CS 157A Intro to Database Management Systems

Project Data Model & DB Design Document

Project Title: Stock Data Aggregation Web-App

TEAM 34

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**ER-Model**

For our Entity-Relationship Model diagram, we used red to represent entities, blue for attributes and green for relationships. As it shown on Figure 1 below.

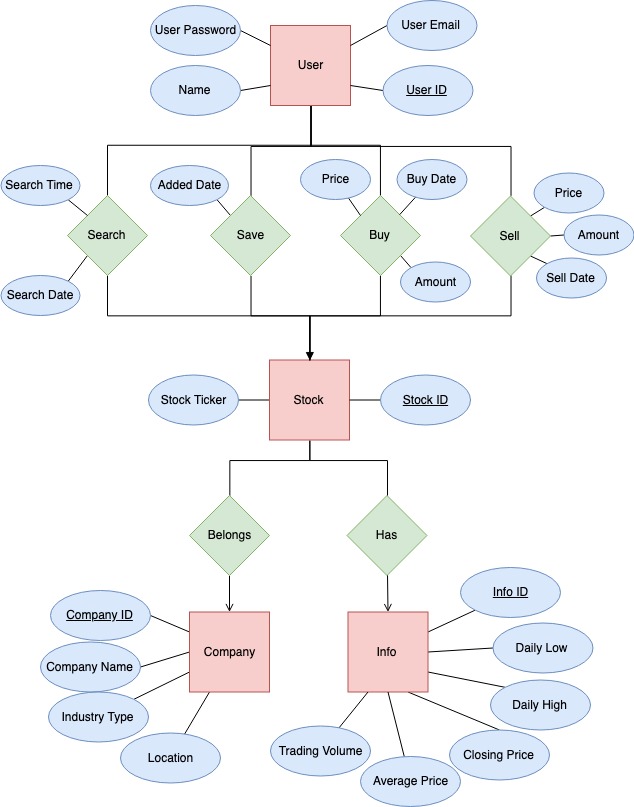


Figure 1. ER-Model

**Table**

Table 1) User (UserID, Name, User Email, User Password)

There are many users of our application, and this table is an example of how that information would be stored.

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Table 2) User Search (StockID, Search Time, Search Date)

From each user’s search history list, each stock will have a timestamp of when the user have searched for the search via the search bar.

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Table 3) User Save (StockID, Added Date)

From each user’s saved list, each stock has a Stock ID and a timestamp of when it was saved to the user’s favorite list.

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Table 4) User Buy (StockID, Price, Buy Date, Amount)

For Buy relationship, each stock has a Stock ID and a timestamp of when it was bought, the Stock price, the date and the amount the user bought.

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Table 5) User Sell (StockID, Price, Sell Date, Amount)

For Sell relationship, each stock has a Stock ID and a timestamp of when it was sold, the Stock price, the date and the amount the user sold.

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Table 6) Stock (StockID, Stock Ticker)

Each Stock has a table called information associated with it, Stock ID is again the primary key of the relationship.

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Table 7) Stock Belongs(Company)

For Belongs relationship, each Stock belongs to a company.

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Table 8) Stock has (Info)

For has relationship, each Stock has certain information.

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Table 9) Company(CompanyID, Company Name, Industry Type, Location)

Each Company has Company Name, Industry Type, and Location.

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Table 10) Info(InfoID, Daily Low, Daily High, Closing Price, Average Price, Trading Volume)

Each Info has Daily Low, Daily High, Closing Price, Average Price, Trading Volume)

