**Ideation Phase**

**Problem Statement**

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| Team ID | PNP2022TMID07554 |
| Project Name | Global Sales Data Analytics |

**Problem Statement:**

As we know, the demand for accountants is rising so high as everyone in the country is accountable for their earnings and liabilities, and as a responsible citizen, everyone is required to pay his or her tax within the stipulated time period.

People whose salaries fall within a certain range of non-taxable income and whose income falls within a specific range of income can file their own IT returns.

But for the majority of business people or those who acquire more income and have done more transactions than the limit in a month, it is difficult to manage and file the income tax returns by themselves, so they are in desperate need of an accountant.

As a result, accountants with a high accuracy rate have been in huge demand in recent times, and it is also hard to find the right person who is actively involved and makes corrections to reduce most of the taxes and who proposes the best way of reducing the taxes, though their charges are very high.

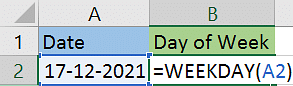
1. Explain the Type I and Type II errors in Statistics?

In Hypothesis testing, a Type I error occurs when the null hypothesis is rejected even if it is true. It is also known as a false positive.

A Type II error occurs when the null hypothesis is not rejected, even if it is false. It is also known as a false negative.

2.What is the function to find the day of the week for a particular date value?

The get the day of the week, you can use the WEEKDAY() function.



### 3. What is the difference between COUNT, COUNTA, COUNTBLANK, and COUNTIF in Excel?

* COUNT function returns the count of numeric cells in a range
* COUNTA function counts the non-blank cells in a range
* COUNTBLANK function gives the count of blank cells in a range
* COUNTIF function returns the count of values by checking a given condition

4. How do you make a dropdown list in MS Excel?

* First, click on the Data tab that is present in the ribbon.
* Under the Data Tools group, select Data Validation.
* Then navigate to Settings > Allow > List.
* Select the source you want to provide as a list array.

5.What are the different types of sampling techniques used by data analysts?

Sampling is a statistical method to select a subset of data from an entire dataset (population) to estimate the characteristics of the whole population.

There are majorly five types of sampling methods:

* Simple random sampling
* Systematic sampling
* Cluster sampling
* Stratified sampling
* Judgmental or purposive sampling