




Liferay Strategy

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What is Liferay?



Liferay is a platform to build Custom Solutions

Cost of Solution

Develop and Maintenance

- **Develop:** Customize and Extend Liferay
- **Upgrades:** upgrade to use latest functionalities
- **Security:** Keep you application secure

Liferay's Old Annual Releases



Agility: Moving Faster

Faster Time to Innovation




Weekly Release Cycles

Focus on quality and iterative value, close support for clients moving to our cloud and new modular architecture

Better Upgrade

Easy as a docker image switch



The complexity of **updating** a Liferay solution is directly proportional to the number of **customizations**.




Paradox

One of the most valuable **advantages** of our technology, which is being able to customize any part of the product, has become the biggest **problem**



How can we **automate** upgrades if our users are able to **customize** the core of the platform itself?



A platform to create **Custom Solutions**, without compromising **maintainability**, simplify **upgrades** and release **new features** on a weekly basis

Same Goals, New Technologies

Technologies that Compromised	Underlying Custom Solution Use Case
<ul style="list-style-type: none">● Widgets (Portlets)● Liferay Themes● Liferay Service Builder/REST Builder● JSP overrides, Liferay Hooks, service wrappers	<ul style="list-style-type: none">● Model business processes to digitize business operations● Design an experience that represents my brand guidelines● Model data objects and relationships to represent unique business needs● Customize out of the box components that don't meet my expectations



How do we make it possible?

Fundamental **mindset shift** on **how to achieve Custom Solutions**

Old Liferay

Easily make **direct changes**
to Liferay **using code**



New Liferay

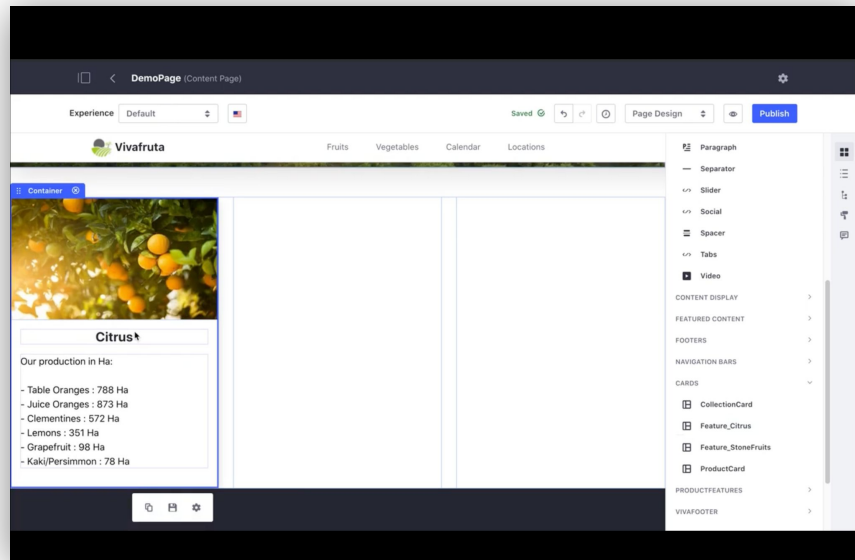
- Don't touch Liferay DXP's **core**
- Use **as little code as possible**
- When custom code is needed:
clean isolation



Low Code

Low Code

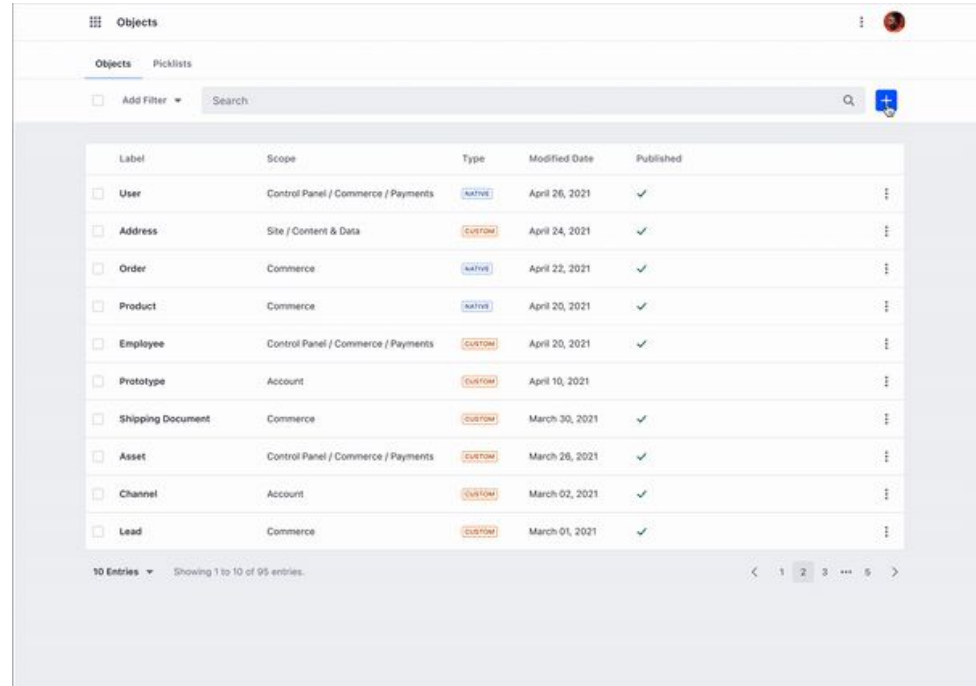
Started with **Content Pages**, a way for business users & designers to create static content-driven pages.



Low Code

Liferay Custom Objects allows non-developers to easily create business objects w/o code

- Create custom data models
- Define relationships between one object and another object
- Various ways for admins, users to enter new object records
- Fully integrated with core DXP frameworks: Headless APIs, Workflow, Publications, Permissions, Blueprints, etc.



The screenshot displays the Liferay Custom Objects management interface. At the top, there's a header with a hamburger menu icon, the title 'Objects', and a user profile icon. Below the header, there are tabs for 'Objects' and 'Picklists'. A search bar with a magnifying glass icon and a plus sign is visible. The main content area is a table with the following columns: Label, Scope, Type, Modified Date, and Published. The table lists ten objects, each with a checkbox on the left and a vertical ellipsis on the right. The 'Type' column indicates whether an object is 'NATIVE' or 'CUSTOM'.

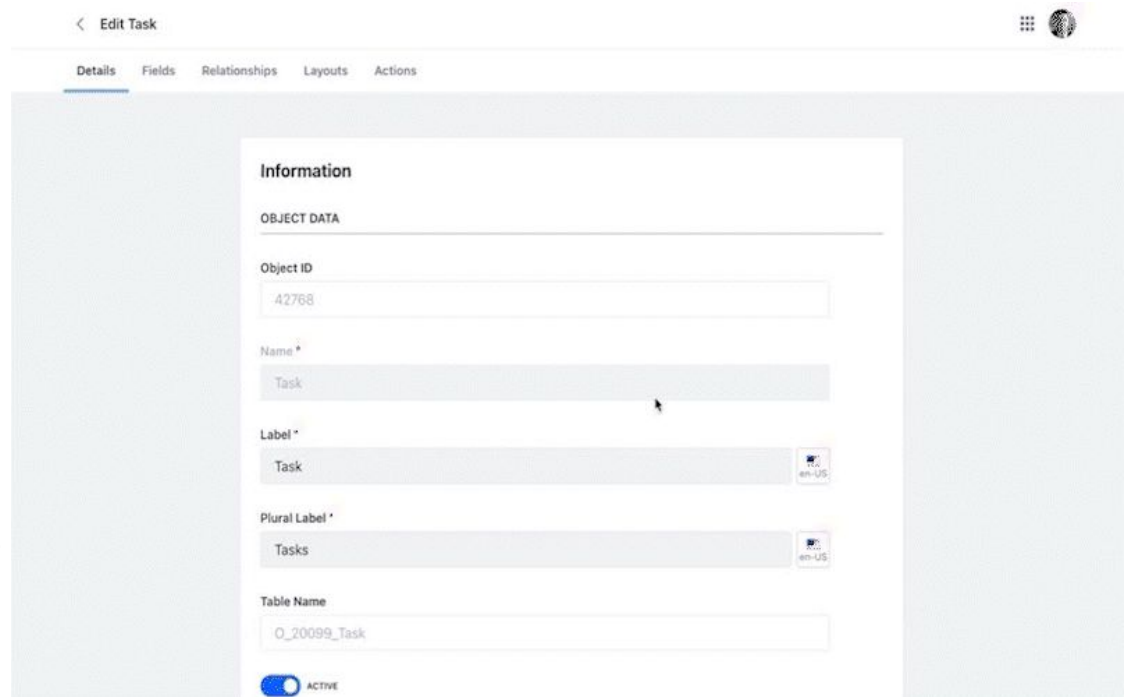
Label	Scope	Type	Modified Date	Published
<input type="checkbox"/> User	Control Panel / Commerce / Payments	NATIVE	April 26, 2021	✓
<input type="checkbox"/> Address	Site / Content & Data	CUSTOM	April 24, 2021	✓
<input type="checkbox"/> Order	Commerce	NATIVE	April 22, 2021	✓
<input type="checkbox"/> Product	Commerce	NATIVE	April 20, 2021	✓
<input type="checkbox"/> Employee	Control Panel / Commerce / Payments	CUSTOM	April 20, 2021	✓
<input type="checkbox"/> Prototype	Account	CUSTOM	April 10, 2021	
<input type="checkbox"/> Shipping Document	Commerce	CUSTOM	March 30, 2021	✓
<input type="checkbox"/> Asset	Control Panel / Commerce / Payments	CUSTOM	March 26, 2021	✓
<input type="checkbox"/> Channel	Account	CUSTOM	March 02, 2021	✓
<input type="checkbox"/> Lead	Commerce	CUSTOM	March 01, 2021	✓

At the bottom of the table, there is a footer indicating '10 Entries' and 'Showing 1 to 10 of 95 entries.' with pagination controls for pages 1, 2, 3, 4, 5, and 6.

Low Code

You can even assemble applications & experiences with custom objects

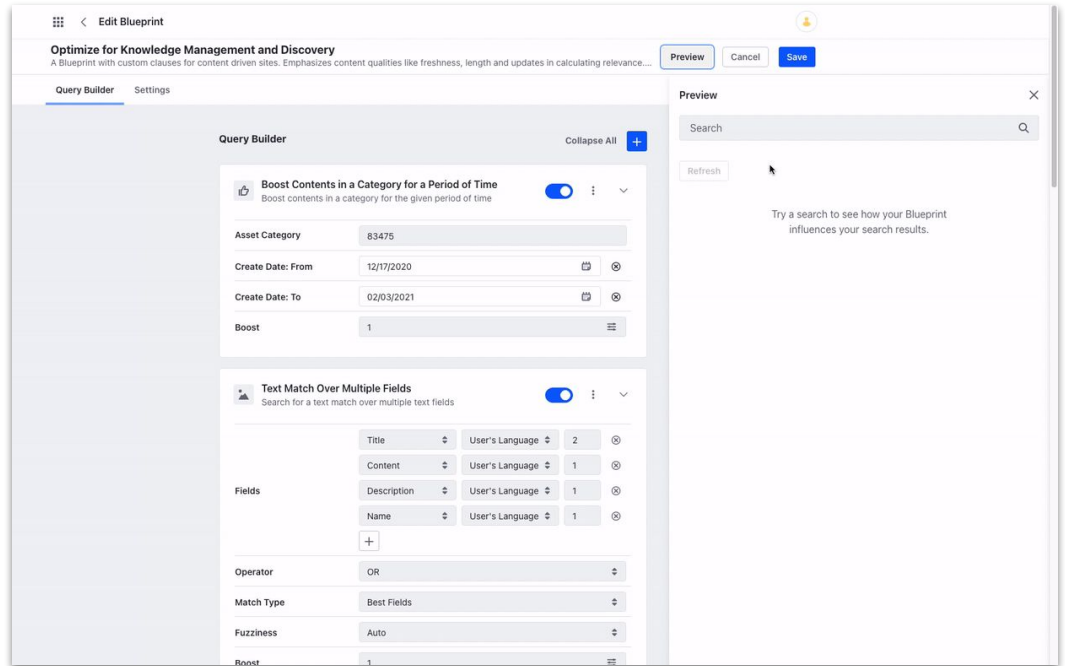
- Map objects to Forms to quickly develop UI for **data capture**
- Use Fragments and Display Page Templates to **present object data**
- **Attach any workflow** to any object
- **Add fields to Native Objects** and create Relationships with custom objects



Low Code

Create sophisticated custom search experiences with no-code

- Visual Query Builder to adjust search behaviour
- **Boost, filter, hide, and match** results on any indexed property
- Use context variables to **personalize search** based on role, segment, location, user profile information, etc.
- Apply **different blueprints** to each search page as required



Summary



Data Modeling

New field types, Validation, Custom Views, Extend Native Objects, “Proxy” Objects , Access Control, Relationships, “on-the-fly” headless APIs



Experience Management

Unified experience management, auto-populate custom object fields, widgets customization , composable product details



Discovery and Personalization

Promote and bury search results, Predictive search, Optimize product recommendation strategy and model



Process Automation

Triggered actions on data entry and changes, notifications, internal and external actions



Styling and Layout

No code styling and fragments, integration with design tools (Figma)



What Next?

Native Objects

Native Objects are legacy Service Builder modules and services that are able to interact with the Object Framework and leverage the new system to customize logic and extend the model and API itself.

Client Extension

A Client Extension is a new pattern that allow **developers** to add **new** capabilities and **override** native Liferay functionalities with **Javascript**.

- Fragments
- Remote Apps
- Global Javascripts (JS loaded at page level)
- Design Packs (CSS loaded at page level)
- Frontend Data Set Extensions
- New Data Renderer
- New Filters Types
- Application Pages Field types
- Dynamic Include App
- Templates

Application Pages

Application Page further enables content creators to create and define unique digital experiences.

It is an evolution of the existing Page Builder with new fragments providing CRUD capabilities for the Object Framework.

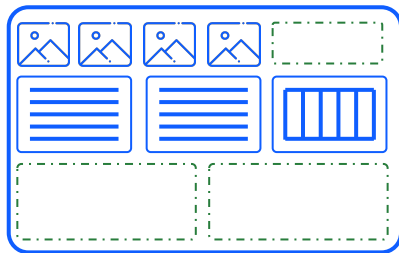
Content creators will be able to create pages to create, edit, or lists Objects and Native Objects.

Utility Pages

Utility Pages are specialized Applications pages that can define a new experience for certain use cases:

- Login page
- Forgot password
- My Workflow tasks
- Error Pages (404)
- User Registration
- My Profile Page
- Checkout

A Configuration First Approach



Low Code Solution

- Interfaces
- Custom Objects
- Configurations

Code Repository

- Versioning
- Deployment

Recap

I can model business processes to digitize your business operations with **Application/Utility pages** and **Remote Apps**.

I can design an experience that represents my brand guidelines with **Design Packs, Style Guides, and Global Libraries**.

I can model data objects and relationships to represent your unique business needs with **Objects**.

I can customize an out of the box component when it doesn't meet my expectations through **Configurations** and different **Client Extensions**



Thanks, QA Session