

AEM 6 TRAINING

1) Introduction to AEM

- Why AEM – Advantages over other CMS and CMS concepts
- Versions
- Technology stack
- Features

2) Installation and deployment

- Installing the jar and understanding the folder structure of the installation
- Login to AEM
- Developer mode, touch UI and Classic UI
- Touch optimized UI
- DAM console

3) OSGI framework

- clustering
- OSGI framework
- OSGI bundles
- OSGI console

4) JCR

- JCR structure
- Content services of the JCR
- Apache jackrabbit
- Repository structure
- OAK architecture (OAK versus CRX)

5) Web framework with SLING rest and SIGHTLY.

- REST
- Apache sling
- Content resolution
- Scripting framework.
- Sightly framework.

6)Advanced authoring framework and creating a website

- Structure you website
- Create template
- Create page rendering
- Create page
- Modify page rendering
- Displaying basic content using JSP and API's.

7)Creating complex components

- Logo
- Search component
- Top navigation component
- Dynamic grid

8) AEM workflows

- overview of the main workflow objects
- Model steps transition
- Workitem
- Payload
- Workflow console and starting a workflow

9) Developing mobile websites and responsive design

- Responsive design
- Pros and cons of responsive design
- WURFL and emulators

10) Publish example

- Demonstrate how a content is published
- How to debug the publish and parameters.

11) Development models for the developing teams

- Maven
- The Maven POM
- POM relationship
- Snapshot versions
- Installing Maven and setting up a new project
- VLT
- Mapping CRX to file system
- Installing eclipse for development

12) OSGi components and annotations

- Service registry model and dynamic service lookup.
- OSGI bundles, services and components
- @component
- @activate, @deactivate and @modified, @service, @reference

13) Sling resources, rest, Servlets

- Default GET servlet
- Resource resolver
- Mappings for resource resolution

- .adaptTo Use cases.
- Servlets

14)Sling Events

- Listening to OSGI events
- Job events
- Event handling
- Trigger a replication logger

15)Sling scheduling

- OSGI service fired by quartz
- Scheduling at periodic times
- Quartz trigger and programmatically scheduling jobs

16)JCR content modelling indexing and search

- David's content model
- Batch processing
- Microkernels
- Search basics
- Repository internals
- Blob store and data store

17)JCR versioning and observation

- Observation
- Event model
- Adding an event listener
- Observation manager
- Identifier
- Node type

- Event topics used on AEM level.

18) User groups and permissions

- Permissions and ACL's
- Actions
- Access control lists and how they are evaluated.
- Concurrency permission ACL's.

19) Testing (Sling and maven)

- unit test using Junit and maven.
- Easy Mock
- Powermock

20) Deployment and packaging

- Considerations
- How to create the config package
- Runmodes, setting run modes and configuration for different run modes.

21) Dispatcher and reverse replication

- Cache invalidation
- Dispatcher role in projects for better performance
- Reverse replication
- What to cache
- Rules section
- Filter section

22) Content migration and periodic importers

- Custom periodic importers
- Example code and alternative approaches

23)Client libraries

- Why use client libraries
- Manage client libraries
- Planning and creation of client libraries

24)Content migration strategies

- VLT based
- Curl scripts
- Upgrading to AEM 6.0