Pharmadex 2. Release Notes 2022-03-15

Contents

[Motivation 1](#_Toc98277931)

[Pre-requisite 1](#_Toc98277932)

[Demo release particularities 1](#_Toc98277933)

[The photo gallery in the certificate document 1](#_Toc98277934)

[File uploaders and “onSelectionChange” 2](#_Toc98277935)

[The system health monitoring approach 2](#_Toc98277936)

[Transition company-owned wholesaler workflow 2](#_Toc98277937)

[Inspection workflow approach 3](#_Toc98277938)

# Motivation

* Main – allow generating certificates with photo-gallery (1427,1428)
* Item:
  + improve “onSelectionChange” function for file uploaders (1429)
  + develop the first iteration of the system health monitoring approach (1423,1426)
  + configure “transition wholesaler company-owned” workflow (1424)
  + compare current inspection workflow requirements with the WHO requirements and common practice (SOP) in other inspection agencies (1276)

# Pre-requisite

You must have a Gmail account that has not been registered in the Pharmadex 2 database. You should know the login and password for the supervisor user and have another login and password to log in as a business user, i.e., an applicant.

# Demo release particularities

This release may contain errors, bad user interface behavior, and inconsistencies. Please, report them to [alex.kurasoff@gmail.com](mailto:alex.kurasoff@gmail.com).

* The workflow implementation contains mistakes.
* The configurations described here are only for demonstration purposes.

# The photo gallery in the certificate document

The Nepal team requires that the pharmacy registration certificate should contain photo galleries of owners and pharmacists, instead of a single photo of the owner. The previous version of Docx file uploader/creator does not allow more than one picture in a document. Currently, it is possible (1428).

In addition, the certificate generation process is sufficiently optimized from the database usage point of view (1427). The total time to document generation is reduced.

# File uploaders and “onSelectionChange”

The QA team recognized that on a slow Internet connection the file uploader sometimes does not update the list of files uploaded. This weird behavior has been fixed.

# The system health monitoring approach

As a part of the deployment process, it is necessary to establish system health monitoring system. The typical health monitoring system for Spring Boot application consists of a “Spring Boot Actuator” and log file analyzers.

The “Spring Boot Actuator” (<https://www.baeldung.com/spring-boot-actuators>) provides JMX features that allow monitor processes, memory usage, etc. For current the endpoints to this service and JMX are disabled. It will be enabled in the following iterations.

There are three log files to analyze:

* Apache virtual server log
* Application log
* Long-running query in MySQL database

To provide data for analysis these logs files should be customized:

1. Apache virtual server log should be established for the Pharmadex 2 virtual site and provide at least:
   1. The date and time of an HTTP/HTTPS query
   2. The IP address of the client
   3. The type of the client
   4. The URL
   5. The length of reply in bytes
   6. The time to process this query in microseconds
2. Application log should provide errors and warnings with the possibility to tun on trace data
3. The long-running SQL queries are queries with an execution time of more than 0.5 seconds

For all log files, should be provided the tool to import data to the MySQL database for future querying.

# Transition company-owned wholesaler workflow

This workflow is available in the “New applications” feature. The access configured only for country-wide supervisors and should be fine tuned for branch offices.

The appropriate report will be configured this week.

The URLs are:

* wholesaler.transition.registered
* application.wholesaler.transition.registered
* dictionary.checklist.wholesaler.owned.company
* register.wholesaler.company.transition
* wholesalers.registered.legacy
* pvt.auth.person
* site.pharmacists
* site.pharmacist.pvt
* pharmacy.site.payment
* retail.site.schedule8
* dictionary.application.wholesaler.transition.sreener

# Inspection workflow approach

The WHO does not provide the guide dedicated solely to Pharmacies or Warehouses inspections. Instead, proposed to adapt the common GMP and GPP approach.

The original of the document placed here <https://docs.google.com/document/d/1PJ2qQPfmyzr8N0flSvpfrOKxmD6F9zCf/edit?usp=sharing&ouid=117586632254525624527&rtpof=true&sd=true> tat has been created by Dr. Santusta Adhikari contains a detailed description of the implementation of the inspection process in Nepal. The description of the functions of the Inspectorate Department and “Pharmacy Inspections” seems compatible with GMP and suits GPP. Very important are references to the current legislations codes.

In addition, this description is very similar to the common world practice. An example is the “South Africa Pharmacy Council Pharmacy Inspection and Guide to compliance” that can be found here <https://www.sapc.za.org/Media/Default/Documents/Pharmacy%20inspections%20and%20guide%20to%20compliance.pdf>.

For current, the Pharmadex 2 provides a very basic implementation of pre-registration and routine inspection processes. In the following iteration, it should be revised.