

PROPOSAL
FOR A
POINT OF SALES INFORMATION SYSTEM DEVELOPMENT PROJECT
REQUESTED BY
MR SALAD

COMPILED BY:

Group 10 - "Leaf Green IT Solutions"

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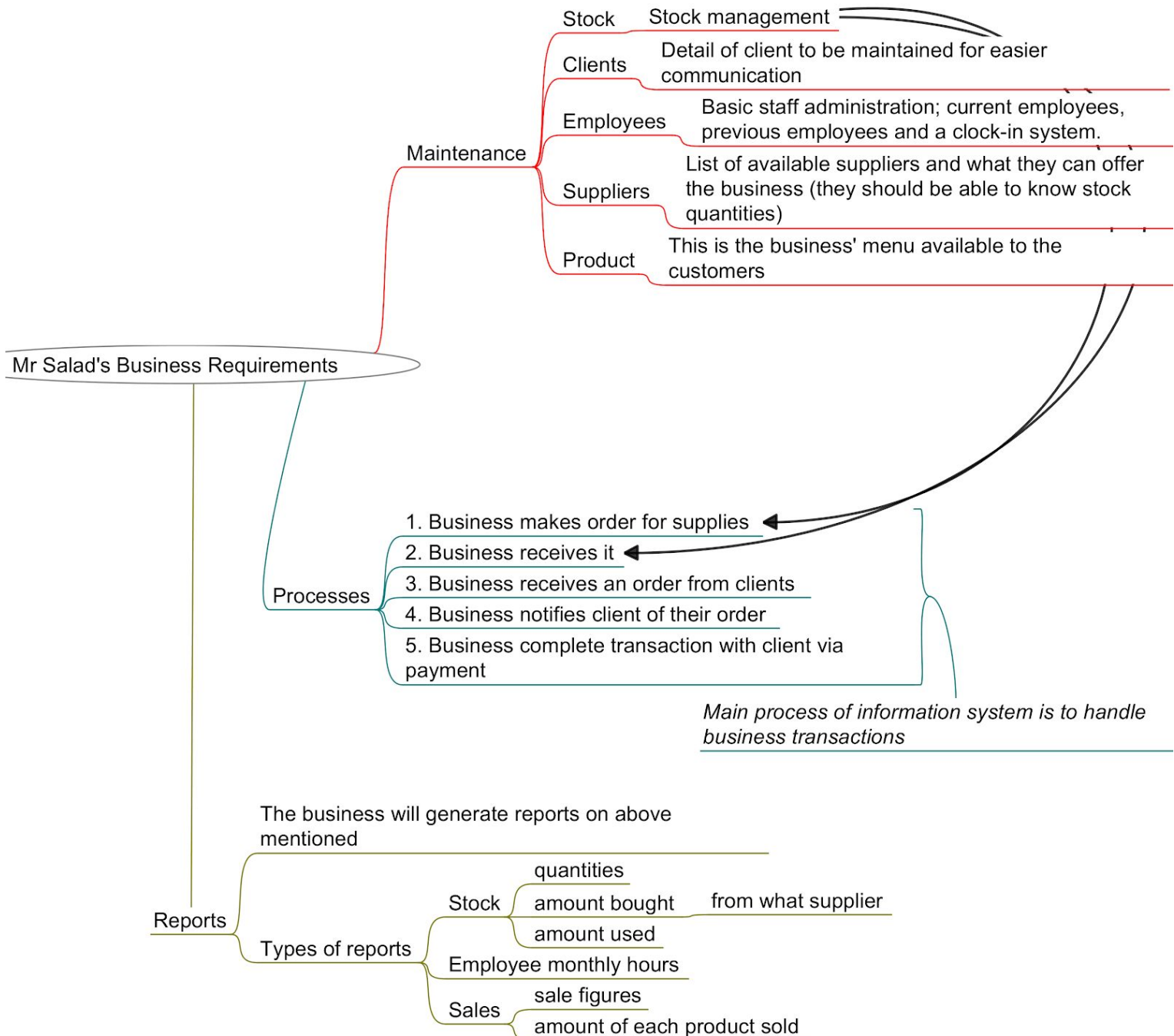
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I SCOPE

The business deals with the sales of baked goods, homemade meals and platters for events. Mr. Salad's owner has requested for six months of analogue information of business to be transferred to the new information system for fluent integration. The information system will aim to provide the following business requirements in regards to their services provided to the consumer:



DETAILED BUSINESS REQUIREMENTS

MAINTENANCE:

- Stock management
 - The addition and removal of stock, based on customer sales and stock orders.
- Client management
 - Details regarding client contact information, as well as previous purchase orders.
- Employees
 - Clock-in system for staff.
 - Current staff in service details.
 - Previous staff details.
- Suppliers
 - Supplier details.
 - Supplier stock costs.
- Product
 - Keeping current ordering menu updated and available to consumer.

BUSINESS PROCESSES - TRANSACTIONAL ORIENTED:

- Ordering of stock.
 - Transaction between business and supplier recorded.
- Receiving of stock.
 - Updating stock amounts.
- Receiving order from client.
 - Updating stock amounts.
- Notifying client of finished order.
- Completing the transaction via payment.
 - Transaction between business and client recorded.

REPORTS GENERATED

- Stock
 - Realtime amounts after any sales or purchases.
 - Complete list of transactions occurred for stock within a certain time period (day, week, month and year).
- Staff
 - Monthly hours per staff member.
 - Wage calculation in terms of hours worked.
- Sales
 - Complete list of transactions occurred within a certain time period (day, week, month and year).

A JUSTIFICATION FOR PROJECT

After being approached by Mr Salad, they have raised the following concerns for their future business practise:

1. No existing information system is in place so all manual systems will have to be supplemented by an information system to ensure business efficiency and adaptability in the future.
2. As a result of the lack of automated support for core business processes, e.g. the functionality to manage orders, deliveries and sales, are not being executed efficiently and time management has posed as a problem.
3. With the old system hard copies were the only feasible option. However, with the new system all records can be securely backed up onto multiple storage devices and be readily available if the main storage system fails. This means less physical space is required for business records.

II PROPOSED COMPUTER-BASED SOLUTION

A IDENTIFIED BUSINESS OPPORTUNITIES

- Social media presence opportunity as there are no marketing schemes.
- Opportunity to increase efficiency for communication between customers, suppliers and Mr Salad via a website.
- Better tools for the managerial staff to work more effectively.
- Increased security on stock control.

B GOALS

- To provide complete overview of all transactions.
- Creating a time clocking system to ensure that the working hours are accurate and precise for employees.
- Improving the stock management.
- Creating a user friendly website that allows for orders to be placed and stock needed for the final products.

C PRIORITIES FOR THE SOLUTION

- Support for at least all the core business requirements.
- Flexibility to adapt to future changes in business, for example; development of a web page, online orders and integration of social media platforms.
- Readily available information for decision making, for example; comparing prices of wholesalers to provide stock at the best price.

D RISKS IDENTIFIED

- Inflexibility resulting in difficulty to adapt to business changes.
- Unforeseen complications resulting in compromising of schedule.

E OPTIMAL SOLUTION AND ALTERNATIVES

- OPTIMAL SOLUTION CHOSEN:

IN-HOUSE SOFTWARE DEVELOPMENT

After exploring all options in-house development covered all the necessary conditions for implementing an information system that will serve all needs of business and provide opportunity for growth in the future of the information system to extend business.

- ALTERNATIVES EXPLORED:

OPTIMIZE and EXTEND THE EXISTING ENVIRONMENT

Unfortunately the business current system is not an information system, thus this type of solution will not be applicable to project.

COMMERCIALLY OF THE SHELF SOFTWARE

The available COTS software on the market did not meet all the requirements provided by the business owner. Neither did this software provide the opportunity to expand/grow information system in the future. COTS software available were too expensive for business as well. Prices for licenses and zero flexibility made this sort of solution not applicable for future sustainability.

III PROPOSED SCHEDULE

SEQUENTIAL DEVELOPMENT PROCESS WILL FOLLOWED:

PROJECT STEPS	DELIVERABLES	HOURS NEEDED FOR COMPLETION	EXPECTED COMPLETION DATE
1 SCOPE DEFINITION	To be documented in Project Proposal.	2 WEEKS: <i>20 hours</i>	2018-03-01
2 PROBLEM ANALYSIS	Justification, proposed solution, business opportunities, risks, schedule and budget to be documented in Project Proposal.	2 WEEKS: <i>24 hours</i>	
3 REQUIREMENT ANALYSIS	Business requirements to be documented.	4 WEEKS <i>64 hours</i>	2018-03-26
4 LOGICAL DESIGN	Logical system modules and specifications to be	2 WEEKS <i>32 hours</i>	2018-04-20

	documented.		To be reviewed on second semester of the year to ensure quality development of project.
5 DECISION ANALYSIS	Documentation with evaluation for each candidate solution in terms of technical-, operational-, economic-, schedule- and risk- feasibility. Best candidate solution to be chosen and continuation of project.	2 WEEKS <i>32 hours</i>	
6 PHYSICAL DESIGN AND INTEGRATION	Physical design models, detail specifications, prototypes and redesigned business processes	1-2 WEEKS <i>24 hours to 32 hours</i>	
7 CONSTRUCTION AND TESTING	Database, Custom-built software, User Interface and test plan.	3-4 WEEKS <i>48 hours to 64 hours</i>	
8 INSTALLATION AND DELIVERY	An operational system, operation manual, documented quality review and updated logical system models.	2 WEEKS <i>32 hours</i>	

IV PROPOSED BUDGET

A LABOUR

Will include consultation fee and labour throughout the project determined on proposed year basis.

B TECHNOLOGY AND PHYSICAL HARDWARE

All custom built software will be licensed as Open-Source software, source will be made available to the business and public. Other software to be used will be Open-Source based. This lowers cost of software and ensure optimal adaptation for future information systems for the business. Existing computer hardware will be used to implement the information system.

C SUPPORT PLAN:

We Leaf Green IT Solutions promise to maintain the newly implemented information system for a two month period after the installation.

D TOTAL ESTIMATED COSTS

	Calculations	Sub-Total
Labour	In-Depth Consultation = R200,00 x 44 hours Labour = 50% of 4 people x R200,00 x 232 (min hours) or 256 (max hours)	R 8 800,00 + R 92 800,00 or R 102 400,00
Technology	Initial website service rental = R2 000,00 (R1000,00 per year rental fee.)	R 2 000,00
Total estimated cost	R 103 600, 00 (minimum) - R 113 200,00	

V RESOURCES

The internal human resources for the project:

System Owner (Sponsor): Ms Ronel Fritze

Project Manage/System Analyst: Coenraad Human

System Analysts: Corné Kooij, Pieter Brand, Savannah Fritze

We require of the business to make system users (employees and management) available as needed during business hours (maximum 20% of hours: 55 - 60 hours) over the period project for test data to be implemented into a prototype.