class is a sling model. It retrieves a message property from component’s configuration

* How does the HTL script work in ui.apps for Hello World?

Ans: It works by fetching the message from sling model and displays it.

* How are properties and dialogs defined for this component?

Ans:

Properties are stored in .content.xml inside “helloworld” folder. It defines components settings.Dialogs allows author to configure the component (\_cq\_dialog.xml)

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What are the different types of AEM modules (core, ui.apps, ui.content, etc.)?

Ans:

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How does Maven build these modules?

Ans: Maven build these modules by compiling java code, package modules and others as a deployable zip file.

Explain the build lifecycle of Maven in the context of AEM.

Ans:

clean – allows us to remove the previous files or builds. that’s why “clean install” is done so that we install it from scratch, which ensures that unwanted files are not present.

validate- validates all the files present

compile- compiles the java code in core module

test- runs unit tests

deploy- deploys packages to AEM.

How are dependencies managed in pom.xml?

Ans: dependencies are managed under <dependency> tag inside the pom.xml which ensure that the project uses correct aem APIs.

Why is Maven used instead of other build tools?

Ans: AEM requires maven inorder to run the components. Maven provides dependency management using pom.xml

What advantages does Maven offer for AEM development?

Ans: automated package deployment and handling dependencies are the most beneficial advantages of maven.

How does Maven help in managing dependencies and plugins in AEM projects?

Ans: it provides and manages plugins, profiles and dependencies

What does mvn clean install do in an AEM project?

Ans: it cleans the old codes and other files present inside the project folder and installs the package newly.

How to deploy packages directly to AEM using Maven commands?

Ans: we can deploy packages directly using the command “mvn clean install -PautoInstallPackage -Dmaven.test.skip=true”

Explain the purpose of different Maven profiles in AEM (autoInstallPackage, autoInstallBundle).

Ans: autoInstallPackage installs the whole package in aem and autoInstallBundle installs only the core osgi bundle.

What is the purpose of dumplibs in AEM?

Ans: it helps the to debug the client libraries such as css and js and their dependencies.

How can you view client libraries using dumplibs?

Ans: by using url <http://localhost:4502/libs/granite/ui/content/dumplibs.html> , we can view client libraries.

Explain how client libraries are structured in AEM.

Ans: it is present under ui.apps

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