**PART 1: Justification**

Logical Architecture: Web-based Architecture

The web-based architecture was chosen as it is the most accurate and detailed architecture model for the music school. It was chosen as it can clearly outline each component of system and helps to define each layer distinctly. The four separate tiers (three-tier web-based) within the web-based architecture help to clearly distinguish each layer. By articulating the difference between the web server and application server it helps to easily clarify what scripts are client critical and what are server-based.

This architecture was also chosen as it separates the user interface from the business logic. It is important to separate the two levels as we are trying to avoid close coupling. By employing loose coupling, in which is encouraged by the separation of the web tier and business logic tier, this helps to increase the efficiency of the system. This is because the business logic tier would only respond to requests from the web tier without having any client-side code; whereas the web tier has code from the business logic level as it needs to reference it. The advantages of this distinction are that if the way the data is stored is changed it will not affect the user interface code.

The service-oriented architecture was not chosen as the system being built is not really an open interface design. This is because the website does not directly integrate with another vendor and would not be appropriate for the system. It also does not aid in the distinction between the client UI code and the server-based code and by having the separation of the two this helps in the development process.