##### Project Charter

##### (CS4800.03/Nick’s Group-Music Recommender)

**Updated (11/6/23) - Version (x.x)**

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| **Project Name** | | Music Recommender Backend | |
| **Executive Sponsor** | | Hussain Zaidi | |
| **Project Manager** | | Nick Triance | |
| **Primary Stakeholder(s)** | | Application Users | |
| **Project Description / Statement of Work** | | | |
| Develop a web service that will generate a playlist of songs based on user data. The user will login with their Spotify account, and the service will pull data about their listening history. The application will then feed that data into a machine learning model to generate a customized playlist of songs for the user. | | | |
| **Business Case / Statement of Need** *(Why is this project important now?)* | | | |
| Project is a mandatory requirement for passing CS4800 Software Engineering. The application will provide an easy to use web API for users to generate customized music playlists. | | | |
| **Customers** | | | **Customer Needs / Requirements** |
| Application User | | | Generate customized music playlist using user data obtained from Spotify account. |
|  | | |  |
| **Project Definition** | | | |
| **Project Goals** | Design, develop, and implement a machine learning based music recommendation engine using AWS. | | |
| **Project Scope** | Web service with goals stated above. User is required to have a Spotify account, as this is where the system will get user data to make recommendations. | | |
| **Project Deliverables** | Web service providing the services listed under project goals, as well as the source code for said project, as well as documents from each team member, including various diagrams, this project charter, and instructions to deploy and build. | | |
| **Project Constraints / Risks** *(Elements that may restrict a project, project team, or project action)* | | | |
| Team coordination and communication is a primary concern. Scope creep is also a concern. This is a project that must be completed within one semester, as such we cannot afford to have the project balloon beyond that. | | | |
| **Implementation Plan / Milestones***) (Due dates and durations)* | | | |
| We will be utilizing AGILE development to implement this project. As such, we will break this project into three four-week long sprints, for a total of twelve weeks. The goal of the first sprint is to define the project goals, determine what technology to utilize, and coordinate a plan of action with the front end team. The second sprint is centered around creating and training the recommendation model, and the final sprint is focused on integrating everything together with the frontend. | | | |
| **Communication Plan** *(What needs to be communicated? When is communication needed? To who? How?)* | | | |
| Communication will take place on discord. We have an integrated discord with the front end team for our project to allow for quick and easy cross-group communication. Formal meetings will take place as needed, typically after class time on Monday or Wednesday. | | | |
| **Change Management / Issue Management** *(How decisions will be made? How changes will be made?)* | | | |
| All final project decisions will take place according to the democratic process, where team members will vote in order to make an major decisions that will affect the entire project. Smaller issues are left up to the discretion of the individual team members. Decisions which may or may not affect the entire project should be signed off by the project manager. | | | |
| **Project Team Roles and Responsibilities** | | | |
| |  |  |  | | --- | --- | --- | | **Team members** | **Roles** | **Responsibilities** | | Tyler J. Hipolito | Quality Assurance | Ensure quality product, conduct unit tests, find and report bugs. | | Ryan J. Andrada | Developer | Development and Integration of recommender system. | | Nick S. Triance | Project Manager | Scheduling, Oversee project, keep group on task, fill in wherever needed. | | Daniel Sirousbakht | Business Analyst |  | | Andrew Lam | Developer | Development and Integration of recommender system. | | | | |
| **Stakeholder Roles and Responsibilities** | | | |
| |  |  |  | | --- | --- | --- | | **Stakeholders** | **Roles** | **Responsibilities** | | All team members | See above. | See above. | | | | |

**Sign-off**

# **Sponsor :** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** \_\_\_\_\_\_\_\_\_\_\_\_

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