**Feasibility Study: CloudSync**

**1. Introduction**

This feasibility study assesses the practicality and viability of developing CloudSync, a web-based music streaming service that allows users stream their music. The study evaluates technical, operational, economic, and schedule feasibility.

**2. Technical Feasibility**

**Technological Requirements:**

* **Frontend:** HTML, CSS, Bootstrap, JavaScript.
* **Backend:** ASP.NET Core MVC, C#, Entity Framework Core.
* **Database:** MS SQL Server for storing user data, song metadata, and playlists.
* **Tools:** Visual Studio 2022, GitHub for version control, Docker for containerisation, Azure data studio for database.

**Analysis:**  
The technologies required for CloudSync are mature, widely adopted, and supported by documentation and community resources. I have experience with these tools, making the project technically feasible.

**3. Operational Feasibility**

**User Requirements:**

* Users must be able to register, log in, browse genres, and play songs.
* Admins should easily manage content and user accounts.

**Operational Challenges:**

* Ensuring continuous and high-quality music streaming.
* Managing user data securely.

**Conclusion:**  
The application is operationally feasible, if it meets user requirements and addresses the identified challenges effectively.

**4. Economic Feasibility**  
There are no costs as this is a personal not-for-profit project.

**5. Schedule Feasibility**

**Project Timeline:**

* The project is expected to take 2 weeks to complete, with a structured project plan and well-defined milestones.

**Resource Availability:**

* The necessary resources, including myself as a developer and tools, are available and dedicated to the project timeline, with no significant scheduling conflicts anticipated.

**Conclusion:**  
The project timeline is realistic and achievable, making CloudSync feasible within the proposed schedule.

**6. Conclusion**

CloudSync is feasible from technical, operational, economic, and schedule perspectives. The project presents manageable risks and potential benefits, making it viable.