BUSINESS PROJECT REPORT

Business Analysis System for FloralThymes

Project Number: 3

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OBJECTIVE ONE

MISSION

FloralThymes is a flower shop where customers buy custom-made bouquets and flower bundles. We sell flowers for all occasion such as birthdays, Christmas, Thanksgiving, as a gift, and many more. Our primary goal is to spread happiness through the satisfaction of customer's purchase and explore the variety of lovely flowers.

OBJECTIVES

- 1. Be creative with the wide range of flowers
- 2. Create bouquets and bundles for any situation, events, and thymes faster and cheaper
 - 3. Increase customer awareness through social media
 - 4. Expand shops to other location
 - 5. Efficiency and Productivity

COMPETITION STRATEGIES

- A. Use social media such as Facebook, Instagram, Twitter, and even blog to increase awareness
 - B. Compare prices of other shops and price fairly for the market
- C. Collaborate with big companies like Walmart, Hyvee, H-Mart and get bundles and bouquets in the stores
 - D. Continuously improve website for easier customer interaction
 - E. Explore cheaper flower wraps, pots, and dirt while maintaining eco-friendly mindset
 - F. Hire more helpers to reduce congestion and improve productivity

MAIN BUSINESS FUNCTIONS

- 1. Order Processing
- 2. Inventory Management
 - 3, CRM
 - 4. Delivery Service
- 5. Reporting and Analytics
- 6. Employee Management
- 7. Market and Promotion
- 8. Financial Management
 - 9. E-Commerce Work
- 10. Supplier Management

IDINTIFIED CIS SYSTEMS

- CRM System
- POS System
- E-Commerce
- Inventory Management System
 - Email Marketing
 - Accounting Departing
 - Feedback & Review System
 - Delivery System
 - Event Venue System
 - Ordering System

OBJECTIVE TWO

	TOP 10 BA SYSTEMS
Google Analytics	Track website traffic and user behavior. Gain insights into customer demographics and preferences. Analyze marketing campaign performance. Optimize website content based on user interactions. Monitor conversion rates and sales funnel effectiveness. Identify popular products and customer journey patterns. Measure the impact of online promotions and discounts. Improve SEO strategies through keyword analysis. Benchmark website performance against industry standards. Make data-driven decisions for online marketing.
Tableau	Visualize and analyze complex business data effortlessly. Create interactive and dynamic dashboards for real-time insights. Uncover trends, patterns, and outliers in sales and inventory. Consolidate data from various sources for comprehensive analysis. Share visually appealing reports with stakeholders. Monitor key performance indicators (KPIs) at a glance. Explore geographical data with mapping capabilities. Easily integrate with various data storage solutions. Foster collaborative decision-making through data sharing. Enhance overall data-driven decision-making processes.
SAP BUSINESS ONE	Streamline end-to-end business processes for efficiency. Centralize financial management and improve accuracy. Enhance inventory management with real-time tracking. Enable seamless customer relationship management (CRM). Facilitate data-driven decision-making with robust analytics. Integrate seamlessly with e-commerce platforms. Scale operations easily as the business grows. Improve supplier relationship management (SRM). Ensure compliance with industry regulations. Enhance overall business agility and responsiveness.
NETSUITE	Unify business operations with an integrated suite. Automate and optimize core business processes. Streamline financial management and reporting. Enable real-time visibility into inventory levels. Enhance customer experience with efficient order processing. Improve employee productivity through collaboration tools. Support multi-channel sales and e-commerce. Ensure data security and compliance. Scale easily to adapt to changing business needs. Provide actionable insights through customizable analytics.
MICROSOFT DYNAMIC 365	Seamlessly integrate with Microsoft productivity tools. Unify sales, marketing, and customer service processes. Personalize customer interactions with Al-driven insights. Enhance employee productivity with a unified platform. Adapt to changing business needs with flexible deployment. Foster collaboration with integrated communication tools. Gain real-time insights into business performance. Improve customer engagement through personalized experiences. Enable predictive analytics for proactive decision-making. Enhance overall business agility and competitiveness.

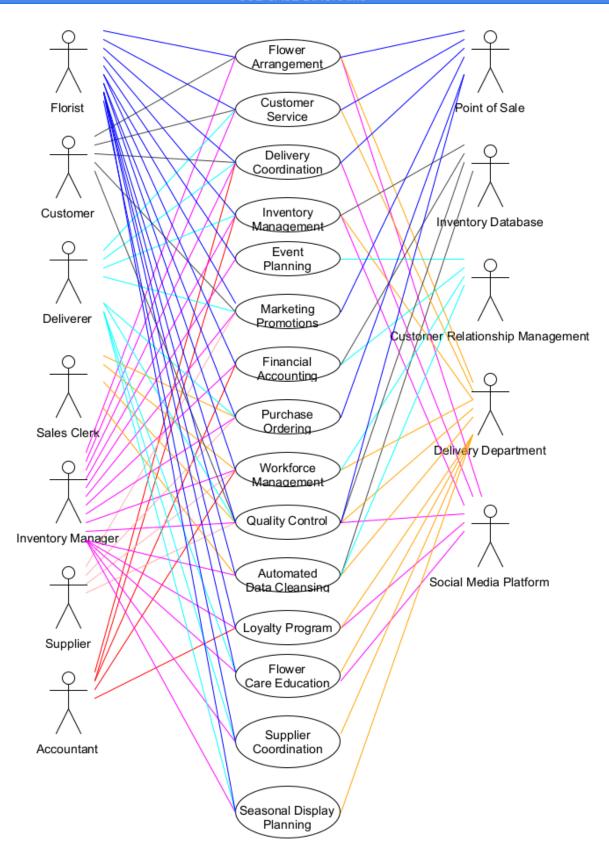
	TOP 10 BA SYSTEMS
LIGHTSPEED	Streamline point-of-sale (POS) and order processing. Manage inventory efficiently with real-time updates. Enhance customer experience through personalized service. Gain insights into sales trends and performance. Implement loyalty programs to retain customers. Facilitate seamless online and in-store sales integration. Optimize employee management with integrated tools. Support multi-location operations with centralized control. Improve decision-making with detailed sales reports. Increase overall operational efficiency and profitability.
SQUARE	Simplify payment processing with a user-friendly system. Enable secure and fast transactions for customers. Create and manage an online store with ease. Streamline inventory management for accurate stock levels. Implement customized loyalty and marketing programs. Access real-time sales and transaction data. Facilitate contactless and mobile payments. Integrate with various third-party applications. Provide detailed sales analytics for informed decisions. Enhance overall customer satisfaction with efficient service.
ZOHO INVENTORY	Optimize inventory levels with automated tracking. Streamline order processing for improved efficiency. Integrate with e-commerce platforms for seamless operations. Enhance supplier relationship management (SRM). Monitor product performance with detailed analytics. Improve accuracy in stock forecasting and replenishment. Centralize information for better decision-making. Enable multi-channel selling with synchronized inventory. Automate repetitive tasks for increased productivity. Enhance overall operational control and visibility.
QUICKBOOKS	Simplify financial management with user-friendly tools. Ensure accurate and timely bookkeeping. Track expenses and income for comprehensive insights. Generate customizable financial reports. Facilitate seamless integration with other business tools. Streamline invoicing and payment processes. Support payroll management for employee compensation. Provide tax preparation and filing assistance. Enable easy collaboration with accountants and advisors. Enhance overall financial visibility and control.
HUBSPOTS	Build and nurture customer relationships with CRM tools. Implement targeted marketing campaigns for engagement. Track and analyze customer interactions across channels. Provide personalized experiences through data insights. Streamline sales processes with automation. Facilitate seamless communication and collaboration. Generate detailed reports on marketing and sales performance. Implement inbound marketing strategies for lead generation. Enhance customer support with ticketing and automation. Optimize content creation and distribution for marketing efforts.

MAIN CLASS OBJECTS												
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Tableau	✓	~	~			✓						
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NETSUITE	✓	✓	~	1		✓						
MICROSOFT DYNAMIC 3	665	~	~	1		✓						
LIGHTSPEED	✓	~	~	1		✓						
SQUARE	✓		~	1		✓						
ZOHO INVENTORY						✓						
QUICKBOOKS				<u> </u>								
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FREQUENCY R		10 out	of 10 (100%)	9 out	of 10 (90%)	9 out of 10 (90%)	10 out of	f 10 (100%)		
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	SWOT ANALYSIS							
STRENGTH (+)	WEAKNESS (-)							
User-Friendly Interfaces	Cost of Implementation							
Comprehensive Functionality	Security Concerns							
Integration Capabilities	Learning Curves							
Efficiency and Productivity	Resource Allocation							
Workflow Automation	Time Needed To Set Up							
OPPORTUNITY (+)	THREAT (-)							
E-Commerce Growth	Cybersecurity Risks							
Mobile App Development	Vendor Reliability							
Marketing Automation	Data Breaches							
Customer Experience Enhancement	Regulatory Changes							
Partnership Opportunities	Market Fluctuations							

USE CASE DIAGRAMS



CLASS OBJECT DIAGRAM

Deliverer

EmployeeID: integer
Name: string, max length 100
ContactNumber: string, max length 15
VehicleType: string, max length 50
Availability: boolean
DeliveryArea: string, max length 200
Completed Deliveries: integer

Completed Deliveries: integer DeliveryRating: float Methods: Schedule Delivery() UpdateAvailability() Record DeliveryCompletion()

Customer

CustomerID: integer
Name: string, max length 100
Email: string, max length 100
ContactNumber: string, max length 15
Address: string, max length 200
PurchaseHistory: string, max length 500
PreferredFlowers: string, max length 200
MembershipStatus: string, max length 500
Methods: PlaceOrder()
UpdateProfile()
ProvideFeedback()

ManagerID: integer

Sales Clerk

Delivery Department

DepartmentID: integer

StaffList: string, max length 500

Methods: AssignDeliveries()

TrackDeliveries()

EvaluatePerformance()

VehicleFleet: string, max length 500

DeliverySchedules: string, max length 1000

CommunicationChannel: string, max length 200

AreaCoverage: string, max length 500
DeliveryEfficiency: string, max length 200

SafetyStandards: string, max length 200

EmployeeID: integer
Name: string, max length 100
ContactNumber: string, max length 15
ShiftTiming: string, max length 50
SalesRecord: string, max length 500
ExpertiseArea: string, max length 100
CustomerInteractions: integer
Email: string, max length 100
Methods: ProcessSale()
ProvideCustomerService()
UpdateSalesRecord()

Social Media Platform

PlatformID: integer
PlatformName: string, max length 100
UserBase: integer
EngagementMetrics: string, max length 500
ContentTypes: string, max length 200
AdvertisingOptions: string, max length 200
AnalyticsTools: string, max length 200
CommunityGuidelines: string, max length 500
Methods: PublishContent()
AnalyzeEngagement()
UpdatePlatformFeatures()

Customer Relationship Management

CRMID: integer
CustomerData: string, max length 1000
InteractionHistory: string, max length 1000
MarketingTools: string, max length 500
CustomerFeedback: string, max length 500
ServiceQuality: string, max length 200
CustomerLoyaltyProgram: string, max length 200
AutomatedResponses: string, max length 200
Methods: UpdateCustomerData()
GenerateReport()
SendMarketingMaterial()

Inventory Manager

StockLevels: string, max length 1000
SupplierContacts: string, max length 500
OrderRecords: string, max length 1000
InventoryValue: float
StorageConditions: string, max length 500
ReorderThreshold: integer
LossPreventionStrategiles: string, max length 500
Methods: UpdateStock()
PlaceOrderWithSupplier()
AnalyzeInventoryTrends()

Supplier

SupplierID: integer
Name: string, max length 100
ProductList: string, max length 1000
ContactInfo: string, max length 200
DeliveryTerms: string, max length 500
QualityStandards: string, max length 200
PaymentTerms: string, max length 200
SupplyCapacity: string, max length 200
Methods: ProvideInventory()
UpdateProductList()
NegotiateContract()

Inventory Database

DatabaseID: integer
InventoryList: string, max length 2000
UpdateFrequency: string, max length 100
DataAccuracy: string, max length 200
StorageCapacity: string, max length 200
BackupProcedures: string, max length 500
AccessControl: string, max length 200
DataAnalyticsTools: string, max length 200
Methods: UpdateInventory()
PerformBackup()
AnalyzeData()

Florist FloristID: integer

Name: string, max length 100
Address: string, max length 200
ExpertiseLevel: string, max length 50
YearsOfExperience: integer
Specialty: string, max length 100
Availability: boolean
ContactNumber: string, max length 15
Email: string, max length 100
Methods: CreateBouquet()
ScheduleConsultation()
UpdateAvailability()

Accountant

AccountantID: integer
Name: string, max length 100
ContactNumber: string, max length 15
Email: string, max length 100
FinancialReports: string, max length 1000
TaxRecords: string, max length 500
PayrollInformation: string, max length 500
ExpenseTracking: string, max length 500
BudgetForecasts: string, max length 500
Methods: PrepareFinancialStatement()
ConductAudit()
ManageBudget()

Point of Sale

POSID: integer
SystemType: string, max length 100
HardwareDetails: string, max length 500
SoftwareVersion: string, max length 100
TransactionHistory: string, max length 1000
UserInterface: string, max length 200
PaymentOptions: string, max length 200
SecurityFeatures: string, max length 200
Methods: ProcessTransaction()
UpdateSystem()
GenerateSalesReport()

Key

Blue - Logistics and Delivery Gray - Customer Interaction Magenta - Inventory and Supply Orange - Core Business Operations Red - Market and Outreach

Black - Al-Enhanced Services (New Tech)

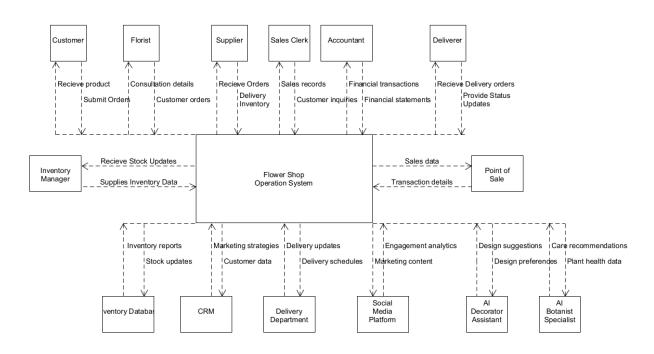
Al Decorator Assistant

AssistantID: integer
AIModelVersion: string, max length 50
LearningData: string, max length 2000
UserInteractions: integer
DesignPreferencesDatabase: string, max length 10
FeedbackAnalysis: string, max length 500
VisualRecognitionCapability: string, max length 20
StyleAdaptation: string, max length 200
Methods: GenerateDesign()
AdaptToFeedback()
UpdateLeamingData()

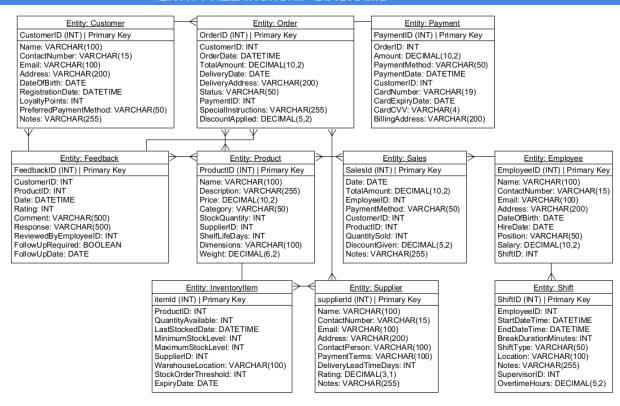
Al Botanist Specialist

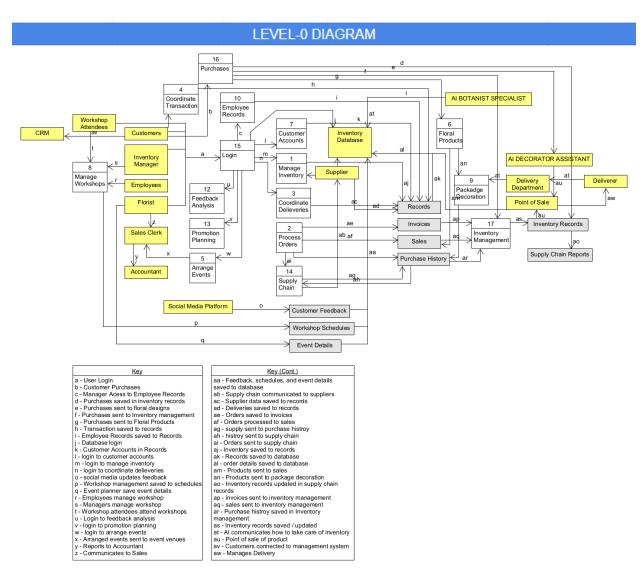
SpecialistID: integer
AlModelVersion: string, max length 50
PlantDatabase: string, max length 2000
GrowthTracking: string, max length 500
DiseaseRecognition: string, max length 500
SoilAnalysis: string, max length 500
ClimateAdaptationData: string, max length 500
WateringRecommendations: string, max length 200
Methods: AnalyzePlantHealth()
ProvideCareRecommendations()
UpdatePlantDatabase()

CONTEXT DFD



ENTITY RELATIONSHIP DIAGRAMS



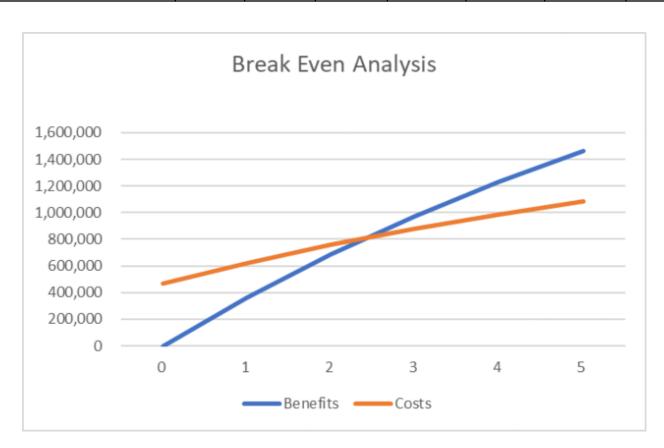


BUDGET PLAN													
CATEGORY	YEAR 5												
Equipment	15000	15000	15000	15000	15000								
Software	15000	15000	15000	15000	15000								
Installation Cost	300000	0	0	0	0								
Service	20000	20000	20000	20000	20000								
Staff	110000	110000	110000	110000	110000								
Other	5000	5000	5000	5000	5000								
TOTAL DIRECT AMOUNT	465000	165000	165000	165000	165000								
Indirect Amount	5000	5000	5000	5000	5000								
TOTAL PROJECT AMOUNT	470000	170000	170000	170000	170000								

EXPECTED TANGIBLE BENEFITS											
BUSINESS ANAYSIS SYSTEM	YEAR 1-5										
Market trends and Favorable Products	\$ 88,000.00										
Media Awareness and Attraction	\$ 60,000.00										
Customer Feedback and Retention	\$ 50,000.00										
Productivity and Efficiency	\$ 28,000.00										
Organization Flow	\$ 35,000.00										
Shipping and Orders	\$ 100,000.00										
Infrastructure	\$ 44,000.00										
TOTAL TANGIBLE BENEFIT	\$ 405,000.00										

COST-BENEFIT ANALYSIS													
Project Year Number	0	1	2	3	4	5	Total						
	Pro	<mark>oject Monet</mark>	t <mark>ary Benefit</mark>	S									
Monetary Benefits (per year)	\$ -	\$ 405,000. 00	\$ 405,000.0 0	\$ 405,000.0 0	\$ 405,000.0 0	\$ 405,000.00							
Discount Rate (constant)	0.12	0.12	0.12	0.12	0.12	0.12							
Discount Rates (diff)	1	0.893	0.797	0.712	0.646	0.567							
Present Value (PV)	\$ -	\$ 361,607	\$ 322,864	\$ 288,271	\$ 257,385	\$ 229,808							
NPV Sum of All PV of Monetary Benefits	\$ -	\$ 361,607	\$ 684,471	\$ 972,742	\$ 1,230,126	\$ 1,459,934	\$ 1,459,934						
		Project	Costs										
One-Time Costs	\$ (400,000)												
Recurring Costs	\$ -	\$ (170,000)	\$ (170,000)	\$ (170,000)	\$ (170,000)	\$ (170,000)							
Discount Rate (constant)	0.12	0.12	0.12	0.12	0.12	0.12							
Discount Rate (diff)	1	0.893	0.797	0.712	0.646	0.567							
Present Value (PV)	\$ (470,000)	\$ (151,786)	\$ (135,523)	\$ (121,003)	\$ (108,038)	\$ (96,463)							
NPV Sum of All PV of Costs	\$ (470,000)	\$ (621,786)	\$ (757,309)	\$ (878,311)	\$ (986,349)	\$ (1,082,812)	\$ (1,082,812)						
						Overall NPV	\$ 377,122						
						Overall ROI	34.83%						
		Project	Costs										
Yearly NPV Cash Flow	\$ (470,000)	\$ 209,821	\$ 187,341	\$ 167,268	\$ 149,347	\$ 133,345							
Overall NPV Cash Flow	\$ (470,000)	\$ (260,179)	\$ (72,838)	\$ 94,430	\$ 243,777	\$ 377,122							

Break-Even Analysis												
Happens After	2.59 Years											
		Data for	Graphs									
	0	1	2	3	4	5						
NPV of Project Monetary Benefits	0	361607	684471	972742	1230126	1459934						
NPV of Project Costs	470000	621786	757309	878311	986349	1082812						



PROJECT FEASIBILITY

Executive Summary:

We propose the integration of advanced Business Analysis Systems into FloralThymes. In doing so, the company will have enhanced operational efficiency, customer engagement, and overall business performance.

Project Description:

This project unfolds as a comprehensive initiative to implement transformative technologies within FloralThymes. The focal points include the establishment of a robust CRM system, the streamlining of inventory management processes, and the utilization of data analytics for informed decision-making. By amalgamating these elements, the project seeks to optimize the efficiency of order processing, inventory tracking, and customer interactions, ultimately contributing to an elevated standard of floral services at FloralThymes.

Market Analysis:

FloralThymes' commitment to serving a diverse customer base seeking personalized floral solutions aligns with prevailing market trends. The project anticipates a growing demand for customized floral arrangements across various occasions. By diligently analyzing competitors' strategies and staying attuned to market dynamics, FloralThymes aims to position itself as a competitive force, ready to cater to evolving customer preferences.

Technical Feasibility:

The adoption of CRM software, inventory management tools, and analytics platforms forms the cornerstone of the project's technical feasibility. This integration seeks to fortify FloralThymes' technological infrastructure, ensuring compatibility, scalability, and a seamless transition to an enhanced business analysis system.

Operational Feasibility:

To ensure a smooth transition, the project adopts a phased approach, commencing with CRM implementation in the initial quarter before incorporating subsequent modules. Allocating resources for staff training becomes pivotal, fostering a culture of proficiency and adaptability. Standardizing operational processes, particularly in order processing, inventory tracking, and customer interactions, underscores the commitment to enhanced operational efficiency within FloralThymes. Financial Feasibility:

Budgetary considerations encompass software acquisition, training programs, and potential productivity enhancements. The project anticipates a return on investment driven by increased sales resulting from improved customer engagement and streamlined operational processes. A meticulous financial analysis forms the foundation for informed decision-making, ensuring that resources are strategically allocated for optimal outcomes.

Economic Feasibility:

Beyond financial considerations, the project places a significant emphasis on its economic impact. By creating job opportunities and supporting local suppliers, FloralThymes aims to contribute meaningfully to the local economy. This multifaceted approach aligns with the shop's commitment to fostering economic growth while maintaining a sustainable business model.

Social and Environmental Feasibility:

The integration of Business Analysis Systems not only enhances customer experiences but also strengthens FloralThymes' ties with the community. Furthermore, the project incorporates sustainable practices in packaging and sourcing, aligning the flower shop with environmentally conscious initiatives.

Regulatory Compliance:

Adhering to pertinent data protection regulations and securing necessary licenses are pivotal aspects of the project. This commitment to regulatory compliance ensures that FloralThymes operates within legal frameworks, fostering trust among customers and stakeholders. Additionally, obtaining required permits for system implementation underscores the project's dedication to a comprehensive and compliant integration process.

Risk Analysis:

Identifying potential challenges, such as staff resistance, data security concerns, and system compatibility issues, forms the core of the risk analysis. Proactive measures, including extensive training programs, robust data encryption protocols, and thorough system testing, are in place to mitigate these risks. By anticipating and addressing potential obstacles, FloralThymes aims to ensure a smooth and successful integration of Business Analysis Systems.

Conclusion:

The proposed integration of Business Analysis Systems into FloralThymes emerges as a strategic move to enhance operational efficiency and customer satisfaction. Through a comprehensive feasibility analysis, it becomes evident that the project aligns with the flower shop's objectives and holds the potential to usher in a new era of technological advancement and business growth.

PROTOTYPE

INITIAL START

A gui that allows users to input text, press button, and view database

♥ FlowerThymes		ID	Product Name	Sell	er	Price	Scientific Name	Color	Size	Fragrance	Shelf Life	Instructions	Suitability	Edit	Delete
		1	Rose	Flow	er	\$ 5 per stem	Roas spp.	Red	Medium	Sweet	1 week	Keep in water	Romantic	ß	ũ
10		2	Tulip	Flower		\$ 3 per stem	Tulipa spp.	Purple	Small	Mild	S days	Keep in Water	Spring	ď	ı
Product Name Scientific Name		3	Lily	Garden	Center	\$4 per	Lilium spp.	White	Large	Fragrant	2 weeks	Avoid direct sunlight	Weddings	ß	ı
Color		4	Orchid	OrchidPa		per	Orchidaceae spp.	Purple	Varies	Mild	Several weeks	Indirect light	Gifts	ß	ū
Size		S	Sunflowe	r Sunshine	Flowers	\$ 2 per	Helianthus	Yellow	Large	None	7 days	Full sunlight	Summer	ď	ı
Fragrance		6	Daisy	LocalF		stem	Bellis	White	Small	None	7 days	Bright Light	Casual	B'	ũ
Shelf Life						per stem	perennis								
Instruction		7	Peany	LuxuryB		\$ 7 per stem	Paenia spp.	Pink	Large	Sweet	S days	S days	Weddings	B,	ī
Suitability		8	Hydrange	a GardenD	-	\$ 6 per stem	Hydrangea spp.	Blue	Large	Mild	2 weeks	Morning sun	Formal	ď	ı
Seller		9	Carnation	BouquetBoutique		\$ 2 per stem	Dianthus F caryophyllus	Red	Medium	Spicy	2 weeks	Bright Light	Celebrations	ď	ī
Create Read Update Delete All		10	Iris	ArtisticB	looms	\$ 4 per	Iris spp.	Blue	Medium	Mild	5 days	Full sun	Spring	ß	ū
₩ FlowerThymes	O-d ID				roduct	Deli		_4:4	Total	Shipping			yment	4:4	Dalaka
1	Order ID 10898543		1 d	Date 2023-	1d \$ 8	Da 202		ntity 1	Price 6.00	Address8				dit 💰	Delete
91828188	16443799		0009	01-08	\$ 9	202		6	12.00	Address9	Deli	vered	Cash [Z .	â
Customer ID				01-09		02-	15								
Order Date	27575642	C	0003	2023- 01-03	\$3	202 01-		2	8.00	Address3	Deli	vered	Cash [8	
Product ID Quantity	45284573	(0001	2023- 01-01	\$1	202 01-		5	25.00	Address1	Ship		Credit [Card	Š	<u> </u>
	51511548	C	0004	2023- 01-04	\$4	202 01-		1	10.00	Address4	Ship		Credit [Card	3	Î
Delivery Date	58751088	0	0001	2023- 01-07	\$ 7	202		3	21.00	Address7	Ship		Credit [Card	3	â
Total Price	61833515	C	0005	2023- 01-05	\$ 5	202		4	8.00	Address5	Proce	essing l	PayPal [Š	
	84717536	C	0006	2023- 01-06	\$ 6	202		2	3.00	Address6	Deli	vered	Cash [ď	â
Order Status	84717536 91828188		0006	01-06	\$ 6 \$ 10	202	30	2	3.00	Address6		oped (Credit [3	â
Shipping Address Order Status Payment Method		C		01-06		01-	30 23- -20 23-				Shiş	oped (Credit [Card		

CREATE BUTTON FUNCTION

User inputs text and presses the green create button to add to database

		¥	Flo	werTh	yme	s									+	∳ Flo	werT	hym	es					
		1												918281	188									
		Dandelions												0008										
		Dandelion spp.												0008										
		White		1 pe	r stem									2023-0	01-14									
														5				2						
		Small																						
		None												2023-0	01-16									
		1 week												10.00										
		Keep in water												Addres	ss8									
	-	Casual					_							Shippe										
	L	Beauty Flowers																						
		Create	Read	Upd	ate	Delet	te All							PayPal										
	Product			Scientific				Shelf						Creat		Read		Update		Delete All				
ID	Name	Seller	Price	Name	Color	Size	Fragrance	Life	Instructions	Suitability	Edit	Delete		Cita		read		орошк:		Delete All				
1	Rose	Flower	\$ 5 per stem	Roas spp.	Red	Medium	Sweet	1 week	Keep in water	Romantic	ď	ī	Order ID	Customer	Order Date	Product Id	Delivery Date	Quantity	Total Price	Shipping Address	Order Status	Payment Method	Edit	Delete
2	Tulip	FlawerShap	\$ 3 per stem	Tulipa spp.	Purple	Small	Mild	5 days	Keep in Water	Spring	ď	ī	10898543	0008	2023- 01-08	\$8	2023- 02-10	1	6.00	Address8	Processing	PayPal	ď	ī
3	Lily	GardenCenter	\$ 4 per stem	Lilium spp.	White	Large	Fragrant	2 weeks	Avoid direct sunlight	Weddings	ď	ī	16443799	0009	2023- 01-09	\$ 9	2023- 02-15	6	12.00	Address9	Delivered	Cash	ď	ũ
4	Orchid	OrchidParadise	\$ 10 per pot	Orchidaceae spp.	Purple	Varies	Mild	Several weeks	Indirect light	Gifts	ď	п	27575642	0003	2023- 01-03	\$3	2023- 01-15	2	8.00	Address3	Delivered	Cash	ď	ī
5	Sunflower	SunshineFlowers	\$ 2 per	Helianthus annuus	Yellow	Large	None	7 days	Full sunlight	Summer	ß	ī	45284573	0001	2023- 01-01	\$ 1	2023- 01-10	5	25.00	Address1	Shipped	Credit Card	ď	ī
6	Daisy	LocalFlorist	\$ 1.50	Bellis perennis	White	Small	None	7 days	Bright Light	Casual	ď		51511548	0004	2023- 01-04	\$ 4	2023- 01-20	1	10.00	Address4	Shipped	Credit Card	ď	ī
			per stem										58751088	0001	2023-	\$ 7	2023-	3	21.00	Address7	Shipped	Credit	ß	ī
7	Peany	LuxuryBlooms	\$ 7	Paenia spp.	Pink	Large	Sweet	5 days	5 days	Weddings	B'	ì			01-07		02-05					Card		
			per stem										61833515	0005	2023- 01-05	\$ 5	2023- 01-25	4	8.00	AddressS	Processing	PayPal	ď	ī
8	Hydrangea	GardenDelights	\$ 6 per stem	Hydrangea spp.	Blue	Large	Mild	2 weeks	Morning sun	Formal	ď	ı	84717536	0006	2023-	\$ 6	2023-	2	3.00	Address6	Delivered	Cash	ď	ā
9	Camation	BouquetBoutique	\$ 2	Dianthus	Red	Medium	Spicy	2	Bright Light	Celebrations	B.	ı			01-06		01-30							
			per stem	caryophyllus				weeks					91828188	0010	2023- 01-10	\$ 10	2023- 02-20	2	8.00	Address10	Shipped	Credit Card	ď	Ī
10	Iris	ArtisticBlooms	\$ 4 per stem	Iris spp.	Blue	Medium	Mild	5 days	Full sun	Spring	ď	ī	94451271	0002	2023- 01-02	\$ 2	2023- 01-12	3	9.00	Address2	Processing	PayPal	ß	ā

READ BUTTON FUNCTION

User clicks blue read button for the table gui to update values from database

		+	⊭ Flo	werl	Thym	es								\	Flov	werThy	/me	S						
	861891	35												12										
	Custom													Product Name										
														Scientific Name										
	Order D	late												Color		Price								
	Product	ID			Quantity									Size										
	Deliver	Date												Fragrance										
	Total Pr	ice												Shelf Life										
		g Address												Instruction										
														Suitability										
	Order S													Seller										
	Paymen	t Method												Create	Read	Upda	ite	Delet	e All					
	Create	:	Read		Update		Delete All						Product			Scientific				Shelf				
												ID 1	Name	Seller	Price S S	Name Roas spp.	Color	Size	Fragrance	Life 1 week	Instructions Keep in	Suitability	Edit	Delete
Order ID	Customer Id	Order Date	Product Id	Delivery Date	Quantity	Total Price	Shipping Address	Order Status	Payment Method	Edit	Delete	ľ	NUSC	Flower	per stem	nuas spp.	Neu	Medidili	Sweet	I WEEK	water	Kullianuc		
10898543	0008	2023- 01-08	\$8	2023- 02-10	1	6.00	Address8	Processing	PayPal	ď	ũ	2	Tulip	FlowerShop	\$ 3 per stem	Tulipa spp.	Purple	Small	Mild	5 days	Keep in Water	Spring	ß	B
16443799	0009	2023- 01-09	\$ 9	2023- 02-15	6	12.00	Address9	Delivered	Cash	ď	T	3	Lily	GardenCenter	\$ 4 per stem	Lilium spp.	White	Large	Fragrant	2 weeks	Avoid direct sunlight	Weddings	ß	Ü
27575642	0003	2023- 01-03	\$ 3	2023- 01-15	2	8.00	Address3	Delivered	Cash	ß	Till 1	4	Orchid	OrchidParadise	\$ 10 per pot	Orchidaceae spp.	Purple	Varies	Mild	Several weeks	Indirect light	Gifts	ß	B
45284573	0001	2023- 01-01	\$ 1	2023- 01-10	5	25.00	Address1	Shipped	Credit Card	B.	ū	5	Sunflower	SunshineFlowers	\$ 2 per	Helianthus annuus	Yellow	Large	None	7 days	Full sunlight	Summer	ß	B
51511548	0004	2023- 01-04	\$ 4	2023- 01-20	1	10.00	Address4	Shipped	Credit	ď	m	6	Daisy	LocalFlorist	stem	Bellis	White	Small	None	7 days	Bright Light	Casual	B.	
58751088	0001	2023-	\$ 7	2023-	3	21.00	Address7	Shipped	Credit Card	ď	ũ		Sucy	LOCALI RETAL	1.50 per stem	perennis	***************************************	21121	14016	, days	ong it og it	Cartai		-
61833515	0005	2023- 01-05	\$ 5	2023- 01-25	4	8.00	Address5	Processing	PayPal	ď	Œ	7	Peony	LuxuryBlooms	\$ 7 per stem	Paenia spp.	Pink	Large	Sweet	5 days	5 days	Weddings	ß	ï
84717536	0006	2023- 01-06	\$ 6	2023- 01-30	2	3.00	Address6	Delivered	Cash	ď	a	8	Hydrangea	GardenDelights	\$ 6 per stem	Hydrangea spp.	Blue	Large	Mild	2 weeks	Morning sun	Formal	ß	B
86189135	0008	2023- 01-14	\$ 5	2023- 01-16	2	10.00	Address8	Shipped	PayPal	ď	ā	9	Carnation	BouquetBoutique	\$ 2 per stem	Dianthus caryophyllus	Red	Medium	Spicy	2 weeks	Bright Light	Celebrations	ß	B
91828188	0010	2023- 01-10	\$ 10	2023- 02-20	2	8.00	Address10	Shipped	Credit Card	B'	Œ	10	Iris	ArtisticBlooms	\$ 4 per stem	Iris spp.	Blue	Medium	Mild	5 days	Full sun	Spring	ß	ı
94451271	0002	2023- 01-02	\$ 2	2023- 01-12	3	9.00	Address2	Processing	PayPal	ß	T	11	Dandelions	BeautyFlowers	\$ 1 per	Dandelion spp.	White	Small	None	1 week	Keep in water	Casual	ď	B

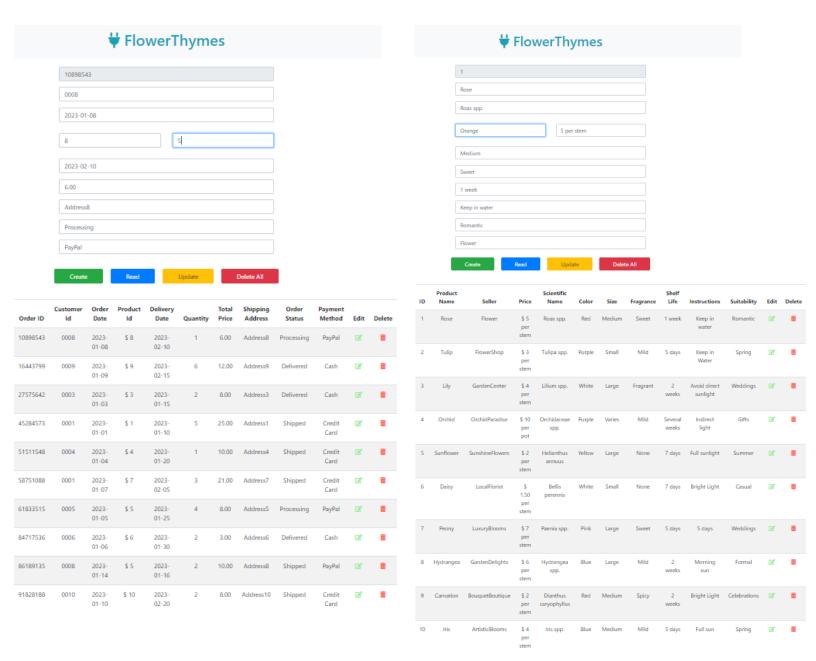
DELETE SINGLE BUTTON FUNCTION (Trash Can)

User clicks red trash can on far right side of each row to delete order from database and updates gui

		¥	Flov	werTh	yme	S									+	⊭ Flo	wer1	Γhym	es					
		ı																						
		Product Name												861891	135									
		Scientific Name												Custon	mer ID									
		Color		Price	,									Order	Date									
														Produc	+ID			Quantity						
		Size												Produc	TID			Quantity						
		ragrance												Deliver	ry Date									
		Shelf Life												Total P	rice									
		nstruction												Shippi	ng Address									
		Suitability																						
		Seller												Order	Status									
		Create	Read	Upd	ate	Delet	e All							Payme	nt Method									
	Product			Scientific				Shelf						Crea	te	Read		Update		Delete All				
ID	Name	Seller	Price	Name	Color	Size	Fragrance	Life	Instructions	Suitability	Edit	Delete						-,						
1	Rose	Flower	\$ 5 per stem	Roas spp.	Red	Medium	Sweet	1 week	Keep in water	Romantic	Z'	ī	Order ID	Customer	Order Date	Product Id	Delivery Date	Quantity	Total Price	Shipping Address	Order Status	Payment Method	Edit	Delete
2	Tulip	FlowerShop	\$ 3 per stem	Tulipa spp.	Purple	Small	Mild	5 days	Keep in Water	Spring	ď	ı	10898543	0008	2023- 01-08	\$8	2023- 02-10	1	6.00	Address8	Processing	PayPal	ď	ī
3	Lily	GardenCenter	\$ 4 per stem	Lilium spp.	White	Large	Fragrant	2 weeks	Avoid direct sunlight	Weddings	ď	ī	16443799	0009	2023- 01-09	\$ 9	2023- 02-15	6	12.00	Address9	Delivered	Cash	ď	ī
4	Orchid	OrchidParadise	\$ 10 per pot	Orchidaceae spp.	Purple	Varies	Mild	Several weeks	Indirect light	Gifts	ď	ı	27575642	0003	2023- 01-03	\$3	2023- 01-15	2	8.00	Address3	Delivered	Cash	ď	ī
5	Sunflower	SunshineFlowers	\$ 2 per stem	Helianthus annuus	Yellow	Large	None	7 days	Full sunlight	Summer	ď	T T	45284573	0001	2023- 01-01	\$1	2023- 01-10	5	25.00	Address1	Shipped	Credit Card	ď	ī
6	Daisy	LocalFlorist	\$ 1.50	Bellis perennis	White	Small	None	7 days	Bright Light	Casual	ď	ī	51511548	0004	2023- 01-04	\$ 4	2023- 01-20	1	10.00	Address4	Shipped	Credit Card	ď	ī
			per stem										58751088	0001	2023-	\$ 7	2023-	3	21.00	Address7	Shipped	Credit Card	ß	iii
7	Peany	LuxuryBlooms	\$ 7 per stem	Paenia spp.	Pink	Large	Sweet	S days	S days	Weddings	ď	ī	61833515	0005	2023-	\$ 5	2023-	4	8.00	Address5	Processing	PayPal	ď	ī
8	Hydrangea	GardenDelights	\$ 6	Hydrangea	Blue	Large	Mild	2	Morning	Formal	ß.	ī			01-05		01-25							
			per stem	spp.				weeks	sun				84717536	0006	2023- 01-06	\$ 6	2023- 01-30	2	3.00	Address6	Delivered	Cash	ß	ī
9	Carnation	BouquetBoutique	\$ 2 per stem	Dianthus caryophyllus	Red	Medium	Spicy	2 weeks	Bright Light	Celebrations	Z'	ī	86189135	0008	2023- 01-14	\$ 5	2023- 01-16	2	10.00	Address8	Shipped	PayPal	B	Ī
10	Iris	ArtisticBlooms	\$ 4 per	Iris spp.	Blue	Medium	Mild	5 days	Full sun	Spring	ď	=	91828188	0010	2023-	\$ 10	2023-	2	8.00	Address10	Shipped	Credit	ß	-

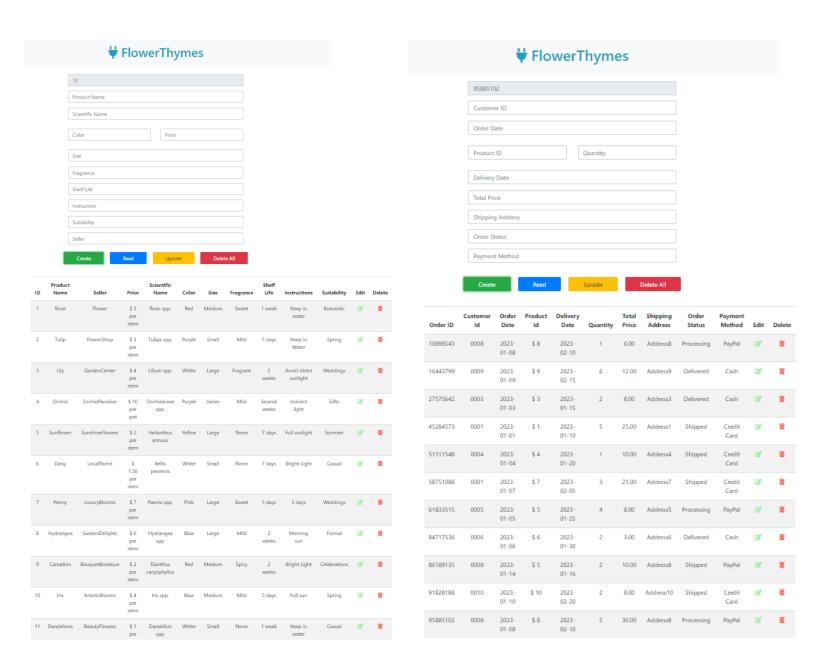
EDIT/UPDATE BUTTON FUNCTION

User clicks the edit button (green edit next to red trash can on far right side of each row) and then has the ability to edit information. When orange update button is clicked, the database is updated but not the table gui



READ BUTTON FUNCTION

User clicks blue read button to update the table gui



DELET ALL BUTTON FUNCTION

User clicks red delete all button to delete all rows in database and update table gui

1
Product Name
Scientific Name
Color Price
Size
Fragrance
Shelf Life
Instruction
Suitability
Seller
Create Read Update Delete All
Product Scientific Shelf
ID Name Seller Price Name Color Size Fragrance Life Instructions Suitability Edit Dele
↓ FlowerThymes
27901310
27901310 Customer ID Order Date
27901310 Customer ID
27901310 Customer ID Order Date
27901310 Customer ID Order Date Product ID Quantity
27901310 Customer ID Order Date Product ID Quantity Delivery Date Total Price
27901310 Customer ID Order Date Product ID Quantity Delivery Date Total Price Shipping Address
27901310 Customer ID Order Date Product ID Quantity Delivery Date Total Price
27901310 Customer ID Order Date Product ID Quantity Delivery Date Total Price Shipping Address
27901310 Customer ID Order Date Product ID Quantity Delivery Date Total Price Shipping Address Order Status

ANALYZE TABLES BUTTON FUNCTION

User clicks purple analyze button to analyze given tables and view a line graph. It will also analyze any other databases and tables



