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| **PROJECT CHARTER** | | |
| **Project Name** | SoundByte | |
| **Date Produced** | 22/11/2020 | |
| **Project Goals** | Our goal is to create a machine learning algorithm which can recommend tracks to mix, which are complementary with each-other. Additionally, we would like to provide search/filter functionality. | |
| **Project Objectives** | We will develop a web app which accesses a backend python model. the model will be trained by a large dataset. Our application will accept a limited number of inputs and attempt to provide a standard output of results. We will run a database & storage medium - writing an api for communication between backend & frontend. | |
| **Project Budget** | ~$250 | |
| **Project Sponsor** | Tim Maciag | |
| **Project Manager** | Mason Lane | |
| **Additional Key Project Stakeholders** | | |
| Dr. Yasser Morgan, Dr. Kin-Choong Yow, Artists/Creators, DJ/Mixers, Faculty, Students, Jiwoun Kim, Brandon Clarke | | |
| **Overall Project Milestones** | | **Dates** |
| Requirements Modeling  Analysis Modeling  Core Infrastructure  Search Filter, UI, Result Handler  Suggestion & Download Functionality  Random Input & Playback  Machine Learning Research  Machine Learning Integration Design  Machine Learning development/integration  Project Report/Presentation  Auto Mixing Research/Dev | | ~22/11/2020  ~01/12/2020  ~05/01/2021  ~28/01/2021  ~25/02/2021  ~28/03/2021  ~31/01/2021  ~05/02/2021  ~31/03/2021  ~10/04/2021  DBD |
| **Overall Project Risks** | | |
| May have issues download & playback music from s3. How do we get around api gateways 30s timeout. Streaming? unsure.  Machine Learning may be unreliable. May not have the time to effectively research robust solutions. Solution may be hard to test without user testing. May need to consider devising a way to create targets. Solution must not take too much time. cannot affect user experience. May limit which model we can use. | | |