**UNDERSTANDING THE PROBLEM**

The aim of our project lies in comprehending the problem and defining our objectives. We aim to construct a database for prospective customers who are considering subscribing to fund houses. These fund houses manage various funds, each investing in a multitude of stocks. Our goal is to provide our users with a wealth of data and insights, assisting them in making informed decisions about which funds to invest in and the amount to allocate to each.

To achieve this, we identify various entities and their attributes, and establish relationships among these entities using an Entity-Relationship (ER) Diagram. This diagram serves as a blueprint for our database creation, ensuring a structured and efficient design. By doing so, we strive to empower our users with the necessary tools to navigate the complex world of investment, thereby aligning with our mission of facilitating informed financial decision-making.

* **Identifying The Entities:**

**Fund Houses**: [Fund houses, also known as Asset Management Companies (AMCs), are organizations that pool money from investors and invest it into various financial instruments like equities, mutual funds, and securities1](https://groww.in/p/mutual-fund-house). [These companies make investment based on various market conditions and risks.](https://groww.in/p/mutual-fund-house)

**Funds**: [In the context of fund houses, funds refer to the pooled money from multiple investors that is set aside for investment](https://www.etmoney.com/mutual-funds/fund-houses). [These funds are managed by the fund houses or Asset Management Companies (AMCs) and are invested in various financial instruments like equities, mutual funds, securities, etc](https://www.etmoney.com/mutual-funds/fund-houses).

**Stocks**: [In the context of fund houses and funds, stocks represent the individual shares of a company that are available for investment](https://groww.in/blog/top-stocks-bought-and-sold-by-mutual-funds). [Fund houses, through their various funds, invest in these stocks based on extensive research and analysis](https://groww.in/blog/top-stocks-bought-and-sold-by-mutual-funds). [The fund managers, employed by the fund houses, select stocks to invest in based on market trends, macroeconomic and microeconomic factors, and other relevant information](https://groww.in/blog/top-stocks-bought-and-sold-by-mutual-funds).

**Users**: In the context of fund houses, funds, and stocks, users or customers are individuals or institutions who invest their money with the aim of earning returns. These users subscribe to fund houses and invest in their funds. The funds, managed by the fund houses, are invested in various stocks. The performance of these stocks directly impacts the returns of the funds and, consequently, the returns of the users.

* **Identifying the relationships:**

We have 3 different relationships between the entities. Namely:

1. Users SUBSCRIBING to fund houses.
2. Fund houses MANAGING various funds.
3. Funds in turn have various stocks to their name to which they INVEST.

* **Identifying the Attributes:**

Fund Houses:

1. Fund House Name
2. Fund House ID
3. Profit/Loss Ratio
4. Market Rating
5. Category

Users:

1. Name
2. PAN
3. First Name
4. Last Name
5. Age
6. Customer ID
7. Subscribed Funds

Funds:

1. Fund ID
2. Name Of Fund
3. Fund Size
4. Risk
5. Rating
6. Returns

Stocks

1. Name Of Stock
2. Stock ID
3. Sector
4. Value
5. Quantity