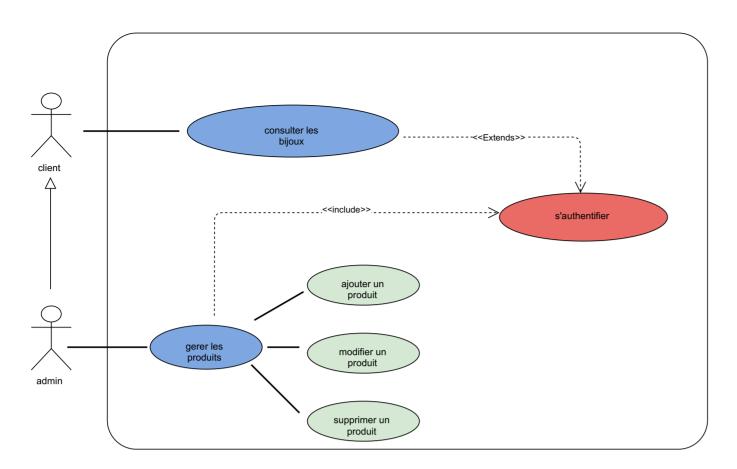
## diagramme de cas d'utilisation



## diagramme de classe:

