**Undergraduate Final Year Project Proposal**

**Research and apply Nodejs and Reactjs to cutting and sharing music as the social media website.**

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## Overview:

In the era of digital technology boom like the present, the entertainment needs of people are also changing more and more. Entertainment applications and websites are increasingly popular around the world in general and in Vietnam in particular. Aims to meet the needs of people mentally when the pressures in their life become more and more intense. Their demand for entertainment is increasing. That is why social networking and entertainment sites such as Facebook, Zalo, Instagram, Spotify, and so on are going to thrive today. And in the future, I think they will grow to a new level.

Because of the above trends in the world, in this project, I came up with the idea of ​​building an entertainment website that can cut, edit, download music clips, and share them as one article like one. entertainment social network. A social media website shares a piece of music with emotional status lines accompanying the music a user wants to share. Other viewers and listeners can comment on the post and rate it.

In terms of technology, I apply it in this project. I use Reactjs, one of the JavaScript frameworks that supports the construction of the view layer (the V in the Model View Controler - Model View Controler) (1). In this project, I want to apply Reactjs because of its accessibility and usability. Optimized performance better with virtual DOM keeps web pages updated continuously and avoids disruptions. The second technology that I want to apply in this project is Nodejs that makes it easier for me to build and expand websites in a simpler way. Its optimization is the strength that I aim to make my website lighter and speed up data processing (3). And this is also quite a compatible MongoDB technology that I plan to use for my system. Above are the two major technologies that I want to apply in my project Reactjs and Nodejs. In addition, I also apply Scss in the project. It helps me write CSS in the way of a programming language, has a clear structure, is clearer, and is easier to develop and maintain code (4). Besides that, I will also use some other small technologies during the construction of this project such as MongoDB, Javascript, and some others that I will mention during project construction.

## Aim

My purpose in building this social media website is to help meet the entertainment needs of the user. As well as prioritizing the convenience of finding and cutting good music and music for users and allowing them to share feelings and comment on them. And I want to practice applying 2 big technologies, Reactjs and Nodejs, into this system.

## Objectives

* 1. Knowledge of website programming:
     1. Research and learn about social websites.
     2. Research and learn about music websites.
     3. Learn and research the steps of building a complete website.
     4. Plan the steps of building a social media website.
  2. Knowledge of Reactjs and Nodejs:
     1. Learn the basics and in-depth of Reactjs.
     2. Research on Reactjs related technologies.
     3. Learn the basics and depth of Nodejs.
     4. Research on Nodejs related technologies.
     5. Study how Nodejs and Reactjs work on the server.
     6. Study methods of saving system data.
  3. Investigate the project's website interface and information:
     1. Learn about user interfaces on social networking sites.
     2. Find out information related to posting music on the website.
     3. Find out users' music entertainment trends.
  4. Project implementation:
     1. Register domain name and buy hosting.
     2. Up ideas and methods of operation for the website.
     3. Database building.
     4. Functional design for the website.
     5. Interface design for the website.
     6. Deploy website on server.
     7. Testing and fix website errors.

## Legal, Social, Ethical and Professional

* Legal:
  + The technologies I use in this project are published from the World Wide Web.
  + My project will also be based on material sourced from free sources as well as material obtained legally.
  + I am the owner of this project, as well as University of Greenwich.
* Society:
  + This project is designed to help people and is not involved in any illegal and fraudulent business activities.
  + This project of mine uses music resources from around the world which will be sourced, fake and not used for any commercial purpose.
  + This project of mine is only used for learning and research purposes.
* Morality:
  + The project is the result of one's own efforts.
  + Ensure there is no plagiarism in the project.
* Profession:
  + Confidential information must not be disclosed or permitted under all circumstances, and it must not be used for personal gain or for the benefit of a third party, except in specific cases. Greenwich University permits or by regulation.
  + Keep my interests separate from those of authority in any situation that could lead to a conflict of interest.
  + Accept honest reviews about my work. Respect and value other points of view.

## Planning (see appendix A)

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Tính từ part 2.

## Initial References

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9. www.quora.com. (n.d.). *What is SCSS? How does it differ from CSS? - Quora*. [online] Available at: <https://www.quora.com/What-is-SCSS-How-does-it-differ-from-CSS> [Accessed 8 Apr. 2021].
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# Appendix A - Schedule of Work

This should show the schedule of tasks, associated descriptions and mini-deadlines. Remember failure to plan, is planning to fail. It is much harder without a detailed plan – as many students will testify to.