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**Project Report**

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**Introduction**

For this Cloud Application Development project, the task was to create a web application in which was to be deployed on a cloud-based platform. We are to pick a topic and then to choose a programming language and framework in order to create this web application that is to be deployed to a cloud-based platform.

Once the topic, the programming language and framework has been chosen, preparation is to be made in order to complete this project. The first step is to make at least one wireframe in order to design what the web application will look like. This can be done using online tools or applications like Figma as an example.

The next step is to design a database so as to have an optimal database with no redundant data. After the design of the database, the next step is to choose the language used to query the database via the use of object-oriented programming. Once that has been set up, choosing external libraries is to be next. To choose a library, a certain level of research is needed in order to use the external libraries that can be chosen. (Add something about creating a gem)

The type of tests that are to be used is also needed to be decided upon in order to ensure that the web application works as intended.

Once all these steps are completed the next step is to create the web application in question and to choose a suitable cloud platform such as Heroku or Amazon Web Services.

Graphical user interface, text, application

Description automatically generated

Screenshot of Heroku Website

**Purpose**

The purpose of this web application is to create a website that a person can go to and simply add a band or an artist to a database so that other people can look at bands and artists that other people have recommended to listen to. One advantage to this music recommendation site is that there is no need to register and only the band’s name or the artists name and the genre of music is needed.

This type of web application was chosen with the goal of creating a non-committal and simple website that someone can just enter a bands or artists details or check out the other bands and artists that people have recommended.

While it is understood that there are other websites that also recommend music such as Gnoosic (screenshot shown below), it felt like that there that some effort is involved in getting those music recommendations such as Gnoosic would ask a series of questions before you get a music recommendation of a band or an artist and it seems to be one at a time.

Graphical user interface, text, application

Description automatically generated

(Screenshot of Gnoosic homepage)

In order to create a music recommendation website, the Ruby programming language and the framework Ruby on Rails 7 were chosen to be the tools to create this web application.