**Capstone project – Team DADI Music Store Project Sprint Planning**

The project team consists of 4 developers: Diju Mathew, April Nguyen, Dan Tony Le and Indrakumari Parameswaran.

The project will require 3 sprints with 2 weeks for each sprint.

**Sprint 1:**

1.Designing the application with specification documents including application capabilities, appearance and user interaction.

2.Setting up of Azure dev ops task board for task management and for assignment to the team member

3.Setting up of GitHub repository for the project to store and track the application.

4.Flow chart model / Unified Modelling Language, to visually represent the DADI music store application.

5. Creating a spring boot project dadi-music-api in eclipse/Intellij IDE with appropriate dependencies.

6. Creating another spring boot project dadi-music-webapp in eclipse/intelliJ IDE with appropriate dependencies.

7. Setting up of database and table to store tasks data in the MYSQL.

8. Creating com.hcl.model. API and based on UML and populating with data

9.Sprint review with a demonstration of the database, the flow chart and Git hub.

**Sprint 2:**

1.Creating login for the admin and for the user. Admin being able to modify the data and user being able to select songs and check out.

2.Populating the database with data for the application to function.

3.Creating html files for the application for user interaction.

4.Creating packages of com.hcl.controller, com.hcl.repository, com.hcl.security, com.hcl.service and adding codes as required to run the application.

5.Adding code to service to make both projects work together using rest template.

6.Coding using core concepts with user being able to login and move to the register page, being able to see the navigation menu and choose songs and be able to check out.

7.Testing the application with different scenarios of user interactions and checking the database.

8.Sprint Review with a demonstration of the working model of the application.

**Sprint 3:**

1.Adding applicable images to the user pages to improve the appearance of the application.

2.Adding more data to the database to provide more options of songs for the user from the front end using admin login and also being able to enter the data using swagger.

3. Adding logging to the code, to be able to document any errors.

4.Adding invoices for the songs selected by the user, to be able to checkout.

4. Testing the application with different scenarios of user interactions and checking the database.

5.Fixing the bugs, if any present, and fine tuning the application.

6.Final Demonstration of the application to the appropriate person (product owner).

7.Sprint retrospective meeting.

**Team DADI’s Suggestions:**

Enhancement of the requirements to improve project efficacy. Development team’s suggestions to the client include:

1. Adding code for the user/ business being able to see at which dates users bought their albums (purchase history for user) to track the business.

2. Adding more data based on popularity of different decades like songs from 80’s, 90’s etc.

3.Upgrading the application by allowing the user to rent the song (being able to listen to it only for a week or so) for a fraction of the price to buy it.