Liferay 7.1 Front-end Developer Exam Outline

Liferay 7.1 : Front-end Development 25%

When approaching the development of your application's front-end, Liferay Portal offers a wide range of tools, frameworks, utilities, and mechanisms to make your life easier.

Front-end Development

JavaScript in Liferay Portal
- Metal JS
- Senna.js
- Liferay AMD Module Loader
- AlloyUI
Lexicon & Clay
Soy & JSX
Npm SDK

Liferay 7.1 : Building Layouts Templates 20%

Layout templates allow you to set the rows and columns of a page and determine where content can be placed.

Building Layouts Templates

Layout Templates with the Liferay Theme Generator
Creating Layout Templates Manually
Embedding Portlets in Layouts Templates
A Liferay Theme is the overall look and feel for a site. Themes are a combination of CSS, JavaScript, HTML, and FreeMarker templates.

**Building Themes**
- Liferay Theme Generator
- Theme Development
- Theme Settings
- Color Scheme
- Themelets
- Importing Resources with a Theme
- Theme Contributors
- Context Contributors
- Portlet Decorators
- Embedding Portlets in Themes
- Clay CSS and Themes

**Upgrading Themes**
In prior versions of Liferay Portal, Velocity templates (.vm files) were the default template language for writing theme markup. But Velocity had limitations. Since Liferay Portal CE 7.0, Freemarker templates (.ftl files) are the default template language, and Velocity templates are deprecated.
Liferay 7.1: Front-End Taglibs

Liferay Portal offers a powerful set of taglibs that are fully maintained and integrated. They provide common implementations for UI components and utilities to ensure that your app behaves in a very clean and efficient way.

Front-End Taglibs
Liferay UI Taglib
Clay Taglib

Liferay 7.1: Customizing with Templates

There are a number of resources on the platform where you can use templates for styling.

Customizing the Front-end
Web Content Templates
Workflow Templates
Application Display Templates