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"Stock Management System"

Project Proposal and Plan

1. Introduction

There are already several applications out there that help you find to manage stocks. There are not however, any System that not only helps you find stocks across the globe, but this finds you stock from different location and helps to manage them.

This will be the purpose of the "Managing Stocks" belonging to different locations across the globe. It will be a system that helps you buy by location, sell by location, find by location, Indicate stock by location, monitor favorites by any location, represents stock data's graphical, Stock alerter , instant updates of stock.

"Stock Management System" will leverage existing technologies in order to add the new dimension of Stocking. The creation of "Stock Management System" will involve several developmental tiers: UI, User Management System, Database, and Web Screens.

2. Project Scope and Objectives

"Stock Management System" will function first by customer's creating an account in the application. This account creation will involve communicating with a web server that houses a database that maintains the customer's information. Once the customer has an account, several inputs relating to stocks are obtained. Further his personal details are recorded in the database and can be used for stocking in future. Stocks will be queried through the Oracle and Java technologies and represented to the User with best GUI's. From there a customer can select a stock and choose the further business actions he wants to execute. Each execution can be pulled from the stock tables. Stocks are instantly updated by build in Oracle jobs which synchronizes the stock activity in the market there on providing the most updated stock details.

3. Project Details:

1. Website:
    - The home page of the website displays all the updated stock values of different companies.
    - The page includes a graphical representation of the variations in the stock market of every company.
    - To make a transaction, the webpage directs the user to a login page or to register for a new account.
    - The website shows the stocks activity every time the page gets refreshed.

2. User account:
    - Every new user has to register in order to make any transaction.
    - The database will fetch an updated balance of the amount invested by the account holder in different stocks.
    - The account holder will have the details of all the stocks purchased earlier, with updated share value.
    - The account shows the invoice history of the transactions made by the user till date.
    - The account holder can add a set of desired companies into his wish list and set up a stock indicator to a value for monitoring the share values from his wish list.

3. Making a transaction:
    - The account holder can buy or sell stocks.
    - Initially, the account holder must maintain a minimum balance in his account to make a transaction.
    - While making a transaction, if the available balance is not sufficient, the account holder should provide the details of his credit/debit card for the number of shares that he wants to buy/sell.
    - The database updates this record into the account with the new balance.

4. Database:
    - The database holds a table of various companies and their stock values which changes dynamically.
    - The stock history shows the opening and closing price of the share and its peak value for the day.
    - The database holds the details of all the registered users.
    - The database maintains records of the purchases, balance, and credit history of different account holders.

4. Project Resources

1. Mohamed Zakriea Niyaz
2. Jude Nishanth Wilfred
3. Divya Arveni
4. Haritha

5. Software

1. **Java** - Java is an object-oriented programming language developed by Sun Microsystems. Java is a platform-independent, multi-threaded programming environment designed for creating programs and applications for the Internet and Intranets.

2. **JavaScript** - JavaScript is a scripting language developed by Netscape Communications designed for developing client and server Internet applications. Netscape Navigator is designed to interpret JavaScript embedded into Web pages. JavaScript is independent of Sun Microsystem's Java language.

3. **Spring** - Spring is the most popular application development framework for enterprise Java. It is used to create high performing, easily testable, reusable code without any lock-in

4. **Oracle** - The Oracle Database (commonly referred to as Oracle RDBMS or simply as Oracle) is an object-relational database management system (ORDBMS). It stores data logically in the form of tablespaces and physically in the form of data files ("datafiles").

5. **Pl-sql –** This is a Oracle commands which will be used to provide a flexible database activity in order to promote best achievements in obtaining a elegant working system.

6. Special Resources

- Wensheng Wu – Feedback, Consultant
- Tingting Zhong – Feedback,Consultant

7. Entity Relationship Diagram