

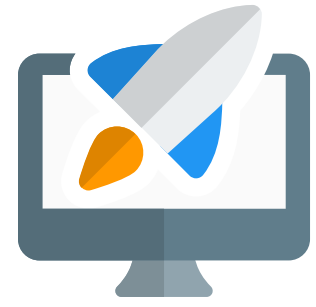
# Enterprise CMS portal for Telecom Company

It was a headless Portal that exposed REST API to support all operations of telecom mobile applications where huge traffic is expected.

## About client :

Client is serving 12 million individual customers with its mobile, fixed line, broadband internet and home services over its 4G LTE network. Client is a leading telecom provider in one of asian countries.





# BUSINESS REQUIREMENTS :

- ↳ The client wants to develop a headless server to serve the data to the mobile application.
- ↳ The solution should be capable of handling 500 concurrent requests normally and up to 2000 concurrent requests in peak hours.
- ↳ The solution should not allow authenticating content manager users outside private networks.
- ↳ Content publication on the portal should follow a predefined workflow.
- ↳ The production environment should be untouched. Content should be moved from the pre-production environment to the production environment automatically.
- ↳ CMS Should expose the content to the various clients using REST APIs.
- ↳ Platform should support multiple languages.
- ↳ Super admin should be able to do user management operations like deactivate users, password reset, change permissions associated with role, update user-role assignment.

## Quick Facts :

“ Industry:  
Telecom industry ”

## Benefits Delivered :

- “
- Increases Customer Satisfaction.
  - Quick and accessible communication.
  - Enable end-users to speak electronically and share hardware, software, and data resources.
  - Better performance even in peak hours
  - High availability
- ”



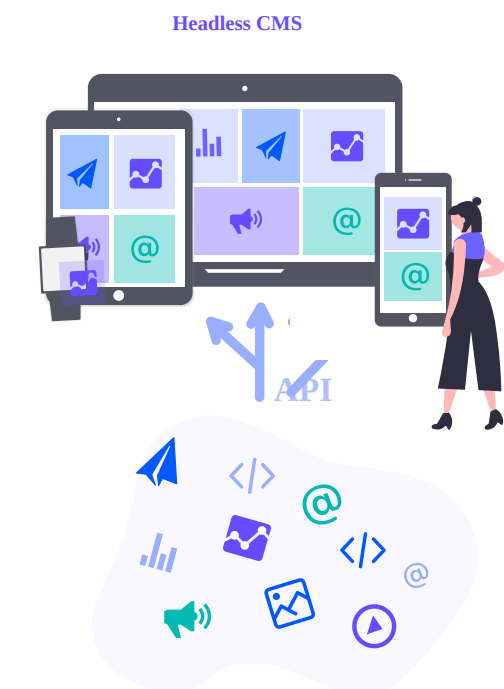
# KEY FEATURES :

- Liferay was proposed to be used as a headless server.
- To store the content on CMS, we leverage the OOTB features of the Liferay.
- A multi-level complex workflow was designed for content management.
  - Custom entities were following the same workflow.
- The remote staging feature was used to publish the content from the staging to the production environment.
- 12 different environments ( including non-prod and prod ) were set up and managed.
- 6 Liferay server nodes were used in a production environment.
  - Clustering was implemented in order to handle HA and DR.
- Excel upload feature was implemented to upload content in one go.
- Global search API was implemented for faster search in the mobile application.
- REST APIs were developed to expose the content to the mobile application and web application.
- ForgeRock was integrated with Liferay using OpenID to implement SSO.

“

I would recommend IGNEK to anyone - that is looking for excellent people to work with, quality work, and attention to detail that will give your project the best chance of success.

”





# SOLUTION/ TECHNOLOGY USES:

1

## Liferay DXP 7.4

- Expose the Content to the various channels.
- Developed custom entities, with workflow, Indexers.
- Configured OpenID for SSO with ForgeRock

2

## Elastic search

- Used for better performance
- CCR was implemented between 6 elastic search nodes.

3

## GraphQL Federation

Implemented graphql stitching of graphql schema exposed by Liferay.

4

## SMTP

Used to configure mail servers.

5

## ForgeRock

Used for Identity and access management and integrated with Liferay Portal

6

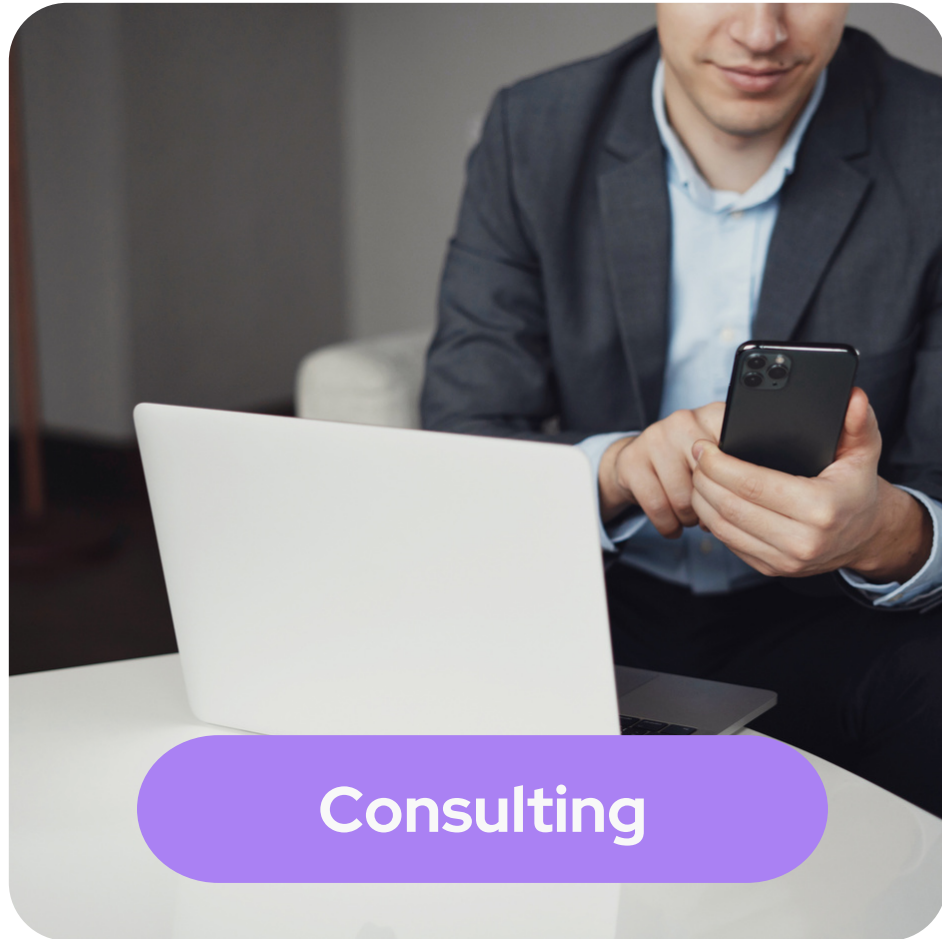
## Oracle RAC

Multi Node Oracle RAC was used as the database of the Liferay portal.

7

## REST APIs

Expose the content to the different channels



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## Address

C-1205, Ganesh Glory 11, Jagatpur Road,  
Gota, Ahmedabad, Gujarat, India.



## Telephone

(+91) 6351576580



## Email

[sales@ignek.com](mailto:sales@ignek.com)

Thank You