

ABSTRACT

Web services make it possible to share programmable application logic among a diverse set of programs, regardless of the platform or the programming language. Such components can be exposed over the Internet or the institution's intranet using Internet protocols. The main purpose of this project is to develop a set of Web Services, which can be accessed from different types of applications.

Examinations Web Services System (EWSS) is an online examinations marks entry and processing system. It supplies modules for authentication, examinations marks entry, results calculations, results viewing, results reporting and analysis. The Web Services module exposes services for delivering mark sheets, grade calculation, and results processing, which are consumed by Web pages and windows applications. The system is developed using C#, using ASP.NET for Web forms and ADO.NET for data access. The system is running under the Microsoft .NET Framework and the database chosen is Microsoft SQL Server 2000.

The system had been used for the processing of the school examination results in Sekolah Menengah Jenis Kebangsaan Chan Wa (SMJKCW). With the system, it reduces the workload of the teacher by over 300%. Besides, the system helps to generate timely and vital reports for analysis. These reports have resulted in appreciative feedback both from the teachers as well as the school administrators.