

CASE STUDIES

Aspose.Cells for .NET Case Study

Lambodar Inc.
Your Ideas, Implemented

Aspose.Cells Easy-to-Use Solution for .NET Import Data
Truncation Issue

Shiaw-Ling Lai, July 30, 2009

Product Background / Overview

Lambodar Inc. is a world-wide provider of dynamic software consulting solutions.

Founded in 2004, Lambodar offers premium custom software for businesses at cost-reducing prices. Armed with a wide arsenal of open-source and proprietary programs at its disposal, Lambodar project managers work intensively to understand the goals and needs of each client to create the perfect software solution. With successful projects in industries such as: Finance, Retail, Healthcare, Insurance, Travel, Telecom, and Government, Lambodar has a proven record of the skills and experience for delivering world-class, quality services. Lambodar Inc. is headquartered in Cupertino, California.

In one of its most recent projects, Lambodar needed to simultaneously transfer and upgrade a client's existing data mining and analysis system from third party providers to new servers hosted under Lambodar. This project was extremely time-sensitive as there were active projects which needed to be pursued even during the transfer, and demanded high-functioning data integration capabilities.

Requirements Scenario

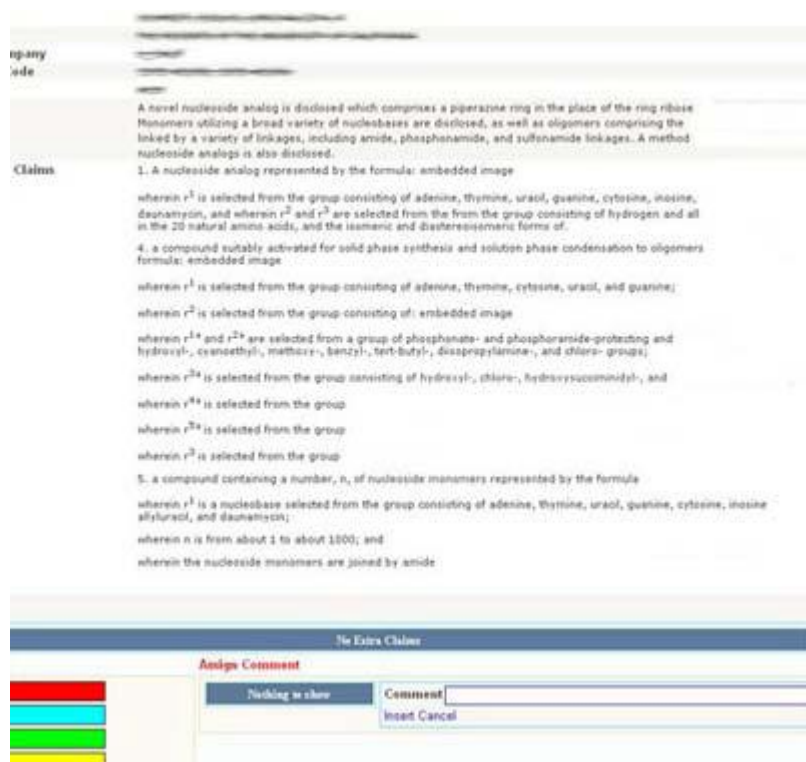
The data tracking and analysis that the client engaged relied heavily on Microsoft Excel workbook/CSV files. Initially, the proprietary system used an OLEDB (Object Linking and Embedding, Database) provider for the Console Application to read the Excel workbook/CSV file uploaded by users and export it into ADO.NET dataset. Some of the fields from the uploaded workbook data were more than 4,000 thousand characters, but after exporting it into the dataset it was truncated to 255 characters. The data truncation was a major handicap to the system, and a critical issue that needed to be resolved, fast.

PATRICIA L.	2008	2008 APR, 2008 REVISED, 10 20 2008, 2008	APPL. GENETICS IN PRACTICE	DEPARTMENT OF FOOD SCIENCE, NORTH CAROLINA STATE UNIVERSITY, 28707-7000 RALEIGH, NC 27697, USA	ALFARAKIS PERG, M ANDERSSON, SARA JOHN ANDERSSON, KENN BENGTSSON, TOSSE	TRANSFERRABLE, AND FUNCTIONAL, AND FOR GALACTOSE AND GLUCOSE AND AND FORMIC ACID TRANSFERASE GENES FROM LACTIC ACID ACID-PRODUCING	THAT ACID IS FOUND IN DIETARY SOURCES SUCH AS COFFEE, TEA, AND LACTULOSE, AND IS PRODUCED BY THE MICROBIAL METABOLISM FROM NETWORK PROLACTIN, LACT ACIDIC ACID, IN THE HUMAN INTESTINE LACTULOSE MAY FORM WITH CALCIUM, SODIUM, MAGNESIUM, AND POTASSIUM TO FORM LACTULOSE SALTS, WHICH CAN CAUSE PAINFUL, LOCAL DISCOMFORT, SUCH AS ABDOMINAL, HEADACHE, AND OTHER SYMPTOMS. IN THE HUMAN INTESTINE LACTULOSE IS CONTAINED IN THE DIET, AND LACTULOSE CONTAINS GENES RELATIVE TO A PROMOTING GROWTH TRANSFERASE GENE (PGL) AND ALDOLASE, GALACTOSE, A LACTULOSE-PRODUCING GENE) HAS IDENTIFIED IN THE GENOME OF THE PROBIOTIC BACTERIUM	NONE	NORTH CAROLINA STATE UNIVERSITY
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The screenshot shows the Pubmed search results page. At the top, there are links for 'Back To Pubmed Search' and 'Go To Pubmed Links'. Below these, the search results are displayed. The first result is titled 'Abstract is truncated. Parser error or something else?'. The abstract text is truncated, and a red arrow points to the truncated text. The interface includes a search bar, a list of search results, and a table of contents.

Using Aspose.Cells, the system exported data from Excel workbooks using the ExportDataTable method of the Cells class. The existing Excel worksheet may contain 500 to 20,000 or more records. To read the rows and columns, the system uses worksheet.Cells.MaxDataRow and worksheet.Cells.MaxDataColumn, respectively.

Figure 3: With Aspose.Cells, the data truncation problem is resolved



Benefits

Implementing Aspose resolved the issues in three key ways:

1. It removed the necessity of installing Microsoft Excel on the server on which the required application is running.
2. It has eliminated the data truncation issue that the system was facing.
3. Aspose.Cells has proven an excellent tool for exporting the CSV file into a datatable.

Future Implementations

The feature-rich components of Aspose.Cells proved to offer more than just basic data export. Using Aspose greatly expanded the abilities of the client's proprietary application, and further exploration of its capabilities is definitely in the works for other Lambodar clients.

Conclusion

Aspose.Cells resolved the issue of data truncation without requiring any major modification to the existing code. Aspose.Cells was easy to understand, and easy to integrate with the application by adding just a few new lines of code. More extensive workarounds would certainly have been possible, but these would have lacked the simplicity and elegance of the single Aspose.Cells component solution.