

**Imam Mohammad ibn Saud Islamic University**

**College of Computer and Information Sciences**

**Information Systems Department**

**AOUN**

**By:**

Saleh Jamal Almutairi, 442015756, 076, Group 06

Yazeed Ayman Kordi, 442020048, 076, Group 06

**Supervised by:**

Prof. Abdul Kader Jilani Saudagar

Project Submitted in Fulfillment for the IS495 Course requirements

Semester-Year



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|  |  |
| --- | --- |
| **Supervisor Name** | Prof. Abdul Kader Jilani Saudagar |
| **Date** | **fhgjkk** |
| **Signature** |  |

# Declaration

We Saleh Jamal Almutairi / 442015756, and Yazeed Ayman Kordi / 442020048 being members of final year project group number 06, declare that this report contains only work completed by members of our group except for information obtained in a legitimate way from literature, company or university sources. All information from these other sources has been duly referenced and acknowledged in accordance with the University Policy on Plagiarism.

Furthermore, we declare that in completing the project, the individual group members had the following responsibilities and contributed in the following proportions to the final outcomes of the project:

|  |  |  |  |
| --- | --- | --- | --- |
| **Student ID** | **Responsibilities[[1]](#footnote-1)** | **Contribution[[2]](#footnote-2) %** | **Signature** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Abstract

[Give a complete but concise description of your work. It is a brief overview of your motivation, statement of purpose, general methodological approach, major results, discussion and conclusion.

Must not exceed one page and not less than 150 words. ]

# Abstract (in Arabic)

# 

أكتب مستخلص المشروع الخاص بك باللغة العربية بحيث لا يقل عن 150 كلمه

# Keywords

[List the main keywords in your project if there are any]

Sample:

Web Application, Management System, Ontology, Data Mining, Cloud Computing, Sound Recognizer Application.

# List of Abbreviations

[List the abbreviations you have used in your project if there are any and what are they stands for]

Sample:

SDLC: Software Development Life Cycle.

JSP: Java Server Pages.

ERD: Entity Relationship Diagram.

DFD: Data Flow Diagram

CSS: Cascading Style Sheets

GUI: Graphical User Interface

HTML: HyperText Markup Language

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# Chapter 1: Planning

## 

## 1.1 Project Overview

[Give a comprehensive overview of your graduation project. Start with your motivation to do the project and the purpose of the project. Then provide a summary of project approaches to complete the project. Conclude the overview with the major results you have achieved]

## 1.2 Problem Statement

The core issue driving the development of the Aoun Project is the significant gap in the accessibility and management of cooperative training opportunities for students nearing graduation. This gap manifests in two primary challenges: first, the lack of a centralized platform where students can discover organizations offering co-op positions relevant to their field of study; and second, the inconventient process of submitting and managing weekly reports for both students and supervisors.

The consequences of not addressing this problem are multifaceted and far-reaching. For students, this gap represents a missed opportunity in gaining vital hands-on experience, enhancing their employability, and bridging the theory-practice divide that is crucial for their transition into the workforce. For educational institutions and employers, the inefficiency and lack of coordination can result in a talent mismatch, underutilization of eager and capable students, and ultimately, a slower pace in addressing the skills gap in various industries.

The need for a solution like the Aoun Project is underscored by evidence from academic studies and labor market analyses that highlight the growing importance of cooperative education. For instance, research indicates that students who participate in co-op programs are more likely to secure employment upon graduation, often with higher starting salaries (National Association of Colleges and Employers, 2020). Additionally, organizations that provide cooperative training opportunities report higher retention rates among employees who participated in these programs as students, underscoring the mutual benefits of such initiatives (Journal of Vocational Education & Training, 2019).

By facilitating easier access to cooperative training opportunities and streamlining the reporting and management process, the Aoun Project aims not only to enhance the educational outcomes for students but also to contribute to a more skilled and ready-to-work graduate pool. This, in turn, supports the broader goal of strengthening the link between academia and industry, thereby fostering a more dynamic and responsive workforce.

## 1.3 Project Impact

[Address the intended impact you wish your system after implementation and operation will have on society and environment (in local and global context).]

Upon implementation, our platform is positioned to majorly impact the Information Systems (IS) department. By providing a comprehensive framework to enhance Co-op programs, we aim to curate a more professional and skilled workforce, better equipped to meet the needs of modern companies. This initiative not only strengthens individual students' skills but also contributes to the overall advancement of the IS field.

On a global scale, our ambition is to establish our platform as the standard across all universities worldwide. The broad implementation will revolutionize recruitment practices globally, ensuring a more effective and efficient matching of talent with opportunities. By bridging the gap between academia and industry, our platform will play a integral role in shaping the future workforce, making it more agile, and ready for the challenges of the future.

## 1.4 Project Stakeholders

### 1.4.1 Students

The **Aoun** platform is primarily intended to benefit students, with a focus on student-centered design. For students, the platform creates new opportunities by streamlining the Co-op training program application process. It successfully resolves the issues with the present application system, such as the inability to find opportunities, guaranteeing that students may efficiently and easily apply for training programs.

### 1.4.2 Faculty

Faculty members with the correct tools to systematically supervise and review students, promoting a structured approach that fosters a conducive environment for continuous student improvement. This systematic approach not only enhances the quality of supervision but also creates opportunities for faculty to provide targeted feedback and support, leading to a more enriching training experience for students. By facilitating a better environment for constant evaluation, the platform plays a pivotal role in the holistic development of students, ensuring they are well-prepared for their future endeavors.

### 1.4.3 Companies

**AOUN** optimizes the registration of co-op programs for companies, simplifying the process of discovering suitable student candidates, sanctioning efficient acceptance or rejection workflows. It enables easy scheduling and conduction of follow-up interviews, all while significantly reducing the reliance on hard copies and signatures for weekly or monthly reviews. This solution is designed to enhance the professionalism and success of co-op program management.

## 1.5 Objectives

[These should describe the overall goal of the graduation project, high level descriptions of what the graduation project will achieve. State your objectives clearly in bullets.]

## 1.6 Approach

[Explain project approach that will be used for different project aspects.]

## 1.7 Project Scope

[Describe what work is in scope for the graduation project, and specifically what work is out of scope. Boundaries, limitations, assumptions, and/or constraints of the graduation project studies, requirement gathering and the final produced system. Conclude this section with a list of all deliverables to supervisor.]

## 1.8 Work Breakdown Structure

[Based on project approach and scope, break down the work that needs to be done to an appropriated level]

## 1.9 Gantt Chart (Time Frame)

[Based on the WBS, provide the time needed to complete each activity. You need to submit GP1 final deliverables for evaluation and verification by week 12 of the GP1 course and GP2 final deliverables for evaluation and verification by week 12 of the GP2 course. Weeks 13 and 14 are for closing the project i.e. performing the presentation and submitting the final deliverables after modifications needed after presentation and evaluation.]

## 1.10 Team Member's Responsibilities

[Based on the WBS, assign each team member's responsibilities. One responsible member per task. Other members can be involved, consultant, participated in doing the task if not responsible to do the task.]

# Chapter 2: Background Analysis

## 

## 2.1 Possible Solutions

[Evaluation of at least two **possible solutions** for **your proposed solution** to the general problem initially described in 1.2 by conducting a Cost-benefit Analysis of each solution.]

## 2.2 Overview of Existing systems

[Overview of existing systems that includes their advantages, and disadvantages. This helps clarify the problem and helps in proposing a solution. Demonstrate what your solution needs to take into account (advantage from other existing systems) and what your solution needs to improve/solve (the disadvantages of existing systems).]

## 2.3 Existing Business Processes

[Detailed explanation of the existing business processes followed by your current customer using existing system preferably in BPMN using one chosen reviewed existing system you wish to use as a baseline for your proposed solution or to understand Current Business Process (As-Is)]

## 2.4 Literature review [if applicable]

Summarize and review the publications in journals, conferences, etc. related to your project.

## 

# Chapter 3: Requirements Analysis

## 3.1 Requirement Gathering Summary Results

[For each requirement gathering technique used provide technique structure and summary results of the requirements gathered. Actual tools used and detailed results should be **in the appendix**]

## 3.2 Stakeholder Requirements

[Provide in this section with final stakeholder requirements gathered from all techniques your proposed system needs to satisfy. Stakeholders should be listed and their stakeholder requirements should be clarified in this section. It summarizes each stakeholder needs and expectations of the final system. More details for system and user requirements can be provided **in the Appendix**]

## 3.3 Proposed Business Process

[Detailed explanation of the proposed business processes preferably in BPMN that will be followed by using your proposed system. Proposed Business Process (To-Be)]

## 3.4 Functional Requirements

[Use-case diagram for major functionalities of the system and Use-case descriptions for each use-case. Number of use-case: should be about 5 – 9 use-cases for major functionalities of the system only]

## 3.5 Non-functional Requirements

[Discuss the non-technical issues (such as – response time, compatibility, green-IT, sustainability etc.) of your project]

# 

# References

[A list of references should include all the documents that you refer to or quote from in your own writing. Follow the IEEE citation style. For information on IEEE style visit <https://www.ieee.org/documents/ieeecitationref.pdf> ]

**Examples:**

**Book**

[1] C. Brusaw, C. Aired, and W. Oliu, *Handbook of Technical Writing*, 3rd ed. New

York: St. Martin’s Press, 1987.

**Journal Article**

[2] S.K. Kenue and J.F. Greenleaf, “Limited angle multi-frequency deification tomography,” *IEEE Trans. Sonics Ultrason*., vol. SU-29, no. 6, pp. 213-2 17, July 1982.

**Dissertation or thesis**

[3] B. Tsikos, “Electricity Load Forecasting” Ph.D. dissertation, Univ. of Pennsylvania, BCE Dept., Philadelphia, 1987.

**Proceedings paper**

[4] R. Finkel, R. Taylor, R. Bolles, R. Paul, and J. Feldman, “An overview of programming system for automation,” in the Proc. of the Fourth International Joint Conference in Artificial Intelligence, pp. 758-765, Sept. 3-7, 1975.

**URLs (when author and title is given)**

[5] Fuminao Okumura and Hajime Takagi, “Maglev Guideway On the Yamanashi Test Line,” http://www.rtri.or.jp/rd/maglev2/okumura.html, October 24, 1998.

**URLs (when author and title is not given)**

[6] <http://www.rtri.or.jp/rd/maglev2/okumura.html>[Last accessed October 24, 1998].

# 

# Appendix

[All appendix items shown here must be included]

# A. Miscellaneous

[Includes any further data (for example: interview form, questionnaire form, Interview answers, questionnaire responses, mock interface, remaining figures of data analysis …etc.)]

# B. Presentation Slides

[4 slides per page]

1. Write down your responsibilities in the project [↑](#footnote-ref-1)
2. Must add to 100% [↑](#footnote-ref-2)