

STEM123 – Science Technology Engineering Maths

High Level Design Summary

STEM123 is a client-server based application, where server exposes a web-service which can be used by any client application to store / retrieve presentation content related to STEM. For CSS 590 project, implementation consists of following tiers:

1. User Interface – Developed using C# / Windows Phone SDK.
2. Web Service – Developed using Windows Azure SDK and Windows Communication Foundation (WCF) on HTTP transport.
3. Database – Developed using SQL Azure.

Note: All the content of presentation, i.e. images, audio and video streams are stored as Azure BLOBS (Binary Large Objects) while their URLs and metadata information is stored in the SQL Azure database. Following diagram illustrates the text mentioned above:

