**CloudSync System Architecture Overview**

Frontend (Client Side):

* Technologies: HTML, CSS, Bootstrap, JavaScript
* Description: The user interface that allows users to interact with the CloudSync platform, including browsing music, creating playlists, and managing their accounts.

Backend (Server Side):

* Technologies: ASP.NET Core MVC, C#
* Description: The server-side logic that handles user requests, processes data, and interacts with the database.

Database:

* Technology: SQL Server (Running in Docker)
* Description: Stores user information, playlists, song metadata, and the audio files themselves. Azure Data Studio will be used to manage the database.
* Tools: Docker (to containerise the SQL Server instance), Azure Data Studio (for database management).

File Storage:

* Technology: SQL Server Blob Storage
* Description: Audio files (e.g., MP3, WAV) will be stored directly in the SQL Server database using BLOB (Binary Large Object) fields.

Authentication and Authorisation:

* Technology: ASP.NET Identity
* Description: Manages user registration, login, and permissions.