

# **AEM SYLLABUS FOR FORERUN SOFTWARE SOLUTIONS**

## **Module 1: Installation and Browsing the application**

- ❖ Installation of JDK
- ❖ Difference between JRE and JDK
- ❖ Configuration of environment variables
- ❖ Browse Application /Browse different consoles
- ❖ Authoring (Edit title component) and publishing the changes
- ❖ Understanding properties and page properties

## **Module 2: Components**

- ❖ Component - Definition
- ❖ Creating a basic Component
- ❖ Dialog creation
- ❖ Dialog Validation
- ❖ Edit Config
- ❖ Drag and Drop Image
- ❖ Inline Text editor
- ❖ Exploring text field, path field and dropdown in the dialog
- ❖ Sling Content Resolution
- ❖ Component scripts
- ❖ Core components and foundation components
- ❖ Internationalization
- ❖ Analyzing Text component
- ❖ Adding plug-in to text component
- ❖ Analyzing Responsive grid component

## **Module 3: Slightly**

- ❖ Introduction
- ❖ Usage of Slightly tags
- ❖ Interview discussion

## **Module 4: Components – Page Structure**

- ❖ Structuring of page with header, footer and other basic components
- ❖ Page properties dialog
- ❖ Responsive grid

## **Module 5: Static Templates**

- ❖ Templates – Introduction
- ❖ Relation between page component and templates
- ❖ Allowing templates to create pages under particular hierarchy

## **Module 6: Client Libraries**

- ❖ Introduction
- ❖ Creation of client library folder
- ❖ Understanding of embed, dependency and categories
- ❖ Organizing the JS, CSS and icons client libraries efficiently and debugging
- ❖ Scenario based interview questions

## **Module 7: Multi Module Maven Project Creation**

- ❖ Maven Introduction and Installation
- ❖ Analyzing project structure
- ❖ Dependency Management in maven
- ❖ Building project using maven
- ❖ Debugging issues
- ❖ Interview discussion

## **Module 8: Bundles and OSGI Components**

- ❖ Bundle Introduction and life cycle
- ❖ Creation of OSGI components and services
- ❖ Consuming a service from another component
- ❖ Annotations and attributes of components
- ❖ OSGI configuration – R6 annotations

- ❖ Interview discussion

## **Module 9: Dynamic Templates**

- ❖ Introduction
- ❖ Template Type and Template Authors
- ❖ Creation of Editable template using Empty Page Template type
- ❖ Creation of page component and custom Empty Page template type
- ❖ Structure. Initial content and Policies
- ❖ Page policy (Template Level Policy) and component policy
- ❖ Lock/Unlock components
- ❖ Enable Editable Templates to create pages
- ❖ Debugging issues
- ❖ Interview discussion

## **Module 10: Experience Fragments**

- ❖ Introduction
- ❖ Creation of Experience fragments
- ❖ Creating variations in experience fragments
- ❖ Referring the experience fragments from page
- ❖ Interview discussion

## **Module 11: Content Fragments**

- ❖ Introduction
- ❖ Configuration browser
- ❖ Creation of content fragment model
- ❖ Creating variations in content fragments
- ❖ Create versions in content fragments and Compare versions
- ❖ Access content fragment using JSON exporter
- ❖ Difference between content fragments and experience fragments
- ❖ Interview discussion

## **Module 12: Sling Model**

- ❖ Sling Model – Introduction
- ❖ Usage of sling model annotations
- ❖ Usage Slightly to call sling model
- ❖ Implementing business logic in sling model
- ❖ Interview discussion

## **Module 13: WCM Use API and Slightly**

- ❖ Introduction
- ❖ Activate method
- ❖ Calling method using slightly
- ❖ Interview Questions

## **Module 14: Sling Servlet**

- ❖ Introduction
- ❖ Path based and Resource based servlet
- ❖ Annotations specific to servlets
- ❖ Read request parameters and implementing business logic
- ❖ Create response like JSON
- ❖ Interview Questions

## **Module 15: Sling API and JCR API**

- ❖ Introduction and Difference
- ❖ Creation of pages in JAVA code using Page Manager API
- ❖ Creation of assets in DAM using Asset Manager API
- ❖ Handling tags using Tag Manager API
- ❖ Interview Questions

## **Module 16: Query builder**

- ❖ Introduction to Query
- ❖ Creation of full text queries
- ❖ Understanding of Query builder Service
- ❖ Executing the Queries

- ❖ Iterating over the results
- ❖ Debugging Queries
- ❖ Interview Questions

## **Module 17: JCR SQL2 Queries**

- ❖ Introduction to Query
- ❖ Creation of AQL2 Queries
- ❖ Debugging Queries
- ❖ Interview Questions

## **Module 18: E-Mail**

- ❖ Configuring Mail Gateway
- ❖ Creating Mail Template
- ❖ Adding Subject, Address and Body Content to the mail
- ❖ Adding Attachment to the mail
- ❖ Sending Mail using Message Gateway Service
- ❖ Debugging Mail issues
- ❖ Interview questions

## **Module 19: Event Handlers and JCR event Listeners**

- ❖ Introduction
- ❖ Difference between Sling Event Handling and JCR Event Listeners
- ❖ Annotations specific to Event Handlers and JCR event Listeners
- ❖ Creation of Sling Event Handling OSGi service
- ❖ Creation of JCR event Listeners OSGi service
- ❖ Debugging issues
- ❖ Interview questions

## **Module 20: Replication**

- ❖ C Replication - Introduction
- ❖ Configure Replication Agents

- ❖ Practice replication of pages
- ❖ Practice Replication of Assets
- ❖ Creating Replication OSGI Service
- ❖ Replication through JAVA code using replicator API
- ❖ Handling issues during replication - Debugging
- ❖ Bulk Activation
- ❖ Package Replication
- ❖ Interview Questions on replication

## **Module 21: Workflow**

- ❖ Introduction of Workflow Model
- ❖ Walkthrough of Available Workflow models
- ❖ Creation of Custom Workflow Model
- ❖ Custom Participant Step creation
- ❖ Custom Process Step Creation
- ❖ Annotations specific to workflow models
- ❖ Executing custom workflow models
- ❖ Dialog Participant Step
- ❖ Debugging workflow models
- ❖ Interview Questions on workflow models

## **Module 22: Scheduler**

- ❖ Introduction
- ❖ Runnable/Job Class - Explanation and Hands-on
- ❖ Annotations specific to Scheduler
- ❖ Interview Questions on Scheduler