***FEASIBILITY STUDY***

# The Group

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# The Client

*Sidra Medical Store by Dr. Hashmat Ali*

# The Task to be Undertaken:

*This project is an interactive software-based system application to provide a working inventory and billing system for a medical store. This system will provide the user a complete interaction with the inventory data of the store and then provide a billing statement when someone purchases anything.*

*The main tasks of this system will be: maintaining a functioning database for the inventory system which can store, delete and update information, then an interactive GUI for the user in order to easily work with the system and printing out a proper billing statement as an output.*

# Process To Be Followed:

*In order to make this project we will be using iterative refinement method. The system will evolve better if we use the iterative approach and it will be more feasible for the developers as well as the client. Using iterative approach, we can take feedback from the client more frequently in order to develop a system adequate to the requirements of the client. Also by using this methodology, there is a fair chance that the end product will satisfy the client without causing any end time tweaks and delay.*

# A Preliminary Requirements Analysis:

* ***Deliverables:***

***Management Deliverables:***

* ***Requirement Analysis:***

*A document to that defines all the formal requirements of the project, both functional and non-functional. This deliverable ensure that the group is working on a system that will be according to the requirement of the client. This deliverable also allows to client to modify or update the items of the system that the developer side failed to understand or missed out before delivering the final project.*

* ***Design Document:***

*A document to shows the internal design of the system being developed. Through this document the group will be able to visually show the client of what the project will be like working wise. For this deliverable we will be designing using any modeling tool such as UML, data-flow diagram, use-case diagram or ERD diagram, to help show the client the working of the project more efficiently, based on the requirement analysis.*

* ***Source Code:***

*A document, presentation along with the source code of the completed project. This deliverable will declare the end of the project. The group will deliver the final implementation based on the requirements specified and the design developed in previous stages. The system would have been tested thoroughly with unit tests and a final acceptance test and would be ready to be delivered to the client.*

***Technical Deliverables:***

* *A database with the required tables to support the inventory system. A database will store all the information related to the medicines and will retrieve information when commanded, will also update the information when required and will also delete unnecessary information.*
* *An interactive admin interface to add, modify, delete and search from the inventory. A webpage designed to allow the admin (out client) of the system to add information to the database.*
* *A billing statement that will show the sub total of the amount payable and the item that one is purchasing.*

# Outline Plan (Principal activities and Milestones)

* *Milestone 1 (August 17 , 2020) – Requirements Analysis (draft). An initial draft*

*of the requirements analysis should be done as Milestone 1. This should come*

*after a formal requirements gathering meeting with the Client.*

* *Milestone 2 (August 20, 2020) – Requirements Analysis (final). The final*

*draft of the requirements analysis should be done for Milestone 2. In addition,*

*a presentation will be prepared as a part of this milestone.*

* *Milestone 3 (August 24, 2020) – Software Architecture and Design (draft). An*

*initial draft of the software architecture and design should be done.*

*A meeting with the Client should follow Milestone 3 to get feedback on the*

*design of the system.*

* *Milestone 4 (August 27, 2020) – Software Architecture and Design (final). A*

*final draft of the software architecture and design document should be done.*

*A presentation should be prepared for the Client.*

* *Milestone 5 (August 30, 2020) – Testing, Debugging and Integration. The system*

*needs to be well-tested, debugged at this milestone. Also, once the system has*

*passed the acceptance test, it needs to be integrated to the actual production*

*system for this milestone.*

* *Milestone 6 (September 03, 2020) – Project Deadline. The project source code*

*should be handed over to the Client for the final milestone. A presentation is*

*presented to the Client.*

# Visibility Plan:

# The team will prepare a formal document that will detail the client’s requirements for the software. The client will categorize these requirements into required, desired, and optional features. After the document is approved by the client, the team will design the initial user interface for the client’s evaluation.

# The Group will conduct meetings with the Client. A report will be issued to the Client at the end of every step to ensure client’s needs and to avoid any miscommunication in the requirements, e.g. design, functional specification etc. Any additional communication will be done via email or through other collaboration tools such as document sharing and the source code will be stored on GitHub. All source code will be documented carefully before being submitted to the repository. The internal communication within the team would also take place through different platforms (Zoom, mail etc).

# Risk Analysis:

# Time: Our project needs to be finished within the semester and so we have only few weeks left for project submission which introduces a risk that the system may not be completed within time and also according to clients needs and requirements.

# Resources: For project development we need to have laptops in proper working condition as well as the software on which we need to work. The internet connection should also to be efficient.

# Functionalities: The project must fulfill client’s needs, the design or the interface and must also include all the features he wants.

# Members: We are a group of 4 members and have basic knowledge about relevant web technologies resulting in a slow implementation.

# Fallback Plan:

# Our fallback plan is to create backup on each group member’s device and also if the device crashes we will have our backup also on GitHub repository so we can have access anytime and online through any device. In case if we run out of time, we can hire interns so that we may have our project completed on time.

# Probable Technical Requirements

# Database:

# We will provide the client with the database schema or a blueprint of how the database is constructed and helps in avoiding conflict.

# Accessibility:

# The system must be quickly accessible to both, the admin and the user. For gaining entry into the system the admin should register user info and the user should be able to use login & passwords for gaining access to the system.

# System Requirement:

# The user will be able to log into the system through any device.

# Functionalities:

# Our team is successful in making the system where we can update, insert and delete the item as per the requirement. This application also provides a simple report on daily basis to know the daily sales and purchase details.

# Transaction Management:

# There is proper and easy transaction management of inventory. All transaction have specific entry date along with quantity and rate.

# Business Considerations:

# Inventory management is an extremely important part of running a successful business in terms of theft, damage, time, miscounting, incorrect units of measures and other issues. Instead of manual working, our system is automated which would save time and would also increase correctness and also helps in increased productivity. Our system will allow up-to-date stock levels to be available to the user in real time. This will lead in better customer retention. With our inventory management system you can avoid and reduce the risk of overstocking thus enabling successful cost control of operations.

# Conclusion:

# From the results of the feasibility study, the team finds that the Medical store Inventory & billing system project is feasible in terms of technicality, skill of team members, and time. Given the time constraint of one summer semester,

# the team believes the scope of the project is manageable and that the client’s requirements can be satisfactorily fulfilled upon system completion.

# The team members also possess the adequate skills to implement the system and are familiar with hardware and software that may be used in this project.

# The conclusion of the feasibility report is to go ahead with this software development project.

***SURVEY***

# Ayesha Ali:

# What kind of GUI do you require for this project?

# Simple yet classy

# Vibrant and attractive

# Black and white

# Others, please specify\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# What information related to the medicine would you like to print on the billing statement?

# Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# How many medicines data would you like to store in the project data?

# Under 500

# Above 500

# Under 1000

# Above 1000

# Others, please specify\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# How many admins would be allowed to access this system? \_\_\_\_\_\_\_\_\_\_\_\_

# If there was some unfortunate delay in the delivery of project, would it be bearable for you?

# Yes

# No

# M.Furqan Ansari:

# Do you already have a similar project to this new one? if yes, please specify

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# What rights would you like to provide to the admin and other who are accessible to the product?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Do you have any such technical staff member who can easily learn to work with this situation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Would you like to save the details of the transaction within the database of the system?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# What would be your budget?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Shaista :

# How are the items recorded in the system?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# How are inventory needs communicated to the supplier? (fax, phone, mail)

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Are receiving, issuing, accounting and storing responsibilities properly segregated?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Do you use any technology (i.e. bar codes, EDI, RFID) for inventory control?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# What results from using inventory management software?

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# Haris:

# May I see the annual sales report on this software?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Are there process controls in place that would prevent the placement of and unauthorized purchase/sell order?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Does anyone monitor purchasing activities?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Do you utilize bar coding or scanning equipments in this system?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# What is the process to create, manage and close an order?

# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_