Optimization

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Optimization

Optimization is the process of modifying a software system to make some aspect of it work more efficiently or use fewer resources. The goal of optimization is to improve the behavior of a correct program so that it also meets customer needs for speed, throughput, memory footprint, power consumption, and so on. Optimization is thus as important to the development process as coding features is.

Optimization Types

Optimization is done by several ways, but the two important types of optimization is the **storage efficient optimization** and **time efficient optimization**.

Storage efficiency – refers to the usage of less system resources

Time efficiency – refers to the reduction of time consumed for each process in the application

Optimization in the application developed

Storage efficiency

The application uses many features that are obtained from the URL. These features are obtained by different methods and returned. Thus, when the features are obtained and the result of the fraudulence is sent, the memory used by each function and the variables are destroyed. No unnecessary variables are used to store unnecessary information. Thereby using less storage and making the application **'Storage Efficient'**.

Time efficiency

Each of the functions that returns the result of fraudulence of the website has been written in a way that uses minimum lines of code, did not make any unnecessary calls to other functions. Thereby making the application **'Time Efficient'**. Further improvement can be done for time complexity by using the concept of **'Multithreading'** in which multiple threads can be used execute multiple functions to obtain fraudulence result at the same time.