**CloudSync Project Charter**

**1. Project Purpose and Justification**

**Background:**  
CloudSync is a web-based music streaming service that enables users enjoy streaming. The platform will allow users to register, log in, and view their ‘favourited’ songs. Users can explore music by genres, discover artists, and stream songs directly from the website.

**Purpose:**  
The purpose of CloudSync is to provide users with a convenient and reliable platform to access their music collections anytime, anywhere. The service aims to deliver high-quality music streaming with personalised user experiences.

**2. Project Objectives**

* Develop a responsive web application using ASP.NET MVC, HTML, CSS, Bootstrap, and JavaScript.
* Implement user registration and login functionality using ASP.NET Identity.
* Allow users to browse music by genre and artist.
* Provide features for users to create and manage their favourite songs.
* Ensure secure and scalable deployment of the application.

**3. Project Scope**

**In-Scope:**

* Development of the front-end interface using HTML, CSS, Bootstrap, and JavaScript.
* Implementation of the backend using ASP.NET Core MVC and Entity Framework.
* Database design and integration with Docker container and MS SQL Server database.
* User authentication and authorization using ASP.NET Identity.
* Audio playback and synchronisation functionality.
* Responsive design to ensure compatibility across devices.
* Testing and quality assurance using xUnit.

**Out-of-Scope:**

* Mobile application development.
* Advanced analytics or recommendation algorithms.
* Playlist functionality.

**4. Deliverables**

* **Phase 1:** Project setup, including ASP.NET MVC, Identity, and database configuration.
* **Phase 2:** Development of the user interface for browsing genres and artists.
* **Phase 3:** Implementation of audio playback and synchronisation features.
* **Phase 4:** Integration of user authentication and authorization.
* **Phase 5:** Testing, bug fixing, and deployment.

**5. Project Milestones (on Trello board)**

| **Milestones** |
| --- |
| Project Setup [Completed] |
| UI Development [Completed] |
| Audio Playback [Implemented] |
| User Authentication [Implemented] |
| Testing and QA [Completed] |
| Deployment |

**6. Stakeholders**

* **Project Sponsor:** Trevor Smith
* **Developers:** Naomi
* **End Users:** Registered users of the platform