



## **Undergraduate Final Year Project Proposal**

**Use of NodeJS, ReactJS and MongoDB to build a music social website**

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# **1 Overview**

Nowadays, the world is gradually turning to digital technology which is 4.0. It helps commercial activities, education, entertainment needs become faster, more flexible, and diverse. Of course, that's why websites, apps, games, ... are strongly developed.

My project is also a simple website about a music social network to bring relaxation, entertainment, and convenience to users during stress or tired days. Besides, Nodejs is a flexible, fast-growing language I chose to develop this website. It can easily create as many themes as I want. In addition, I have researched ReactJS that is a framework. Not only that, it is a full library of luxurious theme support for this project because of its convenience and completeness. It will help me create a music website with a dynamic interface and easy maintenance. This website will allow users to post music with the words they want to share. In addition, they can add music they feel like to private playlists. Of course, those are the main functions that I want to bring to everyone. Finally, I hope that the website will give users the best experience.

## **2 Aim**

The idea of creating my music website is based on minimizing the limitations and influences on other social networking platforms. The website allows users to listen to music accompanied by posting a few words, a paragraph or a story to share feelings, find harmony from everyone. It creates a stronger bond if everyone has the same cheerful, quiet or gentle melodies to relieve stress, creating a joyful, positive environment. I want to be able to help people create their own playlists so they don't have to spend a lot of time searching for songs they've heard. The purpose of building a simple music website is as optimized as possible to bring the best experience to users including entertainment, relaxation and sharing emotions through status lines. Finally, I want to apply 2 technologies, NodeJS and ReactJS to this system.

## **3 Objectives**

### **3.1 Website Programming**

#### **3.1.1 Research on social media websites (Facebook, Zingmp3, etc...).**

3.1.2 Research the steps of completing website.

3.1.3 Plan to build a social media website.

### 3.2 NodeJS and ReactJS

3.2.1 Learn and research about OOP.

3.2.2 Learn about NodeJS data structure.

3.2.3 Research on NodeJS related to website.

3.2.4 Learn about ReactJS library.

3.2.5 Study how NodeJS and ReactJS work on server.

3.2.6 Study about data optimization.

### 3.3 Research on feature and user interface.

3.3.1 Research on interface of other social media websites.

3.3.2 Research on some features on others website as same.

3.3.3 Research on current music trends of users.

### 3.4 Objective noun

3.4.1 Build website ideas and flow.

3.4.2 Functional design for website.

3.4.3 Design website interface.

3.4.4 Deploy website on the server.

## 4 Legal, Social, Ethical and Professional

### **Legal:**

- Tools and technologies are used in my website are free on the Internet.
- Material sources are researched from sources.
- I and Greenwich University both own this initiative.

### **Social:**

- This website is designed to satisfy everyone's entertainment needs and does not involve any illegal activities.

- Many music sources are used from around the world which will be not used for business.

- My project just only helps me for studying and researching.

### **Ethical:**

- My efforts and perseverance are reflected in this project.
- The project is not related to plagiarism.

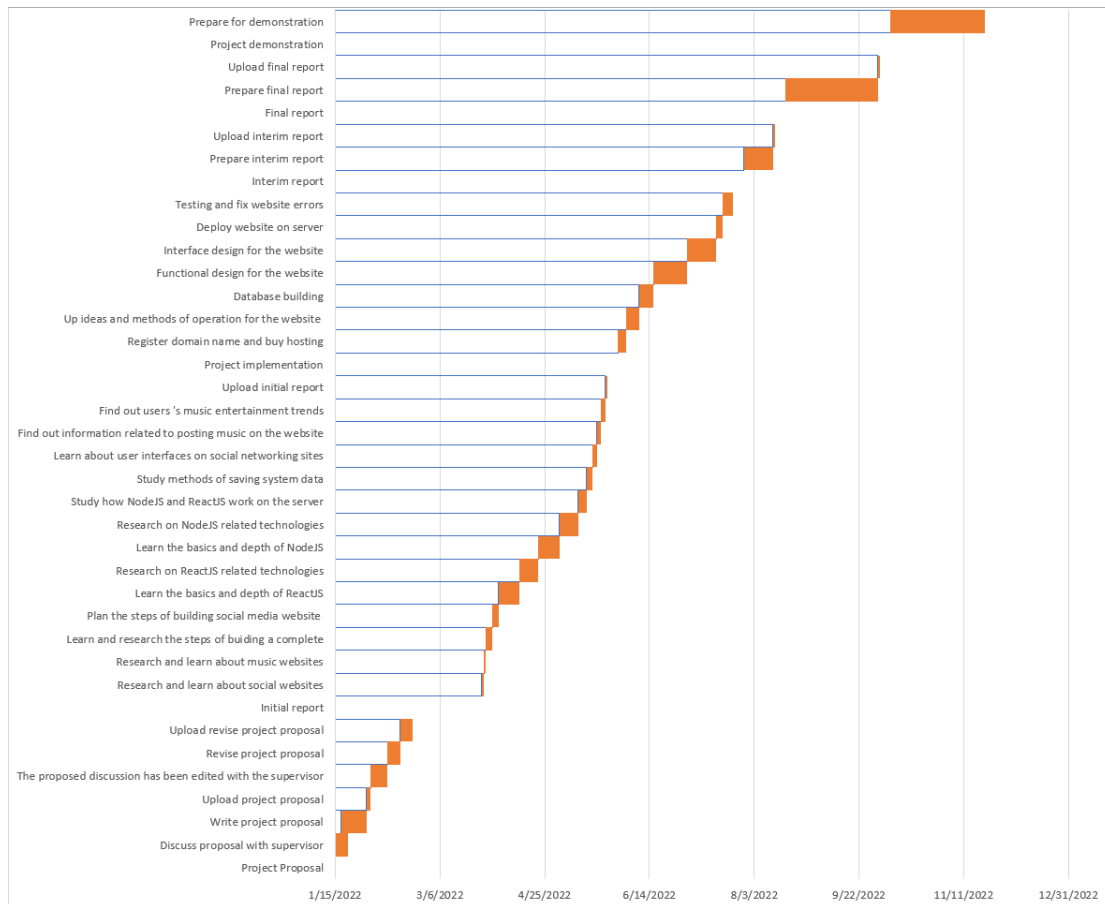
**Professional:**

- Disclosure is not permitted and is disclosed or used for personal purposes or for the benefit of third parties except as permitted by the University of Greenwich or the Law.

- Respect alternative perspectives and honest critique of my project.
- Avoid conflicts between my interests and the authorities.

**5 Planning**

Activity	Start Date	End Date	Duration (days)
<b>Project Proposal</b>			40
Discuss proposal with supervisor	1/15/2022	1/17/2022	6
Write project proposal	1/18/2022	1/29/2022	12
Upload project proposal	1/30/2022	1/31/2022	2
The proposed discussion has been edited with the supervisor	2/1/2022	2/8/2022	8
Revise project proposal	2/9/2022	2/14/2022	6
Upload revise project proposal	2/15/2022	2/20/2022	6
<b>Initial report</b>			60
Research and learn about social websites	3/26/2022	3/26/2022	1
Research and learn about music websites	3/27/2022	3/27/2022	1
Learn and research the steps of building a complete	3/28/2022	3/30/2022	3
Plan the steps of building social media website	3/31/2022	4/2/2022	3
Learn the basics and depth of ReactJS	4/3/2022	4/12/2022	10
Research on ReactJS related technologies	4/13/2022	4/21/2022	9
Learn the basics and depth of NodeJS	4/22/2022	5/1/2022	10
Research on NodeJS related technologies	5/2/2022	5/10/2022	9
Study how NodeJS and ReactJS work on the server	5/11/2022	5/14/2022	4
Study methods of saving system data	5/15/2022	5/17/2022	3
Learn about user interfaces on social networking sites	5/18/2022	5/19/2022	2
Find out information related to posting music on the website	5/20/2022	5/21/2022	2
Find out users 's music entertainment trends	5/22/2022	5/23/2022	2
Upload initial report	5/24/2022	5/24/2022	1
<b>Project implementation</b>			55
Register domain name and buy hosting	5/30/2022	6/2/2022	4
Up ideas and methods of operation for the website	6/3/2022	6/8/2022	6
Database building	6/9/2022	6/15/2022	7
Functional design for the website	6/16/2022	7/1/2022	16
Interface design for the website	7/2/2022	7/15/2022	14
Deploy website on server	7/16/2022	7/18/2022	3
Testing and fix website errors	7/19/2022	7/23/2022	5
<b>Interim report</b>			15
Prepare interim report	7/29/2022	8/11/2022	14
Upload interim report	8/12/2022	8/12/2022	1
<b>Final report</b>			45
Prepare final report	8/18/2022	9/30/2022	44
Upload final report	10/1/2022	10/1/2022	1
<b>Project demonstration</b>			45
Prepare for demonstration	10/7/2022	11/20/2022	45



## 6 References

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