**HO CHI MINH CITY UNIVERSITY OF TECHNOLOGY AND EDUCATION**

**FACULTY FOR HIGH QUALITY TRAINING**

**----🙣🕮🙡----**



**PROJECT ON SOFTWARE ENGINEERING**

**AN IOS APPLICATION FOR PERSONALIZATION SOUND LIST BASED ON ACTIVITY**

**Instructor: Nguyen Thien Bao, PhD.**

**Students :**

**Thieu Quang Khanh 18110022**

**Dao Trung Nam 18110031**

Ho Chi Minh City, August 2021

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM 

Độc lập – Tự do – Hạnh phúc

Ho Chi Minh City, 13 August, 2021

**PROJECT CONTRIBUTION**

Full name: Thieu Quang Khanh ID:18110022 Class: 18110CLA1

Full name: Dao Trung Nam ID:18110031 Class: 18110CLA2

Major: Information Technology

Instructor: Nguyen Thien Bao, PhD.

Date of getting topic: 11/09/2021 Submit date: 13/08/2021

1. Topic: An iOS application for personalization sound list based on activity

2. Original data and documents:

3. Contents:

4. Product:

DIRECTOR/DEPUTY DIRECTOR OF FACULTY INSTRUCTOR

Nguyen Thien Bao

|  |  |
| --- | --- |
|  | **CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**  **Độc lập – Tự do – Hạnh phúc**  **\*\*\*\*\*\*\*** |

**INSTRUCTOR’S EVALUATION**

Full name of student: Thieu Quang Khanh ID: 18110022

Full name of student: Dao Trung Nam ID: 18110031  
Major: Information technology  
Topic: An iOS application for personalization sound list based on activity   
Instructor’s full name: Nguyen Thien Bao, PhD.

**Evaluation:**1. About content & workload:

2. Advantages:

3. Disadvantages:

4. Evaluation Rank:

5. Mark: (By word: ……………………………………)

*Ho Chi Minh city, day 13 month 8 year 2021*

Instructor

Nguyen Thien Bao

|  |  |
| --- | --- |
|  | **CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM**  **Độc lập – Tự do – Hạnh phúc**  **\*\*\*\*\*\*\*** |

**REVIEWER’S EVALUATION**

Full name of student: Thieu Quang Khanh ID: 18110022

Full name of student: Dao Trung Nam ID: 18110031  
Major: Information technology  
Topic: An iOS application for personalization sound list based on activity   
Reviewer teacher’s full name: //Nguyen Tran Thi Van, Ph.D

**Evaluation:**1. About topic content & workload:

2. Advantages:

3. Disadvantages:

4. Evaluation Rank:

5. Mark: (By word: )

*Ho Chi Minh city, day 13 month 8 year 2021*

Instructor

Nguyen Tran Thi Van

**TABLE OF CONTENTS**

Cover page: PAGE

Project contribution: i

INSTRUCTOR’S EVALUATION: ii

Reviewer’s evaluation: iii

Acknowledgement: iv

Summary: v

List of acronyms: vi

List of tables: v

List of images and charts: vi

Chapter 1

* 1. 1

1.1.1. 2

Chapter 2

2.1. <>

2.2. <>

References: <>

Appendix : <>

**ACKNOWLEDGEMENT**

The success of a student more or less always accompanies a lecturer. We would like to express our sincere thanks to Mr. Nguyen Thien Bao, who directly supported the group, give us suggestions, comments and suggestions as well as provide tips to help us make the best project. Thanks to his instructions, helped our team understand the knowledge to do the presentation as well as the implementation of the project so we have completed the schedule with a lot of experience that we learn. Again, our team would like to thank the lecturer. Projects are made around two months, just enough to complete it. However, due to some unexpected problems the project will have many errors, that is inevitable. We are looking forward to receiving all the comments of out tearchers to help our project better. Sincerely thanks.

Ho Chi Minh city, 13 August, 2021

**Students**

Student A Student B

**SUMMARY**

The fourth industrial revolution entering the modern life, the role of the website is more important than ever. Some businesses even developed 80-90% of their website revenue. Website has not only become very popular but also an indispensable tool for every business and individual doing business today. This is a quick method of a fairly effective approach to Internet users. Website is considered as an easy tool to take care of potential customers while expanding target customers for each business. On the other hand, website is an important and effective step forward in implementing the company's marketing strategy. For individuals, using social networks, viewing information on the website is the simplest and fastest way to fully get the necessary information of products and services and is a simple way to search customers, collecting information of partners critical for the business.

**LIST OF ACRONYMS**

SPM: software project management

OOP: …

**CONTENTS**

Chapter 1:

**Example bellow. Contents should be in font size of 14.**

**CHAPTER I: INTRODUCTION**

1. **Introduction about the project subject (1-2 pages)**

This is an open topic and interesting topic for working and developing in the future.

1. **Project objectives (1-2 pages)**

Build an job portal website.

1. **Project outcomes (1-2 pages)**



1. **Project plan (1-2 pages)**

* .

**CHAPTER II: LITERATURE REVIEW**

1. **Key Topic 1 (for example ASP.NET MVC)**

## 1.1. ASP.NET MVC INTRODUCTION

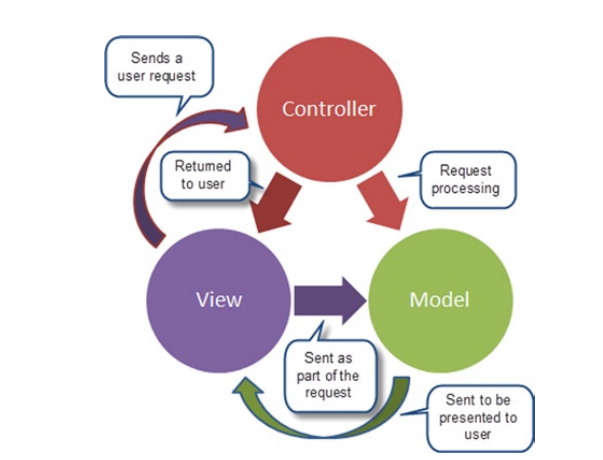
### **1.1.1. History**

Asp.Net MVC is a Framework using .Net Framework for developing dynamic web applications, before the advent of Asp.Net MVC, programmers used Asp.Net Web Form technology on the .Net Framework platform to develope dynamic Web application development.

### **1.1.2. Introduction**

ASP.NET MVC is a [web application framework](https://en.wikipedia.org/wiki/Web_application_framework) developed by Microsoft that implements the [model–view–controller](https://en.wikipedia.org/wiki/Model%E2%80%93view%E2%80%93controller) (MVC) pattern. It is no longer in active development. It is [open-source software](https://en.wikipedia.org/wiki/Open-source_software), apart from the ASP.NET Web Forms component, which is [proprietary](https://en.wikipedia.org/wiki/Proprietary_software).

### **1.1.3. MVC model building**



*Image 1.1: MVC Model*

The MVC (Model-View-Controller) is an application development pattern or design pattern which separates an application into three main components:

1. Model
2. View
3. Controller

*Model:* Model is a part of the application which implements the logic for the data domain of the application. It is used to retrieve and store model state in a database such as SQL Server database. It also used for business logic separation from the data in the application.

*View:* View is a component that forms the application's user interface. It is uses to create web pages for the application. An example would be an edit view of a Products table that displays text boxes, drop-down lists and check boxes based on the current state of a Product object.

*Controller:* Controller is the component which handles user interaction. It works with the model and selects the view to render the web page. In an MVC application, the view only displays information whereas the controller handles and responds to the user input and requests.

## 1.2. Asp.Net MVC architecture

### **1.2.1. Communication in Asp.Net MVC architecture**

The basic components of the Asp.Net MVC application include :

* MVC Framework
* Route engine
* Route configuration
* Control
* Model
* View engine
* View

### **1.2.2. Basic problems about Url and Routing**

Most Web Frameworks such as Asp.net Web Form, jsp ... map url to a file stored on disk.  
*For example :*

Url : <http://abc.com/default.aspx>, execution will navigate to the default.aspx file on the physical drive for example D:\webroot\default.aspx

Asp.net MVC works differently, instead of mapping files on disk, it will map directly to classes, which are controllers..  
*For example:*  
Url : <http://abc.com/>admin, the implementation will navigate the controller as admin, the default Action method in the controller is Index will be called.

## 1.3. The advantages

* Due to the use of MVC model, in ASP.Net MVC it is possible to separate layers in the web programming model, thus helping to optimize the application and ease in writing code and interfaces.
* Interface in ASP.Net MVC uses HTML web design technology, background CSS design interface becomes easy and helps the designer to be flexible in designing.
* ASP.Net MVC does not use view state so the web page is not scaled up so the performance is not reduced.

# **2. Key topic 2 (for example SQL SEVER)**

## 2.1. Introduction

Microsoft SQL Server is a [relational database management system](https://en.wikipedia.org/wiki/Relational_database_management_system) developed by [Microsoft](https://en.wikipedia.org/wiki/Microsoft). As a [database server](https://en.wikipedia.org/wiki/Database_server), it is a [software product](https://en.wikipedia.org/wiki/Software_product) with the primary function of storing and retrieving data as requested by other [software applications](https://en.wikipedia.org/wiki/Software_application)—which may run either on the same computer or on another computer across a network (including the Internet). Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many [concurrent users](https://en.wikipedia.org/wiki/Concurrent_user).

### **2.1.1. History**

The history of Microsoft SQL Server begins with the first Microsoft SQL Server product—SQL Server 1.0, a [16-bit](https://en.wikipedia.org/wiki/16-bit) server for the [OS/2](https://en.wikipedia.org/wiki/OS/2) operating system in 1989—and extends to the current day.

Milestones

**2.1.2. Basic components in SQL Server**

The basic components in SQL Server include: Reporting Services, Database Engine, Integration Services, Notification Services, Full Text Search Service, ... All combined to form a complete solution to help analyze and store data. material becomes easier.

+ **Database Engine**: This is a engine capable of storing data of all sizes in the form of supports and tables. In addition, it also has the ability to self-adjust eg return resources to the operating system when a user logs off and use additional resources of the machine as needed.

+ **Integration Services**: is a set of programming objects and graphic tools for copying, moving and transforming data. When you work in a large company, data is stored in many different places such as: Oracle, SQL Server, DB2, Microsoft Access, ... and you will certainly have a need to move data between this server. In addition, you also want to format the data before saving it to the database. Surely Integration Services will help you handle this task easily

**2.2. Why we use SQL in web development**

SQL is a highly interactive language: Users can easily communicate with utilities through SQL statements to the database and receive results from the database.

**CHAPTER III: SOFTWARE PRODUCT REQUIREMENTS**

# **Review/overview of other similar products**

# **Product requirements**

# **2.1. Target user:**

- Candidates seeks a job. (End-User).

- Company or organizations make a recruitment for hiring staff. (End-User).

- Admin.

### **2.2. Functionalities**

- Admin

*Table 2.1. Function of content admin management page*

- Candidate (User )

*Table 2.2. Function of content candidate management page*

- Employer (User )

*Table 2.3. Function of content employer management page*

* 1. **Use case**

*3.1 use case 1:*

**CHAPTER IV: PRODUCT DESIGN AND IMPLEMENTATION**

* + 1. **Requirement analysis**
    2. **Product design**
  1. **Use case/Sequences diagram**
  2. **Database**
  3. **GUI**
  4. **Implementation**
* **Technology**
* **Hardware**
* **Environment**

1. **Testing**

**CHAPTER V: CONCLUSION AND FUTURE DIRECTIONS**

# **1. Conclusion**

- What you have learned in this project (*about 1-2 pages*)

- What is the result of this project (*about 1-2 pages*)

# **2. Limitations**

In general, the website has met the requirements set out in the construction process. Job portal management website services can meet the needs of customers looking for a job and find the employee. However, there are still a few functions that need improvement to make the website more user-friendly and responsive to the best possible way for users.

# **3. Future works**

**REFERENCES**

[1] Anh Vo, Huy Pham, *Bao Nguyen*, *“An Efficient Framework for Outfit Compatibility Prediction Towards Occasion*”, IEEE Access Journal, 2021 (SCIE)

[2] Bao T. Nguyen, Om Prakash, and Anh H. Vo, *“Attention Mechanism for Fashion Image Captioning”*, [Advances in Intelligent Systems and Computing](https://link.springer.com/bookseries/11156), book series (AISC, volume 1284), Oct 2020, (Scopus Q3)

*[3] Bao Nguyen,* Canh Nguyen, Anh Vo, *“Breast Cancer Classification with Deep Learning”,* the 19th International Symposium on Communications and Information Technologies (ISCIT 2019), Sep 2019, Ho Chi Minh, Vietnam.

[4]