

# License Management in Healthcare App

## Introduction:

One of our clients from the Healthcare industry had a specific requirement to enhance their VR Healthcare Application. They wanted to implement a robust solution for content licensing and user license management. Determined to implement these features, the company sought the expertise of Mindfire, a renowned technology solutions provider. To meet the requirements, our team developed two distinct web applications: the Customer Portal and the Admin Portal.

The Customer Portal was designed to provide an intuitive platform for users to efficiently manage their licenses. Through this portal, customers can easily access and manage their VR rehab video licenses, granting them seamless and on-demand usage of the content.

In parallel, the Admin Portal was created to empower administrators with comprehensive oversight of the entire customer base and their respective licenses. This centralized view enables administrators to efficiently manage licenses, track usage patterns, and ensure compliance with licensing agreements.

To add further value to the solution, both portals were equipped with advanced analytics and reporting functionalities. Customers gain valuable insights into their license usage, allowing them to optimize their experience and track progress effectively. Simultaneously, administrators benefit from performance metrics, enabling them to assess the application's success, identify potential improvements, and make data-driven decisions to enhance user experiences.

Overall, the comprehensive solution not only streamlines the content licensing process but also provides valuable data-driven insights for both customers and administrators, enhancing the overall functionality and performance of the VR Healthcare Application.

## Client Details:

**Name:** Confidential | **Type:** Healthcare | **Location:** Australia

## Technologies:

Java, Spring Boot, ReactJS, Next.js, Microservices Architecture, REST, AWS, Jenkins, Strapi CMS, Stripe, Xero, SendGrid, PLSQL, MYSQL

## Project Description:

In this AWS-based architecture, the MySQL Database and PLSQL were utilized to store application data and CMS (Strapi) data, respectively, in a tabular format. To manage the docker images of applications, AWS Elastic Container Registry (ECR) was employed as a storage solution. The deployment of these docker images was accomplished using AWS Elastic Container Service (ECS) Fargate. To handle internet traffic from various domains and subdomains, different hosted zones were created using AWS Route53.

Additionally, AWS EC2 instances were leveraged for deploying Jenkins, facilitating continuous integration and continuous deployment processes. Overall, this interconnected setup ensured efficient storage, management, and

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deployment of applications and data, while also handling internet traffic effectively across various domains and subdomains.

To meet the client's specific needs for licensing VR App Rehab content, Mindfire developed two distinct web applications: the Customer/Public Portal and the Admin Portal.

## Customer Portal

- The Customer Portal was developed to serve end-users, streamlining the process of license acquisition and management. Signing up and logging in to the portal is a user-friendly experience for customers. Upon successful login they have the option to choose between postpaid and prepaid licenses.
- Upon successful license acquisition, customers can link their VR devices to their licenses using a token system. This tokenization connection allows them to access rehab videos in accordance with the terms and conditions of their license.
- To ensure secure and seamless transactions during license purchases, the portal seamlessly integrates with the Stripe payment gateway and invoices for each transaction are created in Xero for accounting.
- Flexibility is a key feature of the Customer Portal, which enables users to manage their licenses and VR devices effectively. Users can connect and disconnect headsets from licenses, transfer licenses to different accounts or headsets, and pause, upgrade, downgrade licenses for specific durations.
- Additionally, users can grant access to their licenses by adding other users to their accounts, assigning them specific roles and permissions.

## Admin Portal

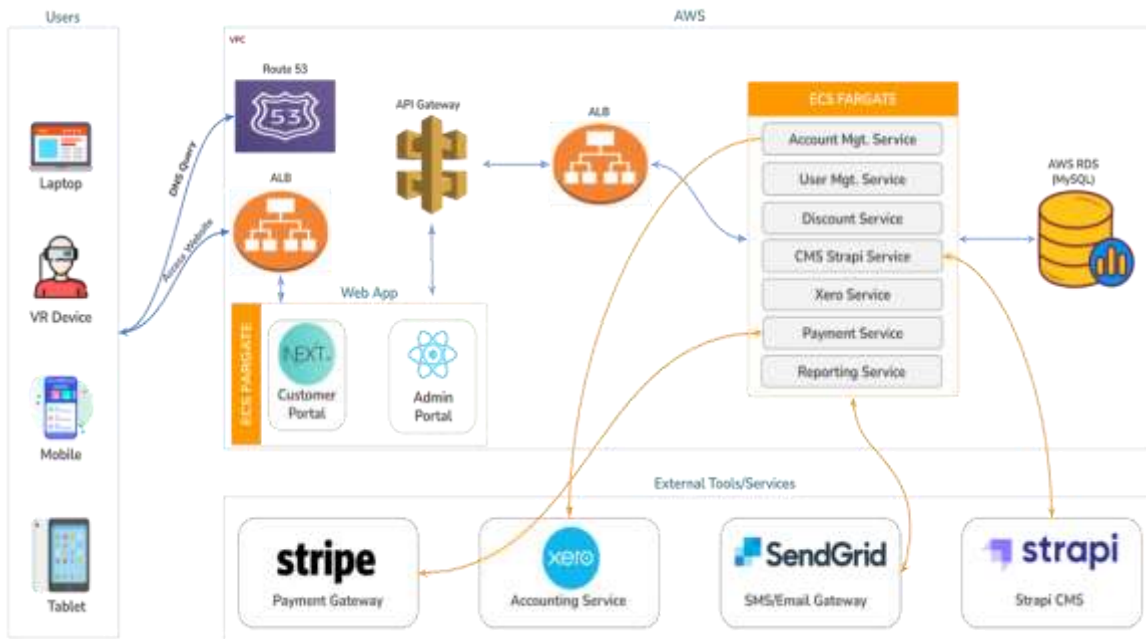
- The Admin Portal, on the other hand, provides administrators with powerful tools & reports to manage the entire licensing system. Admins can create and manage various license plans, tailor-made to cater different user needs and can create and apply discounts to specific accounts or licenses.
- The integration of a Content Management System (Strapi) allows administrators to create, manage, and deliver dynamic and up-to-date content into the Customer Portal.
- Administrators gain valuable insights about license usage through comprehensive module and account reports. These reports enable admins to understand how VR modules are used across different accounts and VR headsets. Furthermore, an account report provides a clear view of new account creations and churn rates, helping administrators make informed decisions about customer acquisition and retention strategies.
- The solution's versatility is evident through the support it offers to healthcare professionals and clinicians. Multiple locations can be added to a single account, enabling these professionals to track license usage with their patients efficiently.

## Conclusion

In conclusion, our web-based VR licensing and reporting solution successfully bridges the gap between users and administrators, empowering both with seamless access to VR rehab videos and comprehensive control over the licensing system. The integration of analytics and reporting features ensures informed decision-making, while the modular architecture facilitates easy scalability and future enhancements to meet evolving user needs.

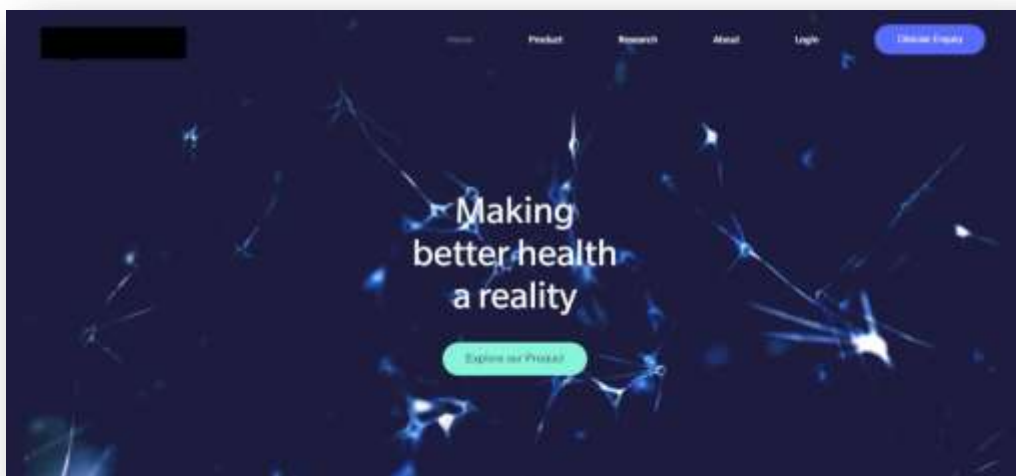
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## Architecture

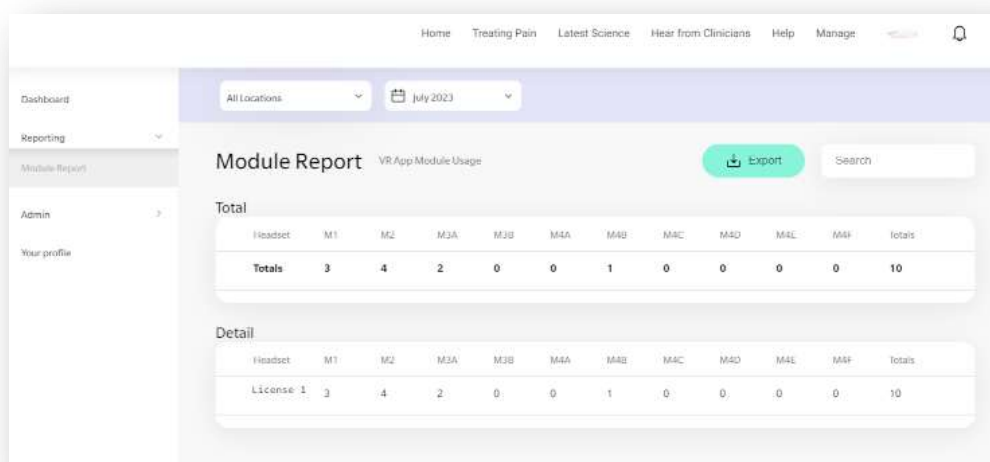
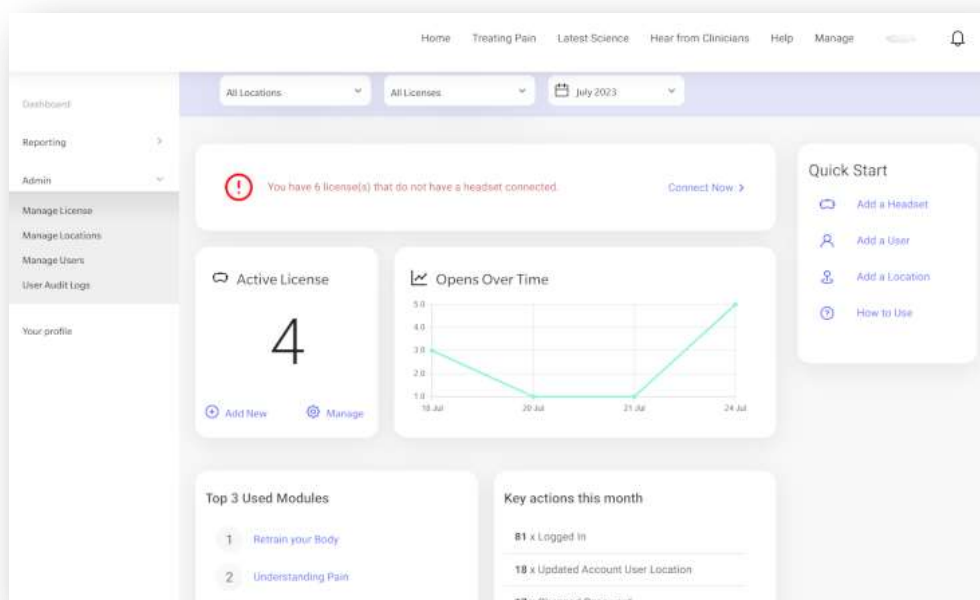


## Screenshots

Customer Portal



# License Management in Healthcare App



# License Management in Healthcare App

Home Treating Pain Latest Science Hear from Clinicians Help Manage

Dashboard

Reporting

Admin

Manage License

Manage Locations

Manage Users

User Audit Logs

Your profile

## Manage License

All Locations All Nick Names + Add New License Search

Nick Name	Current Location	Headset UID	License Usage	Last Used
License 2	This is a very ...	Connect Headset	0 Monthly Opens	03 Mar, 2023 Manage
Anant	This is a very ...	Connect Headset	0 Monthly Opens	14 Mar, 2023 Manage
This is a very v...	anant postpaid...	Connect Headset	0 Monthly Opens	09 Jun, 2023 Manage
License 1	anant postpaid...	1630731abe793e0d	10 Monthly Opens	18 Jul, 2023 Manage
N.A	Unassigned	Connect Headset	0 Monthly Opens	N/A Manage
N.A	Unassigned	Connect Headset	0 Monthly Opens	N/A Manage
N.A	Unassigned	Connect Headset	0 Monthly Opens	N/A Manage

Home Treating Pain Latest Science Hear from Clinicians Help Manage

Alerts

Active License

Opens Over Time

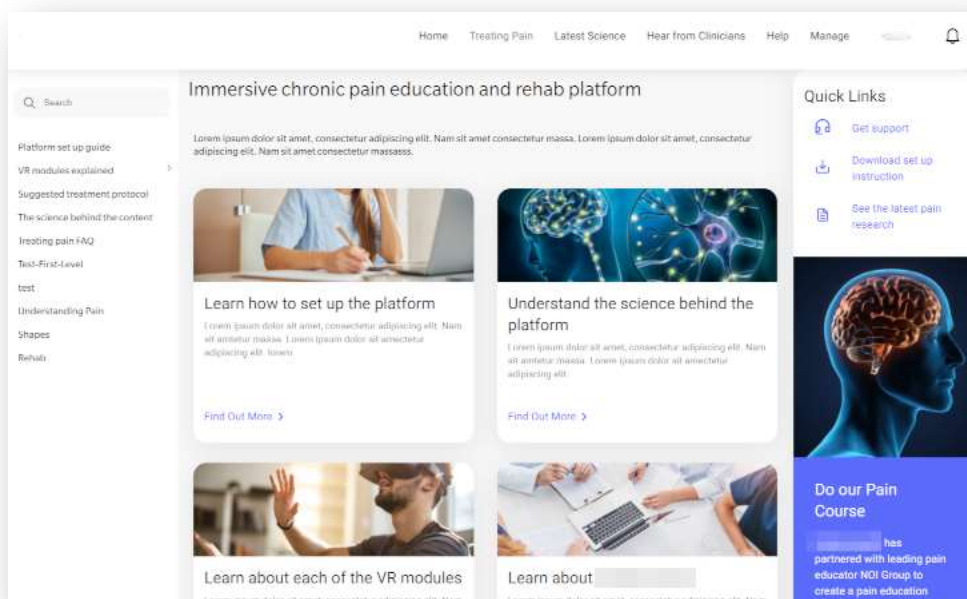
Top 3 Used Modules

Treating Pain

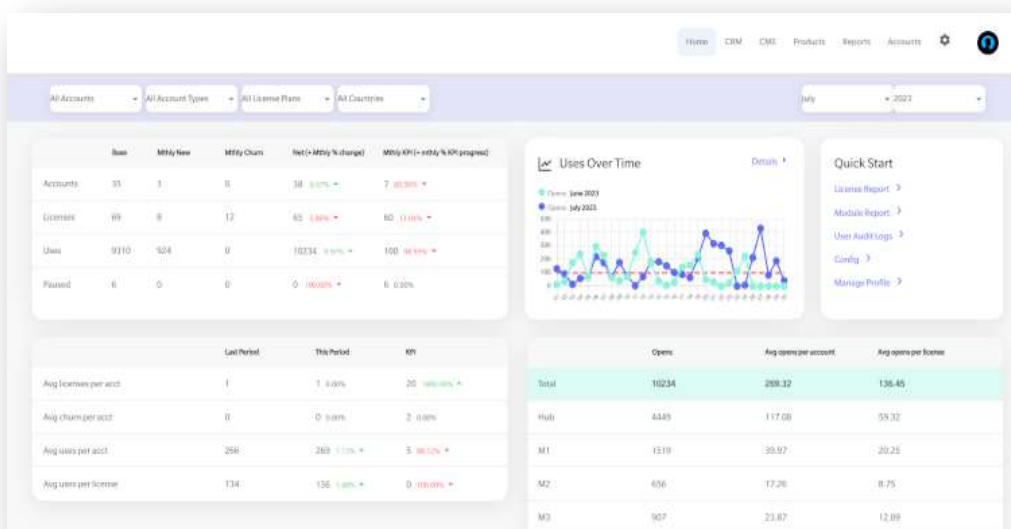
Learn from the Experts

Latest Science

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## Admin Portal



# License Management in Healthcare App

Home CRM CMS Products Reports Accounts

## License Plans

+ Add Plan

All License Plans | All License Types | All License Status | All Discount Status

Base Plan	Type	Status	Available	Discount	Price	Unit	Last Edited	
licenseplan1	Enterprise	Active	10 monthly users	INACTIVE	\$100		2 months ago	Manage
licenseplan1	Enterprise	Active	10 monthly users	INACTIVE	\$100		2 months ago	Manage
POSTPAID 2000	Enterprise	Active	2000 monthly users	INACTIVE	\$0		9 months ago	Manage
POSTPAID PLAN A.2	Enterprise	Active	200 monthly users	ACTIVE	\$0		9 months ago	Manage
SARWAT	Direct Purchase	Active	2 monthly users	INACTIVE	\$2		9 months ago	Manage

Home CRM CMS Products Reports Accounts

## License Report

All Accounts | All License Type | All License Status | All License Plans | All Countries | Jul 2022

Export

Search

Plan	License Type	Current Status	License Plan Date Added	License Count	License Price	App Use Allocation	App Users Count	Usage Difference
<b>Total</b>								
				118	\$16	428,216	825	428,216

Plan	License Type	Current Status	License Plan Date Added	License Count	License Price	App Use Allocation	App Users Count	Usage Difference
POSTPAID 2000	Enterprise	Active	06/09/2022	126	\$0	430,000	919	429,041
Unpaid Plan	Enterprise	Active	06/09/2022	7	\$14	14	0	14
POSTPAID PLAN A.2	Enterprise	Active	06/09/2022	1	\$0	200	0	200
POSTPAID 1000	Enterprise	Active	06/09/2022	1	\$0	3,000	0	3,000

Home CRM CMS Products Reports Accounts

## Accounts

+ Add Account

All Accounts | All Account Types | All Account Status | All License Plans | All Countries | All Payment Modes

Account Name	Active Since	Account Type	Account Status	License	Users	Locations	Plan/Package	Active Account	Last Edited
Account 1	May 21, 2021	Personal	ACTIVE	0	0	0	Direct JCOE	Yes	10 days ago
Account 2	May 11, 2021	Personal	ACTIVE	2	2	2	POST PAID 2000	Yes	10 days ago
Account 3	May 04, 2022	Personal	ACTIVE	0	1	0	POST PAID PLAN A.2	Yes	10 days ago
Account 4	May 19, 2021	Personal	ACTIVE	2	3	0	POST PAID PLAN A.2	Yes	10 days ago
Account 5	May 20, 2022	Personal	ACTIVE	0	0	0	Direct JCOE	Yes	10 days ago