Pharmadex 2. Release Notes 2022-03-29

Contents

[Motivation 1](#_Toc99479467)

[Pre-requisite 1](#_Toc99479468)

[Demo release particularities 1](#_Toc99479469)

[Workflow definition manual 1](#_Toc99479470)

[The bugs found by QA 2](#_Toc99479471)

[Log files data and data visualization tool 2](#_Toc99479472)

# Motivation

* Main – Workflow Definition Manual (A deliverable of the contract)
* Item:
  + Resolve bugs found by the QA team (1370)
  + Improve “Transition Wholesaler Company-owned process” - reports (1424)
  + new EL expressions for the “interval” component (1430)
  + Screener / Inspector / Reviewer / Approver - add link to "check pharmacy name" (1350)
  + Format application and database log files to control system health. Assess data visualization solutions for them

# 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 certificate registration numbers start in new sequency
* In the list of applications in the reports, not all columns may be visible.

# Workflow definition manual

The draft document is here http://redmine.inka.in.ua/documents/134.

# The bugs found by QA

* Some stored procedure calls are not under transaction management. The result is SQL error in log files – “bad SQL”. Fixed by adding global @Transactional annotation
* Error in SQL for stored procedure “dict\_depth”. The result is a lack of possibility to use more than 4 levels in the dictionaries
* Error in the new “interval” component. Wrong validation rules for “from” and “to” dates are fixed.
* Duplicate records in the applicant’s monitoring table

# Log files data and data visualization tool

As the information system owner, a Supervisor is responsible for the operability. The operability may be accessed from the subject area and IT system points of view. A Supervisor is a subject area expert, thus the operability from the subject area point of view does not require any additional tools.

However, a Supervisor is not an IT expert, thus should be existed the system health monitor tool is required. This tool should allow for not IT experts person recognize IT issues and ask experts, to perform the right actions to keep Pharmadex 2 in a healthy state.

The main source is log files. For analyzing log files by the not-IT person the most common data visualization tool is GnuPlot(https://sourceforge.net/projects/gnuplot/files/) or RStudio (<https://www.rstudio.com/products/rstudio/download/>). We asked the non-IT person to access both tools. The result of the assessment is below:

The GnuPlot:

* Obtained general information by typing `help` after running Gnuplot. Source README file
* The graph plotted for simple example functions sin(x)/cos(x) - successful. Source Gnuplot help.
* The graph plotted with a plotting style histogram using discrete data—unsuccessful. Reason—the script is not common understanding.

The RStudio:

* The most mature free plotting tool
* To plot a graph, it is necessary to write a script in simple R - language.
* The good examples are here https://sites.harding.edu/fmccown/r/
* It is possible to understand the script from the example using https://cran.r-project.org/doc/manuals/r-release/R-intro.html

The conclusion:

The R studio is preferable, however, may appear to be complex for a Supervisor.

**Maybe it will be a good idea to provide a pre-defined dashboard, instead of a free plotting tool**.