


Singleton Design Pattern

Definition

- Define a class that has only one instance and provides a global point of access that instance.

Requirements

- One and only one instance
 - Global access
 - No ownership
 - Lazy initialization
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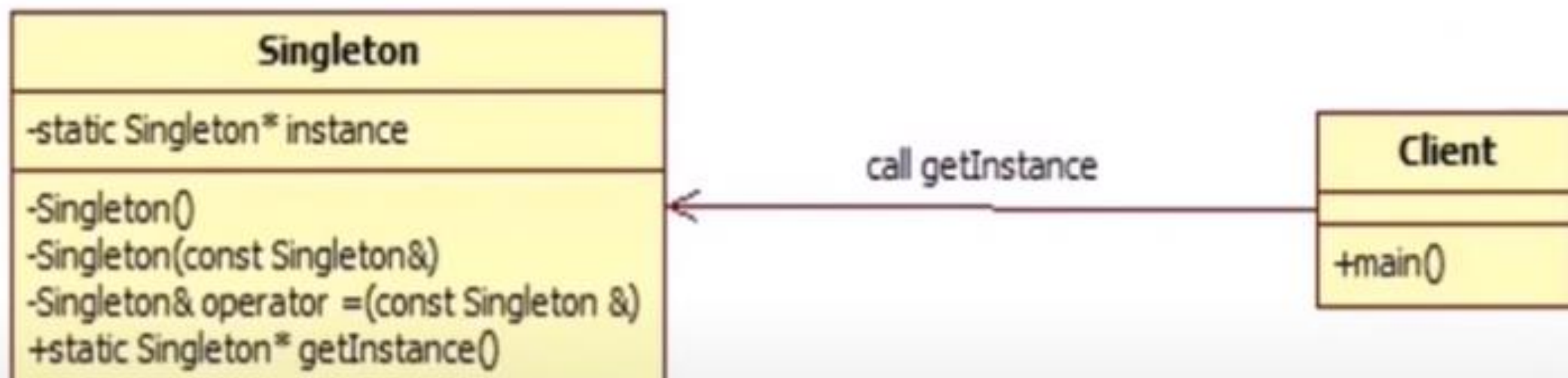
Advantages

- Save memory
 - Only one is required so why to create so many.
- Single access point
 - Logger, database connection.
- Flexibility
 - Change anytime you want to.

Usage

- Multithreaded
 - threadpool
- Database application
 - logging
- Configuration Settings
 - game setting, application setting, etc.

UML Diagram



How to create

- To create singleton class we must have
 - Static member
 - Private constructor
 - Static function

