Name: Tianbo Song

Documentation time: 08/03/2021

Introduction:

As discussed with Xiangqiang Xu on 06/10/2021, I fixed the ’Export (Excel) functionality issue in the UMS Web application after the PHP version upgrade’.

The bug is occurred months ago by an update of PHP version, since the new PHP version no longer support the ‘PHPExcel’ framework, we cannot form and export data to spreadsheet files (Excel) in UMS.

The debug work was done and reviewed by Xiangqiang Xu on 06/17/2021, and deployed from test server to production server by myself (Tianbo Song) on 07/01/2021. This document is an explanation record about details in this debug job.

Details:

At first I tried to fix every error kicked up when server running, after 20+ bugs fixed, I noticed the only way to debug is rebuilt those three Export function file by changing the framework from the previous ‘PHPExcel’ (which was officially deprecated in 2017 and permanently archived in 2019.) And this idea is proved by Xiangqiang Xu in wechat.

After my research, I choose the ‘spreadsheet’ framework, which is the successor of ‘PHPExcel’ and mainly used in industry. Its documentation website: <https://phpspreadsheet.readthedocs.io/en/latest/.>

After proved by Xiangqiang Xu, I started to rebuild those three Export function by rewrote those files:

* exportDirectoryExcel\_ICBCUSA.php
* exportDirectoryExcel\_ICBCNY.php
* exportDirectoryExcel\_ICBCFS.php

All functions inside those files related to ‘PHPExcel’ was changed to ‘spreadsheet’ framework. As post reviewed (the running status of server now), those are functions I updated:

* Import function to call the framework;
* Create new spreadsheet object;
* Functions which related to new IOFactory API;
* Functions which connection to the mysql data base;
* Functions related to spreadsheet (Excel) creation;
* Functions related to write the data to the spreadsheet;
* Also I add functions to clean and start ob to avoid small error or exception occurred in future;

Maintains and installation:

The installation of ‘spreadsheet’ are different from platforms, for the windows server which we using, we need to install ‘composer’ first to install the ‘spreadsheet API’ (according to spreadsheet official website and link above). And for the ‘composer’ installation, here is the link: <https://getcomposer.org/doc/00-intro.md.>

For future update, please first find resources in the ‘spreadsheet’ framework, if we have to change the framework again, please modify the functions above related to new framework.

All files (including the old files before my debug) was backed up in department folder [\\123.60.14.3\p$\For](file://///123.60.14.3/p$/For) IT\ums0701