



# **STUDENT MULTIPLE INTELLIGENCE TEST & CAREER RECOMMENDATION**



**NURUL NAQIBAH BINTI ANUAL**



**FACULTY OF ARTS, COMPUTING, AND CREATIVE  
INDUSTRY**

**2023**



STUDENT MULTIPLE INTELLIGENCE TEST & CAREER  
RECOMMENDATION

NURUL NAQIBAH BINTI ANUAL

FINAL YEAR PROJECT REPORT SUBMITTED TO MEET THE  
REQUIREMENTS FOR  
ACQUISITION OF BACHELOR'S DEGREE  
(SOFTWARE ENGINEERING (EDUCATIONAL SOFTWARE)) WITH HONOR

FACULTY OF ARTS, COMPUTING, AND CREATIVE INDUSTRY

2023



**FAKULTI SENI, KOMPUTERAN DAN INDUSTRI KREATIF**

**CERTIFICATE OF AUTHENTICITY OF WRITING**

Student Name : Nurul Naqibah binti Anual

Matric Number : D20191087030

Name of Degree : Bachelor's Degree in Software Engineering (Educational Software) With Honor

Field of Specialization : Educational Software

Project Title: Student Multiple Intelligence Test & Career

Recommendation

I confirm that all materials contained in this final year project report are the result of my efforts. If any work of another person or party whether published or not (such as books, articles, papers, or materials in other forms such as audio and video recordings, electronic publications, or the Internet) has been used, I have already recorded acknowledgment of their contributions through appropriate academic conventions. I also acknowledge that the material contained in this final year project report has not yet been published or submitted for other programs or diplomas/degrees at any university.

20/2/2023

Date

Student Signature

**Supervisor's Clarification:**

I acknowledge that I have read this paper and in my opinion, this paper is adequate in terms of scope and quality for the purpose of awarding the Bachelor of Education (Information Technology / Multimedia / Computerized Design) with Honors.

26/2/2023

Date

Supervisor Signature

(Dr. Muhamad Hariz bin Muhamad Adnan)

## APPRECIATION

Thank you, Allah, for blessing me with the ability to complete my project titled “Student Multiple Intelligence Test & Career Recommendation”. Much appreciated my supervisor, Dr. Muhamad Hariz bin Muhamad Adnan, who was always encouraging and supporting me throughout the project's completion process. Not to mention my gratitude to my loving mother, who has always been my strongest backbone and supporter from the start of this degree until now. A word of appreciation is also given to my colleagues who have always struggled together throughout this degree. This project would not have been completed without the encouragement of my friend. Finally, I also want to convey my profound gratitude to everyone who has been directly or indirectly engaged in the creation of this project.



## STUDENT MULTIPLE INTELLIGENCE TEST & CAREER RECOMMENDATION

### ABSTRAK

Projek ini bertujuan untuk pencerahan kepada pelajar universiti tentang kecenderungan kecerdasan mereka dan cadangan tentang pekerjaan dan bidang yang boleh mereka ceburi pada masa hadapan. Berikutan itu, projek ini menggunakan Model Rad untuk membangunkan projek ini. Inisiatif berasaskan web ini menggabungkan visual yang menarik dan multimedia interaktif. Kertas kerja ini juga akan menerangkan dan menunjukkan perubahan dalam pendekatan yang boleh digunakan sepanjang penciptaan projek, serta perbezaan antara sistem sedia ada dan projek yang akan dicadangkan. Dimana projek ini akan menyediakan ujian kecerdasan pelbagai untuk pelajar universiti. Kemudian, mencadangkan kerjaya yang berkaitan yang sesuai dengan jawapan daripada ujian kecerdasan pelbagai dan kursus yang diambil. Setiap *interface* yang dibangunkan di dalam web ini juga akan diterangkan dengan lebih detail supaya dapat difahami dengan baik sebelum web digunakan. Seterusnya, kertas kerja ini juga membincangkan dengan lebih detail berkenaan analisis daripada keputusan ujian yang dijalankan kepada tiga puluh orang pelajar universiti awam. Oleh itu, diharapkan sistem ini memberi impak dan membantu pelajar universiti untuk lebih mengenali diri mereka sendiri dan menghargai serta menghayati kecenderungan kemahiran dan kelebihan mereka juga membuka mata mereka berkenaan peluang pekerjaan yang sesuai dengan kemahiran dan kelebihan mereka. Kesimpulannya, penyelidikan lebih lanjut untuk penambahbaikan dan kemas kini web ini akan diteruskan agar website ini akan terus memberikan khidmat terbaik untuk semua pengguna.



## STUDENT MULTIPLE INTELLIGENCE TEST & CAREER RECOMMENDATION

### ABSTRACT

This project intends to enlighten university students about their intelligence tendencies and provide enlightenment and advice on occupations and fields that they can pursue in the future. Following that, the project uses the Rad Model to develop this project. This web-based initiative incorporates fascinating visuals and interactive multimedia. This paper will also describe and demonstrate the changes in approach that can be used throughout the project's creation, as well as the distinctions between the existing system and the project to be suggested. Whereas this project will prepare a multiple intelligence test for university students and recommend careers that are related to and compatible with the answers from the multiple intelligence test taken. To ensure that users fully understand each interface created for this website before using it, more information will also be provided on each interface. Following that, this paper goes into greater detail about the analysis of the test results administered to thirty public university students. As a result, it is hoped that this system will help university students better understand themselves, appreciate their skills and strengths, and open their eyes to job opportunities that match their skills and strengths. Finally, further research to improve and update this website will be conducted for it to continue to provide the best service possible to all users.

## CONTENTS

	Page
CERTIFICATE OF AUTHENTICITY OF WRITING	i
APPRECIATION	ii
ABSTRAK	iii
ABSTRACT	iv
CONTENTS	v - vii
LIST OF TABLES	viii
LIST OF FIGURES	ix-x
LIST OF ABBREVIATIONS	xi
ATTACHMENT LIST	xii

## CHAPTER 1 INTRODUCTION

1.1	Introduction	1
1.2	Background Research	2
1.3	Problem Statement	2-3
1.4	Objective Research	3
1.5	Scope	4
1.6	Significance of the Study	4
1.7	Conclusion	4

## CHAPTER 2 LITERATURE REVIEW

2.1	Introduction	5
2.2	What is a website?	5
2.3	Advantages of Website.	5
2.4	Student Multiple Intelligence Test & Career Recommendation Explain	6 - 7

2.5	Existing Website Studies	8
2.5.1	Alis Alberta Website	8
2.5.2	Literacy Net Website	9
2.5.3	MentalUP Website	10
2.6	Existing Website Comparison Analysis	11 -12
2.7	Conclusion	12

### CHAPTER 3 RESEARCH METHODOLOGY

3.1	Introduction	13
3.2	Research Methodology	13
3.2.1	Addie Model	13 -15
3.2.2	Rad Model	15 -16
3.2.3	Prototyping Model	17 -18
3.3	Comparison of Three Methodology	19
3.4	What Is the Methodology Chosen?	20
3.5	Why was RAD Methodology Chosen for This Project?	20
3.6	RAD Phase Explanation	20
3.6.1	First Phase: Planning Requirement	20
3.6.2	Second Phase: User design	21
3.6.3	Third Phase: Construction	21
3.6.4	Fourth Phase: Cutover	22
3.7	Conclusion	22

### CHAPTER 4 PRODUCT DEVELOPMENT

4.1	Introduction	23
4.2	Product Development	23
4.2.1	Product Interface	23
4.2.1.1	Home Page	23 -24
4.2.1.2	Multiple Intelligence Test Page	25



4.2.1.3 Career Recommendation Page	26
4.3 Product Explanation	27
4.4 Conclusion	27
<b>CHAPTER 5 TESTING, ANALYSIS &amp; SUMMARY</b>	
5.1 Introduction	28
5.2 Research Instrument	28-29
5.3 Data Analysis	29-31
5.4 Data Interpretation	32-40
5.5 Conclusion	40
5.6 Future work	41
5.7 Summary	41
<b>REFERENCES</b>	42
<b>ATTACHMENT A</b>	43
<b>ATTACHMENT B</b>	44
<b>ATTACHMENT C</b>	58
<b>ATTACHMENT D</b>	70



## LIST OF TABLES

Table No		Pages
Table 1	Website Comparison Analysis	11 - 12
Table 2	Comparison of Three Methodology	19
Table 3	User Acceptance Test	29 - 30



## LIST OF FIGURES

Figure No		Page
Figure 1	Alis Alberta Website	8
Figure 2	Literacy Net Website	9
Figure 3	MentalUP Website	10
Figure 4	Addie Model	13
Figure 5	Rapid Application Development (RAD) Model	15
Figure 6	Prototyping Model	17
Figure 7	Rapid Application Development (RAD)	20
Figure 8	Home Page Section 1	23
Figure 9	Home Page Section 2	24
Figure 10	Home Page Section 3	24
Figure 11	Multiple Intelligence Test Page	25
Figure 12	Career Recommendation Page	26
Figure 13	Screenshot and link to YouTube	27
Figure 14	Pie chart of gender	28
Figure 15	Bar chart of age	29
Figure 16	The bar chart for the “IQPRO Website is a clear and easy to understand” question.	32
Figure 17	The bar chart for the “IQPRO Website has interesting content” question.	32
Figure 18	The bar chart for the “IQPRO Website uses the appropriate type of font” question.	33
Figure 19	The bar chart for the “IQPRO Website uses appropriate graphics” question.	33
Figure 20	The bar chart for the “IQPRO Website uses appropriate buttons” question.	34
Figure 21	Bar chart for “IQPRO Website uses appropriate colours” question.	34
Figure 22	Bar chart for “IQPRO Website uses appropriate audio” question.	35
Figure 23	Bar chart for “IQPRO Website uses appropriate video” question.	35
Figure 24	The bar chart for the “Navigation on the IQPRO Website is easy and consistent” question.	36
Figure 25	The bar chart for the “Navigation is clear and concise” question.	36
Figure 26	Bar chart for “Number of buttons reasonable” question.	36
Figure 27	The bar chart for the “The questions in IQPRO are simple to understand” question.	37

Figure 28	The bar chart for “I find various functions in this system was a well-integrated” question.	37
Figure 29	The bar chart for the “IQPRO Website is very useful for all ages, especially university students” question.	38
Figure 30	The bar chart for the “All the functions in this IQPRO Website works well” question.	38
Figure 31	A bar chart for the “The test results taken can be issued without any problems” question.	39
Figure 32	A bar chart for the “Career recommendation is displayed without any problem” question.	39
Figure 33	The bar chart for the “The description of intelligence is clear and concise” question.	40
Figure 34	Bar chart for “I feel very confident using the system” question.	40

## LIST OF ABBREVIATIONS

HTML	Hypertext Markup Language
CSS	Cascading Style Sheet
RAD	Rapid Application Development



## ATTACHMENT LIST

- A GANTT CHART
- B SOFTWARE REQUIREMENT SPECIFICATION (SRS)
- C SOFTWARE DESIGN DOCUMENT (SDD)
- D SOFTWARE TEST DOCUMENT (STD)





## CHAPTER 1

### INTRODUCTION

#### 1.1 Introduction

The rapidly developing world is making technology recognizable. More and more websites have been developed nowadays that provide many facilities for all. Similarly, the study that I proposed focuses on the Student Multiple Intelligence Test and Career Recommendation Platform. It is a Web System Platform Development for university students to get career suggestions.

Student Multiple Intelligence Test & Career Recommendation Platform is targeting university students so that they will be more exposed to suitable career recommendations rather than not having any idea about the career that suits their personality and the course they are taking. This Web System Platform is commonly less widely available to tertiary students such as university students because it is more focused on high school students mostly in Malaysia.



## 1.2 Background Research

This Web System Platform is not uncommon for university students. It is often used by university students, to perform any matters related to university administration, obtain learning documents and slides given by their lecturers, or conduct transactions to pay fees and other matters related to their university that necessitate online matters that can be accessed from anywhere. Also, it does not require users to download it on a smartphone or computer. Therefore, the Student Multiple Intelligence Test & Career Recommendation Platform is proposed to facilitate university students identify the best skills and suitable careers better based on the results of the Multiple Intelligence Test they take. Therefore, this Student Multiple Intelligence Test & Career Recommendation is considered an important platform to help university students be more confident and bolder in their decision to choose a future career.

## 1.3 Problem Statement

The Student Multiple Intelligence Test & Career Recommendation is often used by counseling teachers in secondary schools to help and give an overview to five students about the appropriate career path they can take to continue their studies in the future. This is because the research discovers that, despite having undergone career planning classes, most of them are still unsure about their self-cognition as well as lacking the drive and tools to study themselves and society; nonetheless, most of them are anxious to discover their core competence (Chen, J., Cheng, K., & Yan, X., 2020). However, Multiple Intelligence Test is certainly not an odd thing for school students but not for university students. University students are given less exposure to the Multiple Intelligence Test. This may also be because most university students have time constraints where they must spend more time on the internet to complete their work. Most of the existing Multiple Intelligence Test websites do not provide career suggestions that are suitable for university students



according to their intelligence or interests. The website will only generate the outcomes and skills that they are best at.

Multiple Intelligence Test is also less digitized and is often used manually. It is presented inadequately and is not disclosed. The use of Multiple Intelligence Tests as a career recommendation is also less common, as most of these online tests are more focused on the proper field and not on career recommendations. However, not all university students know what careers they can pursue depending on their preferences after completing their studies. Therefore, the Multiple Intelligence Test and career recommendation should be highlighted to university students, so that students get enlightenment about the fields they can venture into in the future.

#### 1.4 Objective Research

This project is developed based on the following objectives:






- To investigate current multiple intelligence tests and career recommendation tools and websites.
- To develop a prototype of the Web System Platform according to the test identified in Objective 1.
- To evaluate the functionalities of the prototype developed in Objective 2.

## 1.5 Scope

Based on computer-based research knowledge and Software Engineering, the function of the prototype web system platform's specific features is to provide career recommendations that suit the personality of university students based on the evaluation of answer choices on the questions provided. This prototype also will include multimedia elements such as text, images, and audio to make this website more interesting and not dull.

The main content of the system is Student Multiple Intelligence Test & Career Recommendation. This Web System Platform focuses more on university students to enlighten them about the field into which will be ventured. Of course, the target users for this courseware are universities student that studies in Malaysia.

## 1.6 Significance of the Study

 05-4506832  pustaka.upsi.edu.my  Perpustakaan Tuanku Bainun  
Kampus Sultan Abdul Jalil Shah  PustakaTBainun  ptbupsi

Student Multiple Intelligence Test and Career Recommendation are built for university students so that they will gain a deeper understanding of themselves. In addition, with this project, students will be exposed to career recommendation that suits them. Also, students will enjoy taking a test that includes interesting multimedia elements.

## 1.7 Conclusion

Finally, this first chapter examines the intended subjects such as target users, objectives, key projects, and scope.