# CS374 – Intro to Database Management

# Application Development Project

# Rubric for First Deliverable

## Group Member #1: Ouellette, Dean

## Group Member #2: Battista, Jude

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| Name | Requirements | Points | Awarded |
| Description of Application | * An overview of your application * System requirements (e.g. hardware, DBMS, other software) * A detailed description of your application | 25 |  |

Application Overview: We intend to create an application enabling multiple users to easily store information about music, specifically focusing on jazz recordings. Users will be able to query this data using conditions such as artist, instrumentation, track or album titles, venue, and dates to find old favorites or discover new recordings of interest.

System Requirements:

Front end – In pursuit of our design goal of ease of access for multiple users, we intend to create a web-based front end created primarily in HTML5 with support from JavaScript.

Cloud Based – As we do not wish to administer our own web server, we will take advantage of Microsoft’s student access to Azure for our hosting needs.

Data transfer – We propose JSON as the data transfer structure since we have a passing familiarity with it.

C# server application – We wish to take advantage of Linq’s deterministic query features, so we will design the server side application in C#.

DBMS – SQL Server. We intend this to be compatible with a range of database systems, but development will focus on SQL server in order to take advantage of the Microsoft stack’s integration with Azure.

Application Description: The basic premise of the application is a database storing information about jazz recordings, more specifically information about albums, tracks on the albums, and artists, and the way these things relate. For artists, the important information is what albums they’re featured on (and whether they are a leader or a sideman on each album), which songs they perform (and whether they solo on these songs), and the instrument they play on each track. For albums, the important information is the length, the release date, and the tracks they contain. For tracks, the important information is the title, the duration, the date of recording, and the venue. The user will be able to query the system using one or more of these attributes as qualifiers and be shown a list of all artists, albums, or tracks fitting their specification(s). In addition, because there is no simple way to input every jazz album ever recorded into the database, users will also be able to add albums, and the associated artists, venues, tracks, and instruments.

Feature List:

Easy addition of albums

Customizable queries- combinations of:

Artists

Album titles

Track titles

Year

Venue