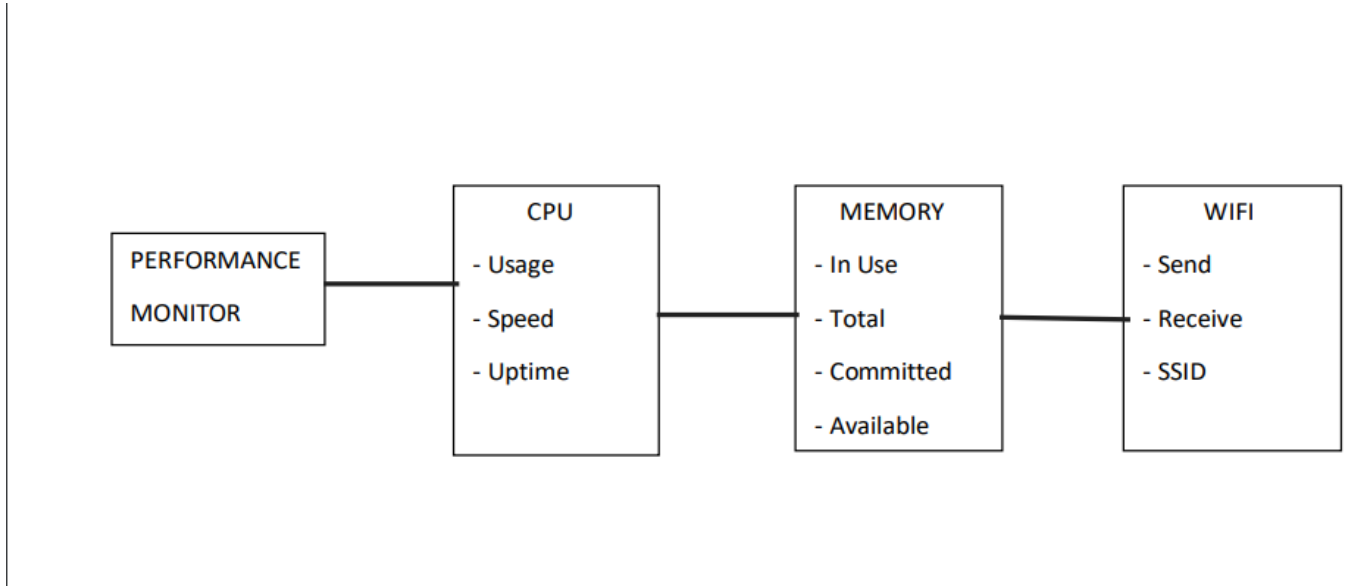


PROJECT DESIGN

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CLASS DIAGRAM:



CLASS DIAGRAM EXPLANATION:

The class diagram represents the design of a performance monitor system. It shows the components and subcomponents of the performance monitor and the relationships between them. Here's a detailed explanation of the components and relationships in the class diagram:

Performance Monitor :

- The Performance Monitor class is the main class that represents the performance monitor system. It is the parent class that holds all the other components.
- It is associated with the CPU, Memory and WIFI classes through a Has-A relationship, which means that the performance monitor has these components.

CPU:

- The CPU class represents the central processing unit of the computer system.
- It has the following attributes:
 1. Utilization represents the percentage of the CPU's capacity that is being used.
 2. Speed represents the speed of the CPU in MHz or GHz.
 3. Processes represent the number of processes currently being executed by the CPU.
 4. Threads represent the number of threads currently being executed by the CPU.
 5. Handles represent the number of handles currently open in the system.

6. UpTime represents the amount of time the CPU has been running since it was last started.

Memory:

- The Memory class represents the memory of the computer system.
- It has the following attributes:
 1. InUse represents the amount of memory currently being used
 2. Available represents the amount of memory available for use.
 3. committed represents the amount of memory currently committed to the system.
 4. cached represents the amount of memory currently being used as cache.
 5. pagedPool represents the size of the paged pool, a portion of the system's memory used for storing pages of memory.
 6. nonPagedPool represents the size of the non-paged pool, a portion of the system's memory used for storing objects that cannot be paged to disk.
- It is associated with the Disk class through an aggregation relationship, which means that the Memory class has a Disk class as a component.

WIFI:

- The WIFI class represents the wireless network interface of the computer system.
- It has the following attributes:
 1. send represents the amount of data being sent over the WIFI network.
 2. receive represents the amount of data being received over the WIFI network.