Subject: Re: C++ templated class referencing each other Posted by Lance on Sun, 11 Oct 2020 02:36:00 GMT

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Notice that I essentially put everything in the same header file (equivalently).

Also, if your can guarantee that ComponentManager Will be the first member variable (because why-not and you should put a static_assert to avoid accidently add some other member variable in front it subsequently), you can probably save the Object& obj; member variable in the ComponentManager class. Simply define it like:

```
class Object;

class ComponentManager{
   public:
        ComponentManager(){}

        template <class T> T& CreateComponent(bool active, int position);

        /*
        Many templated function that force me to write declaration in this .h file
        */
        private:
        Object& object(){
            return *reinterpret_cast<Object*>(this);
        }
};
```

And change other part of your code accordingly.

PS: If your Object class is virtual, some compiler might put vtable at this. In this case, above hack will be problematic. I will consider to let Object to privately inherit from ComponentManager.