

# EMC

# JIMMY

## Project Overview

This project was for a leading French publisher of medical and paramedical material - Elsevier Masson SAS. The EMC department of Elsevier Masson was using a legacy Work Flow Management System - JIMMY for publishing activities of EMC. Elsevier Masson requested DigiScape to migrate and enhance the features of JIMMY application to extend the usage of JIMMY with various external users as well as uncovered activities within the EMC's Editorial and production teams.

JIMMY is a web-based application used by Encyclopedie Medico Chirurgicale (EMC) department of Elsevier Masson SAS that facilitates tracking of Editor and Production functions involved in publishing a loose-leaf Encyclopedia. The application creates a repository for all Meta data information of encyclopedia.

## Solution

DigiScape helped Elsevier Masson by complete revamping of their legacy-based work flow management system. We designed the complete system architecture and also the new modules that needed to be added to the system to make it much more robust and usable as per the demand of the industry. JIMMY application is a big and complex Workflow Management System. It demands experience resources who understand the application in details to do any update and/or support of this application. Our team of experts understands the complex workflow and provides timely solutions.



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## Challenges Encountered

- Big and complex workflows in the application.
- Migration of large records of data from Oracle environment to MYSQL.
- Conversion of French character according to MYSQL schema.
- Conversion of Oracle procedure and function to MYSQL.
- Conversion of Oracle Packages and views to PHP script as packages is not supported in MYSQL.
- Conversion of ProC code to PHP script as MYSQL does not support ProC.
- Migration of PHP 4.0 version code to PHP 7 version code as lots of PHP 4 functions are depreciated in PHP 7.
- Configuration of AWS and RDS server on cloud.
- Migrating from high end database to low end database was a big challenge.

## Lesson Learned

- Proper testing on all migration/new developments.
- Large datasets to be exported by using MYSQL tool than using scripts.
- Troubleshooting becomes easier for developers with log aggregation and analysis.
- Health and monitoring of application is super important.
- Early Planning and Communication is Essential.
- Define your strategy and Map out the timeline.

## Technology

- PHP 7
- JavaScript
- Laravel
- CentOS
- MYSQL 5.7
- GitHub
- Perl
- AWS Cloud server

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