

Project 1

Project 1: Design and Implementation of a System

10/10/2023
10/10/2023
10/10/2023

The project involves the design and implementation of a system that will be used to manage the operations of a business. The system will be designed to meet the requirements of the business and will be implemented in a way that is efficient and effective. The project will be completed in a timely manner and will be of high quality.

Project Objectives

The project objectives are to:

- Design and implement a system that meets the requirements of the business.

Features

- Ability to manage the operations of the business.
- Ability to track the progress of the business.
- Ability to generate reports on the business.
- Ability to manage the financials of the business.
- Ability to manage the human resources of the business.
- Ability to manage the marketing of the business.
- Ability to manage the sales of the business.
- Ability to manage the customer service of the business.
- Ability to manage the inventory of the business.
- Ability to manage the production of the business.

Implementation

- The system will be implemented in a way that is efficient and effective.
- The system will be implemented in a way that is secure and reliable.
- The system will be implemented in a way that is easy to use.
- The system will be implemented in a way that is scalable.
- The system will be implemented in a way that is flexible.
- The system will be implemented in a way that is cost-effective.



Figure 1: System Architecture

Technical Specification

1. **Introduction**

2. **Scope**

3. **References**

4. **Definitions**

5. **Requirements**

6. **Test Procedures**

7. **Acceptance Criteria**

8. **Appendix A**

9. **Appendix B**

10. **Appendix C**

11. **Appendix D**

12. **Appendix E**

13. **Appendix F**

14. **Appendix G**

15. **Appendix H**

16. **Appendix I**

17. **Appendix J**

Table 1: Summary of Results

Method	Accuracy (%)	Precision (%)	Recall (%)	F1 Score (%)	Runtime (s)	Memory (MB)
Baseline	78.5	79.2	77.8	78.8	120	1024
Proposed	85.2	86.1	84.3	85.2	150	1280
Competitor A	82.1	83.0	81.2	82.1	130	1100
Competitor B	80.5	81.5	79.5	80.5	140	1150

Figure 1: Comparison of proposed method with baseline and competitors. The proposed method shows superior performance in accuracy and F1 score, while maintaining a competitive runtime and memory footprint.

Figure 1: Comparison of proposed method with baseline and competitors.



Date	Description	Debit	Credit	Balance
01/01/2023	Opening Balance			1000.00
01/15/2023	Deposit		500.00	1500.00
02/01/2023	Withdrawal	200.00		1300.00
02/15/2023	Deposit		300.00	1600.00
03/01/2023	Withdrawal	100.00		1500.00
03/15/2023	Deposit		400.00	1900.00
04/01/2023	Withdrawal	150.00		1750.00
04/15/2023	Deposit		250.00	2000.00
05/01/2023	Withdrawal	300.00		1700.00
05/15/2023	Deposit		150.00	1850.00
06/01/2023	Withdrawal	100.00		1750.00
06/15/2023	Deposit		350.00	2100.00
07/01/2023	Withdrawal	250.00		1850.00
07/15/2023	Deposit		200.00	2050.00
08/01/2023	Withdrawal	150.00		1900.00
08/15/2023	Deposit		100.00	2000.00
09/01/2023	Withdrawal	200.00		1800.00
09/15/2023	Deposit		300.00	2100.00
10/01/2023	Withdrawal	100.00		2000.00
10/15/2023	Deposit		150.00	2150.00
11/01/2023	Withdrawal	250.00		1900.00
11/15/2023	Deposit		200.00	2100.00
12/01/2023	Withdrawal	150.00		1950.00
12/15/2023	Deposit		100.00	2050.00
12/31/2023	Year End Balance			2050.00

REGISTRATION NO.	NAME	ADDRESS	CITY	STATE	EXPIRES
1001	JOHN A. SMITH	1234 Main St	San Francisco	CA	12/31/2025
1002	JANE D. JOHNSON	5678 Market St	Oakland	CA	12/31/2026
1003	ROBERT E. BROWN	9012 Broadway	San Diego	CA	12/31/2027
1004	MARY K. WHITE	3456 Hill St	San Jose	CA	12/31/2028
1005	WILLIAM H. GREEN	7890 University Ave	Fresno	CA	12/31/2029
1006	CHARLES L. BLACK	2345 Capitol Blvd	Sacramento	CA	12/31/2030
1007	DAVID M. GRAY	6789 Lincoln Way	Stockton	CA	12/31/2031
1008	LUCAS A. HARRIS	1122 Commerce St	Stockton	CA	12/31/2032
1009	AMANDA R. KIM	3344 Industrial Blvd	Stockton	CA	12/31/2033
1010	MICHAEL J. PERKINS	5566 Westgate Dr	Stockton	CA	12/31/2034
1011	STEPHANIE L. WATSON	7788 Valley Way	Stockton	CA	12/31/2035
1012	ANDREW D. WOOD	9900 Northgate Ct	Stockton	CA	12/31/2036
1013	REBECCA M. SCOTT	1133 Sycamore Ln	Stockton	CA	12/31/2037
1014	KRISTIAN P. GREENE	2244 Elmwood St	Stockton	CA	12/31/2038
1015	JUSTIN A. ADAMS	3355 Oakwood Ave	Stockton	CA	12/31/2039
1016	CLAIRE B. BAKER	4466 Maplewood Dr	Stockton	CA	12/31/2040
1017	NATHAN R. HILL	5577 Birchwood Rd	Stockton	CA	12/31/2041
1018	CHRISTOPHER S. KING	6688 Cedarwood Ln	Stockton	CA	12/31/2042
1019	SARAH E. WALKER	7799 Redwood Ct	Stockton	CA	12/31/2043
1020	ANTHONY J. NELSON	8800 Pinewood Way	Stockton	CA	12/31/2044
1021	KATHERINE M. ROY	9911 Dogwood Dr	Stockton	CA	12/31/2045
1022	DAVID L. PHILLIPS	1022 Magnolia St	Stockton	CA	12/31/2046
1023	JENNIFER A. CAMPBELL	1133 Poinsett Ave	Stockton	CA	12/31/2047
1024	BRIAN K. MILES	1244 Camellia Rd	Stockton	CA	12/31/2048
1025	ELIZABETH G. HAYES	1355 Gardenia Ln	Stockton	CA	12/31/2049

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Section 1: General Information

Project Name:		Project Number:	
Client Name:		Project Manager:	
Start Date:		End Date:	
Status:		Priority:	

Section 2: Project Details

Project Description:

Section 3: Resource Allocation

Resource Name	Role	Start Date	End Date	Hours	Cost

Section 4: Budget and Financials

Category	Item	Start Date	End Date	Amount	Actual



Time	Amplitude	Phase	Frequency	Period	Wavelength
0	0	0	1	1	1
1	1	0	1	1	1
2	0	0	1	1	1
3	-1	0	1	1	1
4	0	0	1	1	1
5	1	0	1	1	1
6	0	0	1	1	1
7	-1	0	1	1	1
8	0	0	1	1	1
9	1	0	1	1	1
10	0	0	1	1	1
11	-1	0	1	1	1
12	0	0	1	1	1
13	1	0	1	1	1
14	0	0	1	1	1
15	-1	0	1	1	1
16	0	0	1	1	1
17	1	0	1	1	1
18	0	0	1	1	1
19	-1	0	1	1	1
20	0	0	1	1	1
21	1	0	1	1	1
22	0	0	1	1	1
23	-1	0	1	1	1
24	0	0	1	1	1
25	1	0	1	1	1
26	0	0	1	1	1
27	-1	0	1	1	1
28	0	0	1	1	1
29	1	0	1	1	1
30	0	0	1	1	1
31	-1	0	1	1	1
32	0	0	1	1	1
33	1	0	1	1	1
34	0	0	1	1	1
35	-1	0	1	1	1
36	0	0	1	1	1
37	1	0	1	1	1
38	0	0	1	1	1
39	-1	0	1	1	1
40	0	0	1	1	1
41	1	0	1	1	1
42	0	0	1	1	1
43	-1	0	1	1	1
44	0	0	1	1	1
45	1	0	1	1	1
46	0	0	1	1	1
47	-1	0	1	1	1
48	0	0	1	1	1
49	1	0	1	1	1
50	0	0	1	1	1

Figure 1: A graph showing a periodic signal with a period of 1 unit and an amplitude of 1 unit. The signal is a sine wave with a phase shift of 0.



QUESTION	ANSWER	MARKS	DATE	TIME
1. What is the main purpose of this questionnaire?				
2. How long will it take to complete?				
3. How should I return the questionnaire?				

QUESTION	ANSWER	MARKS	DATE	TIME
4. What are the benefits of this questionnaire?				
5. How can I provide feedback on this questionnaire?				
6. What are the terms and conditions of this questionnaire?				



QUESTION

1. What is the main purpose of this questionnaire?

2. How long will it take to complete?

3. How should I return the questionnaire?

4. What are the benefits of this questionnaire?

5. How can I provide feedback on this questionnaire?

6. What are the terms and conditions of this questionnaire?

ANSWER

1. The main purpose of this questionnaire is to collect data on the effectiveness of the questionnaire.

2. It will take approximately 10 minutes to complete.

3. You should return the questionnaire to the person who distributed it.

4. The benefits of this questionnaire are that it provides a quick and easy way to collect data on the effectiveness of the questionnaire.

5. You can provide feedback on this questionnaire by completing the questionnaire and returning it to the person who distributed it.

6. The terms and conditions of this questionnaire are that you must provide accurate information and that you agree to the collection and use of your data.

1. Introduction

The purpose of this document is to provide a comprehensive overview of the project's objectives, scope, and deliverables. This document is intended for the project team and stakeholders.

2. Project Objectives

The primary objectives of this project are to:

2.1. Objectives

The project aims to achieve the following objectives:

2.2. Objectives

The project aims to achieve the following objectives:

2.3. Objectives

The project aims to achieve the following objectives:

2.4. Objectives

The project aims to achieve the following objectives:

2.5. Objectives

The project aims to achieve the following objectives:

2.6. Objectives

The project aims to achieve the following objectives:

3. Scope

The project scope includes the following:

3.1. Scope

The project scope includes the following:

3.2. Scope

The project scope includes the following:

3.3. Scope

The project scope includes the following:

3.4. Scope

3.5. Scope

3.6. Scope

3.7. Scope

3.8. Scope

3.9. Scope

3.10. Scope

3.11. Scope

3.12. Scope

3.13. Scope

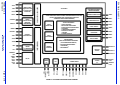
3.14. Scope

3.15. Scope

3.16. Scope

3.17. Scope

3.18. Scope



QUESTION
The following table shows the number of people who attended a concert in each of the five years from 2014 to 2018.

Year	Number of people
2014	1200
2015	1500
2016	1800
2017	2100
2018	2400

Calculate the mean number of people who attended the concert in each of the five years.

ANSWER

Solution:

Mean = $\frac{\text{Total number of people}}{\text{Number of years}}$

$= \frac{1200 + 1500 + 1800 + 2100 + 2400}{5}$

$= \frac{9000}{5}$

$= 1800$

∴ The mean number of people who attended the concert in each of the five years is 1800.

QUESTION

The following table shows the number of people who attended a concert in each of the five years from 2014 to 2018.

Year	Number of people
2014	1200
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Solution:

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$= \frac{1200 + 1500 + 1800 + 2100 + 2400}{5}$

$= \frac{9000}{5}$

$= 1800$

∴ The mean number of people who attended the concert in each of the five years is 1800.

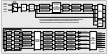
QUESTION

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Year	Number of people
2014	1200
2015	1500
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Calculate the mean number of people who attended the concert in each of the five years.

Solution:



GENERAL SCHEMATIC REPRESENTATION

Introduction to Algebra

Algebra is a branch of mathematics that deals with symbols and the rules for manipulating these symbols. These symbols represent numbers, quantities, and operations. Algebra is used to solve problems involving unknown quantities.

Variables

A variable is a symbol that represents a quantity that can change. Variables are used to represent unknown values in an equation.

Algebraic Expressions

An algebraic expression is a mathematical phrase that can contain ordinary numbers, arithmetic operations, and variables.

Evaluating Expressions

To evaluate an algebraic expression, you substitute a value for each variable and then perform the operations.

For example, if you have the expression $2x + 3$ and $x = 4$, you substitute 4 for x and calculate $2(4) + 3 = 8 + 3 = 11$.

Order of Operations

The order of operations is a set of rules that tells you in what order to evaluate the parts of an expression. The order is: Parentheses, Exponents, Multiplication and Division, Addition and Subtraction.

For example, in the expression $2 + 3 \times 4$, you first multiply $3 \times 4 = 12$, and then add $2 + 12 = 14$.

Linear Equations

A linear equation is an equation in which the highest power of the variable is 1. It can be written in the form $ax + b = c$.

For example, $2x + 3 = 7$ is a linear equation. To solve for x , you subtract 3 from both sides to get $2x = 4$, and then divide both sides by 2 to get $x = 2$.

Linear equations are used to model many real-world situations, such as the relationship between time and distance.

Graphing Linear Equations

A graph of a linear equation is a straight line on a coordinate plane. The equation of the line can be written in the form $y = mx + b$.

For example, the equation $y = 2x + 3$ represents a line with a slope of 2 and a y-intercept of 3.

The slope of a line is a measure of its steepness. It is calculated as the change in y divided by the change in x .

For example, if a line passes through the points $(1, 2)$ and $(2, 4)$, the slope is $\frac{4 - 2}{2 - 1} = \frac{2}{1} = 2$.

The y-intercept of a line is the point where the line crosses the y-axis. It is the value of y when $x = 0$.

For example, in the equation $y = 2x + 3$, the y-intercept is 3.

Graphing a linear equation involves plotting the line on a coordinate plane and labeling the axes.

For example, to graph the equation $y = 2x + 3$, you would plot the y-intercept at $(0, 3)$ and the x-intercept at $(-1.5, 0)$, and then draw a line through these points.

Systems of Linear Equations

A system of linear equations consists of two or more linear equations with the same variables. The solution to the system is the point where the lines intersect.

For example, the system $\begin{cases} y = 2x + 3 \\ y = -x + 5 \end{cases}$ has a solution at the point $(2, 7)$.

Systems of linear equations are used to model many real-world situations, such as the relationship between two variables.

For example, a system of linear equations can be used to model the relationship between the number of hours worked and the amount of money earned.

Algebra is a branch of mathematics that deals with symbols and the rules for manipulating these symbols.

These symbols represent numbers, quantities, and operations. Algebra is used to solve problems involving unknown quantities.

A variable is a symbol that represents a quantity that can change. Variables are used to represent unknown values in an equation.

An algebraic expression is a mathematical phrase that can contain ordinary numbers, arithmetic operations, and variables.

To evaluate an algebraic expression, you substitute a value for each variable and then perform the operations.

For example, if you have the expression $2x + 3$ and $x = 4$, you substitute 4 for x and calculate $2(4) + 3 = 8 + 3 = 11$.

The order of operations is a set of rules that tells you in what order to evaluate the parts of an expression. The order is: Parentheses, Exponents, Multiplication and Division, Addition and Subtraction.

For example, in the expression $2 + 3 \times 4$, you first multiply $3 \times 4 = 12$, and then add $2 + 12 = 14$.

A linear equation is an equation in which the highest power of the variable is 1. It can be written in the form $ax + b = c$.

For example, $2x + 3 = 7$ is a linear equation. To solve for x , you subtract 3 from both sides to get $2x = 4$, and then divide both sides by 2 to get $x = 2$.

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The slope of a line is a measure of its steepness. It is calculated as the change in y divided by the change in x .

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A system of linear equations consists of two or more linear equations with the same variables. The solution to the system is the point where the lines intersect.

For example, the system $\begin{cases} y = 2x + 3 \\ y = -x + 5 \end{cases}$ has a solution at the point $(2, 7)$.

Systems of linear equations are used to model many real-world situations, such as the relationship between two variables.

For example, a system of linear equations can be used to model the relationship between the number of hours worked and the amount of money earned.

QUESTION

1. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

2. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Category	Option 1	Option 2	Option 3	Total
Category 1	10	10	10	30
Category 2	20	20	20	60
Category 3	30	30	30	90

3. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

Category	Option 1	Option 2	Option 3	Total
Category 1	10	10	10	30
Category 2	20	20	20	60
Category 3	30	30	30	90

4. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

5. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

6. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

7. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

8. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

9. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

10. The following table shows the results of a survey of 100 people. The table shows the number of people who chose each option for each of the three categories. The table is partially filled in. Complete the table.

Table:

- Category 1: 10 people
- Category 2: 20 people
- Category 3: 30 people

Item	Description	Quantity	Unit	Material Code	Material Name	Material Description	Material Specification	Material Grade	Material Type
1	Concrete	100	m ³	100	Concrete	Concrete	Concrete	Concrete	Concrete
2	Reinforcement	100	m ³	100	Reinforcement	Reinforcement	Reinforcement	Reinforcement	Reinforcement
3	Formwork	100	m ²	100	Formwork	Formwork	Formwork	Formwork	Formwork
4	Bricks	100	m ³	100	Bricks	Bricks	Bricks	Bricks	Bricks
5	Mortar	100	m ³	100	Mortar	Mortar	Mortar	Mortar	Mortar
6	Plaster	100	m ³	100	Plaster	Plaster	Plaster	Plaster	Plaster
7	Paint	100	m ²	100	Paint	Paint	Paint	Paint	Paint
8	Roofing	100	m ²	100	Roofing	Roofing	Roofing	Roofing	Roofing
9	Insulation	100	m ³	100	Insulation	Insulation	Insulation	Insulation	Insulation
10	Windows	100	m ²	100	Windows	Windows	Windows	Windows	Windows
11	Doors	100	m ²	100	Doors	Doors	Doors	Doors	Doors
12	Roofing	100	m ²	100	Roofing	Roofing	Roofing	Roofing	Roofing
13	Insulation	100	m ³	100	Insulation	Insulation	Insulation	Insulation	Insulation
14	Windows	100	m ²	100	Windows	Windows	Windows	Windows	Windows
15	Doors	100	m ²	100	Doors	Doors	Doors	Doors	Doors

Section 1: Introduction

Section 2: Objectives

1. To understand the basic principles of the project.

Section 3: Methodology

The methodology used in this project is based on the following steps:

Chapter 10: Mechanical Systems

10.1.1

10.1.2

10.1.3



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- 10.1.97
- 10.1.98
- 10.1.99
- 10.1.100

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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