**King Saud University**

**Collage of Computer and Information Sciences**

**Computer Science Department**

**LOGO**

**“Project Title”**

*CSC 49X – Final Report*

**Prepared by:**

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Research project for the degree of Bachelor in Computer Science

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# Acknowledgements

# English Abstract \*

The abstract should complement your proposal abstract and might include additions that do not contradict the previously proposed abstract.

\* These sections should be modified based on the phase of the graduation project.

\*\* These sections are to be included in the final report of CSC497

# Arabic Abstract \*

Your abstract translated to Arabic.

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# Chapter 1: Introduction

The introduction of the research report should aim to catch the reader’s interest and should be written in a style that can be understood easily by any reader with a general computer science background. It gives an overview of the research project you propose and explains the background of the project, focusing briefly on the major issues of its knowledge domain. It then proceeds with the presentation of the research focus, which can take the form of a hypothesis, a research question, a project statement, or a goal statement.

## Problem Statement

This section states the problem that you are exploring and emphasizes the importance of your research. It should also include a clear description of the context of your research.

## Goals and Objectives

This section should include a precise description of the goal you are planning to achieve and how you will achieve it. It should explicitly emphasize the contribution you are planning to make with the intended study.

Goals describe what you want to achieve. Objectives describe how you are going to achieve those goals (what do you want to know, prove, demonstrate, analyze, test, investigate or examine?)

Objectives should be S.M.A.R.T.:

* **Specific** – be precise about what you are going to do.
* **Measureable** – specify an indicator for success, so that you will know when you have reached your goal
* **Achievable** –a less ambitious but completed objective is better than an over-ambitious one that you cannot possible achieve.
* **Realistic** – do you have the necessary resources to achieve the objective?
* **Time constrained** – determine when each stage needs to be completed.

## Solution

A brief description of how your research can contribute in solving the above stated problem.

## Research Scope

Define the boundaries of your research, describe precisely what is included in your research and what is not. This section should also include questions that your research intends to answer.

# Chapter 2: Background

This chapter should give an overview of the knowledge domain where your research takes place. You should define the notations you will be using later in your report, and introduce the user to any concepts, terms, algorithms, or tools you will be using in your project.

# Chapter 3: Literature Review

In this chapter, you should show familiarity with the literature. By exposing the reader to the relevant published work. The literature review should be comprehensive for the problem you are writing about. The purpose of this chapter is to put your work in context with others, and benefit from their experience. You may mention any changes that you have made to your original solution after you have conducted the literature review. Your conclusions should be included in a discussion section by the end of this chapter.

# Chapter 4: Methodology \*

This is the “How” component of your research. This section should include a detailed description of the following (use subsections where applicable):

* What steps will you take and what methods will you use to address your question?
* How will your proposed method provide a reliable answer to your question?
* What specific techniques will you use to test the hypothesis, such as laboratory procedures, interviews, questionnaires, modeling, simulation, text analysis, use of secondary data sources, etc.
* What practical considerations are there; for example, what equipment, facilities, and other resources will be required?

# Chapter 5: Experimental Design \*

In CSC496, this chapter shows the datasets, and specifies the hypotheses your research will address.

In CSC497, you should identify the independent, dependent, and nuisance variables and indicates the way in which the randomization and statistical aspects of an experiment are to be carried out. The primary goal of an experimental design is to establish a causal connection between the independent and dependent variables. A secondary goal is to extract the maximum amount of information with the minimum expenditure of resources

# Chapter 6: Implementation Issues \*\*

This chapter should describe the different algorithms and techniques used to conduct the research and explain the purpose of each algorithm and how they have been combined or adapted. This chapter should also address any faced obstacles (if any) and how they have been solved.

# Chapter 7: Results and Discussion \*\*

## 7.1 Results

The first section of this chapter should detail how the validation approach was conducted, by providing the formulas used in to measure the performance and accuracy of the proposed approach and explain how they have been used for this particular case.

This section should also include your results and compare them to other approaches (especially those mentioned in the literature review). If comparison is not possible, you should describe the reasons for that.

## 7.2 Discussion

The purpose of this section is to explain and discuss the final findings/output of the research and how they are used to prove or disapprove your hypothesis.

# Chapter 8: Conclusion \*

The final chapter of this report should provide a clear, insightful summary of your research, briefly mention the major findings/output, and emphasize the local and global impact of the research. Future directions may also be added.

# References

A bibliography of all cited works and sources you have used throughout this report. All references should follow IEEE format and should be ordered by their occurrence in the report.