



# Liferay Boot Camp 2021 Digital Edition

## Going headless without losing your OpenAPI



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# Sommario presentazione



OpenAPI Concepts



Liferay Specifications



An Example



Q & A

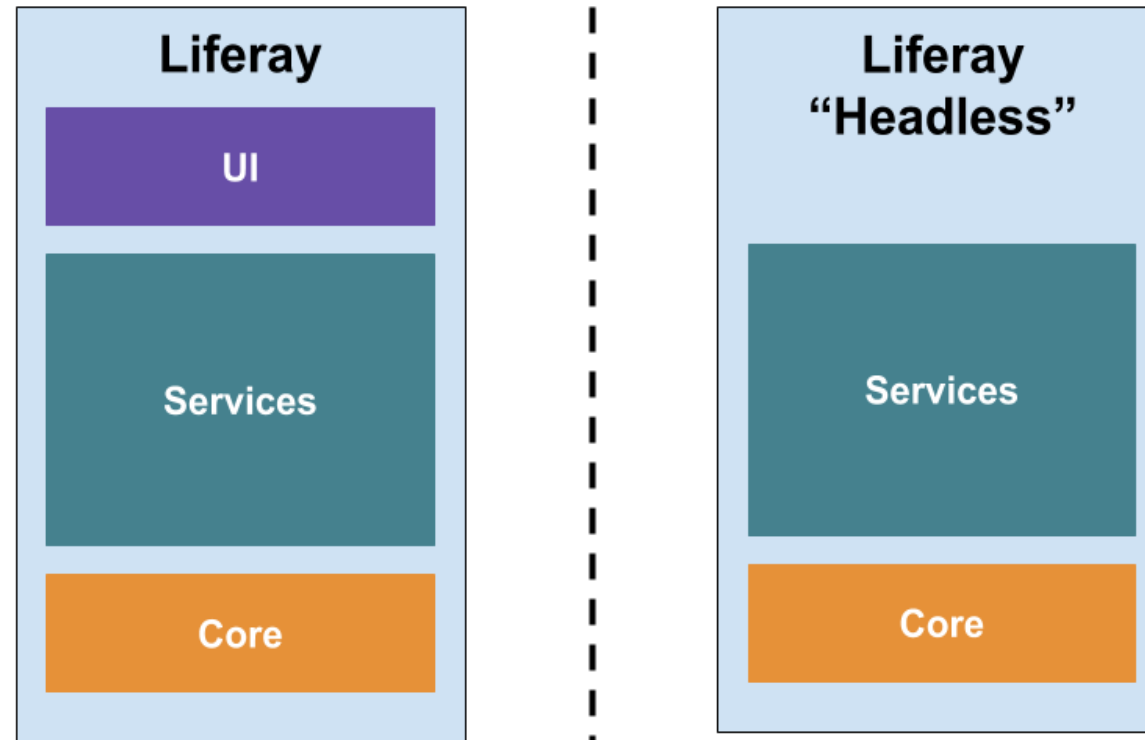


# OpenAPI Concepts





# Liferay DXP Headless Platform





# Liferay Ways to go Headless

Service Builder REST services

GraphQL API

OpenAPI Initiative



# OpenAPI Initiative

«the OAI is focused on  
**creating,**  
**evolving** and  
**promoting**  
a **vendor neutral**  
description format»

OpenAPI Manifesto



# OpenAPI Initiative

Linux Foundation and Smart Bear

<https://www.openapis.org/>

OpenAPI Specification

<https://spec.openapis.org/>



# Liferay joined OpenAPI Initiative

Liferay joined on 26th February 2020

What means?

Documentation

Guidelines



# Liferay Specifications

Find your API





# Liferay API

## Liferay Profiles

Delivering content (delivery APIs)

Managing and administering content (admin APIs)

<https://help.liferay.com/hc/en-us/articles/360031163611-OpenAPI-Profiles>



# Headless Delivery API

## API

BlogPosting

BlogPostingImage

Comment

ContentDocument

ContentSet

ContentStructure

Document

DocumentFolder

## Internal Model

BlogsEntry

DLFileEntry (associated with a BlogsEntry)

DiscussionComment

DLFileEntry (associated with a JournalArticle)

AssetListEntry

DDMStructure

DLFileEntry

Folder



# Headless Administration APIs

Headless Admin User

Headless Admin Taxonomy

Headless Admin Workflow

... and more to come



# Swagger Hub

<https://app.swaggerhub.com/search?owner=liferayinc>

The screenshot displays the Swagger Hub interface for the 'Headless Admin User' API. The interface is divided into several sections:

- Left Sidebar:** Contains navigation links for 'Info', 'Tags', 'Servers', and a search bar. Below these, there is a list of API endpoints under the 'default' tag, including GET requests for organizations, user accounts, and email addresses, as well as PUT and PATCH requests for user accounts.
- Central Editor:** Shows the OpenAPI 3.0.1 definition in a code editor. The definition includes an 'info' section with title, description, artifact ID, and license, and a 'servers' section with a URL. The 'paths' section defines the API endpoints and their associated operations.
- Right Panel:** Provides a visual overview of the API. It includes the title 'Headless Admin User', version 'v1.0', and a description. Below this, there is a 'Servers' dropdown menu and a section for the 'EmailAddress' endpoint, showing its GET method and path.

At the bottom of the interface, a red status bar indicates 'Last Saved: 10:45:21 pm - May 21, 2020' and shows '2' errors.



# Running Liferay

`http://localhost:8080/o/api`

Advantage: it matches your running version

Disadvantage: you cannot link it, e.g., in an email

P.S. log on the portal before.



# Java Client

## Headless Admin User

v1.0 OAS3

A Java client JAR is available for use with the group ID 'com.liferay', artifact ID 'com.liferay.headless.admin.user.client', and version '2.0.1'.

[Apache 2.0](#)

# An Example

Headless Admin User







# Headless Admin User

<http://localhost:8080/o/headless-admin-user/v1.0/openapi.json>

Let's go live ...



# Q&A



Contatti

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**Live Long and Prosper**