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|  | **Faculty of Industry and Energy Technology** |

**Decision Support System using C #. Net**

A capstone project submitted to faculty of Industry and Energy Technology, New Cairo Technological University, In partial fulfillment of the requirements for the Degree of Higher Diploma

**Information and Communications Technology**

**Submitted by**

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**Approval Sheet**

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**This capstone project has been approved by the examining committee:**

**Score:------------------**

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**DEDICATION**

*Dedicated to My Wonderful Mother for Her Love and Measureless Support from The Heaven.*

# ACKNOWLEDGMENT

First of all, I thank my *" God* " for helping me to achieve this work and giving me the ability to finish this thesis in that satisfactory form*.*

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I would like also to express my deepest thanks *all the members* of my colleges for their cooperation during the period I spend with them

to prepare this work.

I am extremely grateful to *my* *family especially my father, mother*.

*Capstone Project Team*

# ABSTRACT

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| قواعد كتابة الملخص  .1حوالي 200 كلمة  .2يجب أن يتضمن الهدف من العمل والمشكلة العلمية  .3المنهجية المستخدمة لحل المشكلة العلمية  .4عرض أهم النتائج التي تم التوصل إليها  .5خلاصة تتضمن أهمية هذه النتائج |

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# LIST OF ABBREVIATIONS

|  |  |
| --- | --- |
| **Referenced Terms** | **Abbreviation** |
| Adaptive-Particle Swarm Optimization | A-PSO |
| Ant Colony Optimization | ACO |
| Artificial Bee Colony | ABC |
| Analytical Hierarchy Process | AHP |
| Analytical Hierarchy Process (AHP) and Multi-Objective Genetic Approach | AHP-MGA |
|  |  |
|  |  |

# NOMENCLATURES

|  |  |
| --- | --- |
| **Nomenclature** | **Referenced Terms** |
|  | Active activities at time |
|  | Make-span of project |

**CHAPTER I**

**INTRODUCTION**

# CHAPTER 1

## INTRODUCTION

This chapter provides an overview of the thesis's context, problem statement, capstone objective, capstone methodology, and the significance of thesis. Finally, the organization of this capstone project.

### **1 Overview**

Duck’s row is a website that provides a full recommendation to where they could hang out at according to their budget

Figure ‎1‑1 Information systems.

### **2 Problem Statement**

Nowadays most of the teenagers have trouble at picking the best place where they want to go when they’re hanging out and most of the time it result to cancelling all the plans

### **3 Capstone Project Objective**

The main objective of our project is that the website provides a full recommendations to the users according to their budget to make sure they have a great and fun time

### **4 Capstone Project Methodology**

The methodology of this research is summarized as follows:

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### **5 Significance of Proposed Capstone Project**

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### **6 Capstone Project Organization**

This thesis is organized as follows. Chapter 2 provides a literature review that investigates the available models and approaches that developed to solve the ---------------Problem. Chapter 3 introduces --------------

**CHAPTER 2**

**Literature Review**

# CHAPTER 2

## LITERATURE REVIEW

### **1 Introduction**

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### **2 Information Systems**

-----------------------------------------------------------------------------------------

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### **3 Decision Support System**

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### **4 Solution Approaches**

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### **5 C # programming language**

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### **7 Conclusion**

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**CHAPTER 3**

**Multi-Criteria Decision Making**

# CHAPTER 3

## 3 Multi-Criteria Decision Making.

### **1 Introduction**

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### **2 Problem Formulation**

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### 3 **The Applied Approach**

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### **4 Code of Capstone Project**

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**CHAPTER 4**

**REAL WORLD APPLICATION**

# CHAPTER 4

## 6 REAL WORLD APPLICATION

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**CHAPTER 5**

**Conclusion and**

**Future Work**

# CHAPTER 5

## CONCLUSION AND FUTURE WORK

### **1 Conclusions**

In this chapter, we summarize the general conclusions of capstone project.

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2. S. Dhiman H., Deb D. (2020), "*Multi-criteria Decision-Making: An Overview. In: Decision and Control in Hybrid Wind Farms. Studies in Systems*", Decision and Control, vol 253. Springer, Singapore. <https://doi.org/10.1007/978-981-15-0275-0_2>