

MCA Semester – IV Project

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| **Name** |  |
| **USN** |  |
| **Elective** |  |
| **Date of Submission** |  |



**January 2024**

**A study on Creating Virtual Private Network (VPN) for the organization (Specify your title)**

## Research Project submitted to Jain Online (Deemed-to-be University)

## In partial fulfillment of the requirements for the award of

**Master of Computer Applications**

*Submitted by*

**Student Name**

USN

(Write your number)

*Under the guidance of*

Faculty Name

(Faculty designation)

**DECLARATION**

I, *(Student Name),* hereby declare that the Research Project Report titled *“(Title)” has been* prepared by me under the guidance of *Faculty name.* I declare that this Project work is towards the partial fulfillment of the University Regulations for the award of degree of Master of Computer Applications by Jain University, Bengaluru. I have undergone a project for a period of Eight Weeks. I further declare that this Project is based on the original study undertaken by me and has not been submitted for the award of any degree/diploma from any other University / Institution.

Place: Bengaluru \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: *Name of the Student*

*USN*

**CERTIFICATE**

This is to certify that the Project report submitted by Mr./Ms. *Name of the Student* bearing *(USN)* on the title *“Title of the project”* is a record of project work done by him/ her during the academic year 2023-24 under my guidance and supervision in partial fulfilment of Master of Computer Applications.

Place: Bangalore \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: *Faculty Guide*

**ACKNOWLEDGEMENT**

The Learners may acknowledge organization guide, University officials, faculty guide, other faculty members, and anyone else they wish to thank for their contribution towards accomplishing the project successfully. The Learners may write in their own words and in small paragraph.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Name of the Student*

*USN*

**Executive Summary**

The Learners are expected to provide a brief summary of the entire project in one or two pages in the form of paragraphs.

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**CHAPTER 1**

**INTRODUCTION, SCOPE AND BACKGROUND**

1. **INTRODUCTION, SCOPE AND BACKGROUND**

**1.1 Overview of Project Case / Business case**

**Provide background information on the organization / client chosen for the project. Details of specific department or functions need to be provided. Include the rationale for the project (why).**

**1.2 Problem definition**

**Describe what the project is all about e.g., “are you trying to build an application / website / video / network etc.”**

**Describe the existing system / any problem or issues faced by the organization / client, which requires this project to be undertaken.**

**1.3 Project Scope**

**Provide the details of the work that needs to be accomplished to deliver the product with its required features and functions.**

**Aim/Objectives/Goals of the project.**

**CHAPTER 2**

**REVIEW OF LITERATURE**

1. **REVIEW OF LITERATURE**

**2.1 Literature Review**

**Literature review must start with a background of selected topic, the relevant literature must be identified and give reviews of background reading. Students is expected to review/evaluate the literature in comparison with his/her project tasks. The literature review must include a clear statement of approach to be taken to solve the problem with reference to the background reading.**

**2.2 Feasibility Analysis**

**Feasibility study determines whether it is worth to carry out the intended work. A SWOT analysis can be done for the project. This stage includes identification of business value of the product, evaluation of technical resources/technology needed to solve the existing problem, a cost benefit analysis is done in which the estimated cost is compared with the benefits of the work and an operational feasibility is conducted to discover the particular product is operational in the client environment. Under feasibility study an assessment of ethical factors are also considered.**

**[Business objective, technical feasibility, cost benefit analysis, operational feasibility, Ethical feasibility]**

**CHAPTER 3**

**PROJECT PLANNING AND METHODOLOGY**

1. **PROJECT PLANNING AND METHODOLOGY**

**3.1 Project Planning**

**Project plan section must include various planning documents which support in overall guidance of the project. Develop a Gantt chart which includes activities/tasks, timing, dependencies. Students are expected to develop communication plan, acceptance plan, and resource plan and risk management plan.**

**[Gantt chart, communication plan, acceptance plan, resource plan, risk management plan]**

**3.2 Methodology**

**Provide a comparative study of different methodologies and select a best methodology most appropriate for your project. The rationale/reason for choosing the particular methodology must be justified properly.**

**CHAPTER 4**

**DATA ANALYSIS, DESGN AND IMPLEMENTATION**

1. **DATA ANALYSIS, DESIGN AND IMPLEMENTATION**

**4.1 Requirement Analysis**

**4.1.1 Data Collection**

**Provide details of how data has been collected for your project using primary and secondary sources.**

**[Data collection methods]**

**4.1.2 Data Analysis and tools of data analysis**

**Provide details of how you applied various techniques for data analysis. A clear requirement specification must be provided which includes technical requirements, functional and nonfunctional requirements of the intended product.**

**The student is expected to present his/her analysis in the form of Tables, Charts and Graphs. Each of the tables and graphs should have a number and heading. The table should be put on top and the graph should be put below. Just below the graph, the analysis as well as the interpretation should be written. Preferably one page for one set of table and graph. The next table and graph should be on the next page. For Learners who have prepared a questionnaire, the sequence in the questionnaire and in this chapter should be the same.**

**[Data analysis, Functional requirements, Performance requirements, Design constraints, Database requirements, Security requirements, Maintainability requirements, Usability requirements]**

**3.4 Design**

**Create detailed design diagrams for Logic design, Data design, Process design and Interface design, which match with project requirements. The services and behavior of product must be communicated using various design tasks like database design, network design, and interface design.**

**[Examples include: ER diagrams, Data Dictionary, Block Diagram, Use Case Diagram, Class/Object diagrams, Sequence diagrams, Screen Images for developing application interfaces]**

**CHAPTER 5**

**RESULTS, FINDINGS, RECOMMENDATIONS, FUTURE SCOPE and CONCLUSION**

1. **RESULTS, FINDINGS, RECOMMENDATIONS, FUTURE SCOPE and CONCLUSION**

**5.1 Results of the work**

In this section, an overall project evaluation need to be done where it provides an opportunity for the student to measure all the specified objectives are achieved at the end. In situations where all objectives are not met, student must provide justification for why it has not met. This section helps student to critically evaluate all the work done as a part of project.

**5.2 Findings based on analysis of data**

In this section, student need to interpret and discuss the results of data analysis where it provides an opportunity for the student to measure the impact of data.

**5.3 Recommendation based on findings**

In this section, the student needs to provide the recommendations of the project that can be used or applied in various context. In general, the student must try to market his/her product, for example, how it can be generalized from specific application point of view to highlight its significance to the government, industry or society.

**5.5 Suggestions for areas of improvement**

In this section, the student need to identify the scope for future enhancements to the project work to take to the next level / stage.

**5.6 Scope for future work**

In this section, the student is expected to identify the scope for future enhancements to the project work in about a paragraph.

**5.7 Conclusion**

In this section, the student needs to provide a clear discussion on the conclusions regarding the achievement of the proposed objectives in a couple of paragraphs.

**BIBLIOGRAPHY**

**(APA style; below is only a sample)**

* Atodaria, Z., & Sharma, R. (2019). Investment Pattern of Salaried Class of Somnath (Daman) –A Study of Various Investment Options Available. International Academic Journal of Social Sciences, 06(01), 49–61. https://doi.org/10.9756/iajss/v6i1/191000

**ANNEXURE (if any)**

**The questionnaires, financial statements and any other relevant document can be put here. The annexures have to be numbered in case there are more than one annexure.**