

# CASE STUDIES

## Question Paper Generator Case Study



Techior Solutions Pvt. Ltd.

Using Aspose.Imaging

Avinash Moharil, Director, 11<sup>th</sup> November 2017

## About Techior Solutions Pvt. Ltd.

Techior Solutions Pvt. Ltd. Company has been developing software for education sector for last 10 years. The software helps academic institutions manage their question bank easily. The online test engine software helps institution provide online test series.

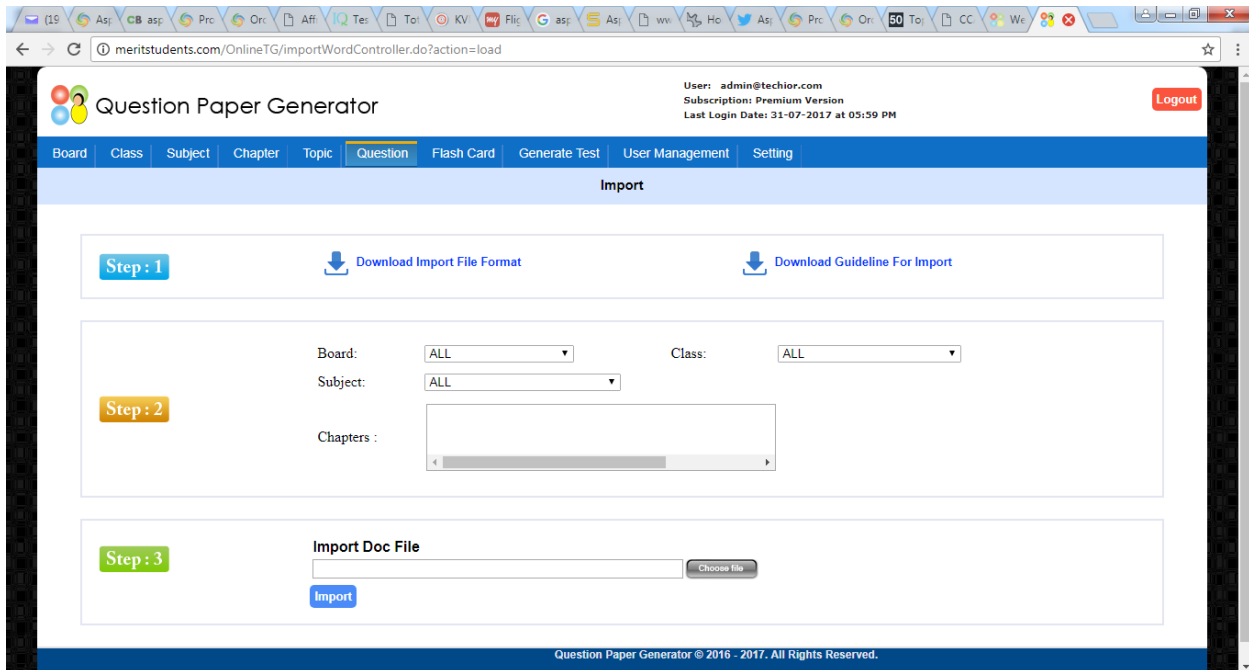
## Problem

At Techior Solutions Pvt Ltd. we have developed a web based Question Paper Generator software for teachers using Java technology. Teachers can create question bank repository based on hierarchy and then use certain criteria to generate random tests which they can export to document. The software helps reduce the efforts significantly. Unfortunately, we stumbled upon a problem where the equations created in Math Type were not imported using Java code. We tried several open source and paid products. Most of our customers were wanting to use the software for academic purpose where Math Type equations were used widely. We developed a workaround where our user needed to convert equations to images with small offline utility and then upload document for importing question bank. This was a tedious tasks and user used to forget that step which resulted in erroneous data.

## Solution

Finally when we tried Aspose.Imaging that helped us convert word Math Type equations to images through our Java program and now the users need not use our workaround. The Aspose technical support team helped us ironed out some issues for image background and clarity about converted images. Thank you Aspose.

Importing questions from Word document is now very simple.



meritstudents.com/OnlineTG/importWordController.do?action=load

Question Paper Generator

User: admin@techior.com  
Subscription: Premium Version  
Last Login Date: 31-07-2017 at 05:59 PM

Logout

Board Class Subject Chapter Topic **Question** Flash Card Generate Test User Management Setting

**Import**

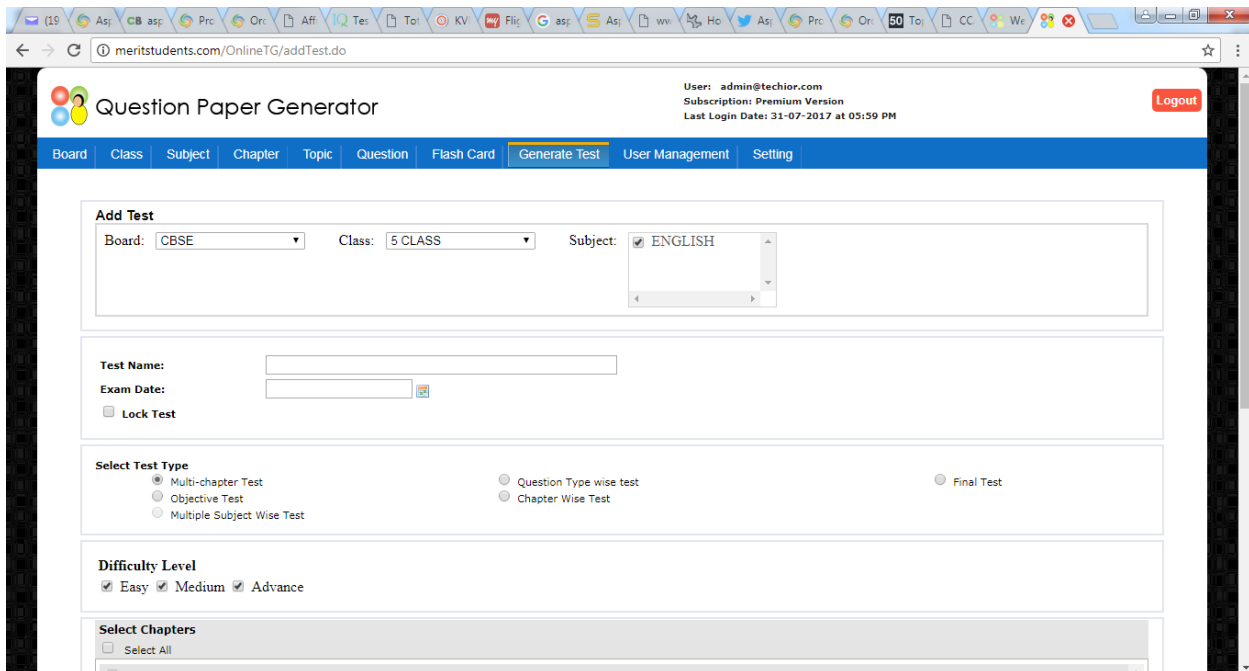
**Step : 1** Download Import File Format Download Guideline For Import

**Step : 2** Board: ALL Class: ALL Subject: ALL Chapters :

**Step : 3** Import Doc File Choose file Import

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## Importing Question Bank from Word document



meritstudents.com/OnlineTG/addTest.do

Question Paper Generator

User: admin@techior.com  
Subscription: Premium Version  
Last Login Date: 31-07-2017 at 05:59 PM

Logout

Board Class Subject Chapter Topic Question **Generate Test** User Management Setting

**Add Test**

Board: CBSE Class: 5 CLASS Subject: ENGLISH

Test Name: Exam Date: Lock Test

**Select Test Type**

Multi-chapter Test Objective Test Multiple Subject Wise Test Question Type wise test Chapter Wise Test Final Test

**Difficulty Level**

Easy Medium Advance

**Select Chapters**

Select All

## Generate Test from Imported Question bank

## Experience

We looked at some products that are available for FREE but it did not solve the issue of converting Math Type equations to images for web. Finally, we tried Aspose.Imaging and we could convert equations to images. Initially, the images had grey background and that created problem for us so we took help of Aspose technical support. They helped us solve all our issues and help us run the software to perfection. The implementation took two weeks and our product is now ready for the market. We are hoping to reach out to our customers worldwide.

## Next Steps

We are evaluating other software from Aspose like Aspose.Word and Aspose.OCR for integrating in our software in coming months.

## Summary

Overall the Aspose.Imaging software solved our main show stopper of converting equations to images without which we could not have released our web based Question Paper Generator. Thank you for timely support.