4. Consider a module management system that shows student the recourses of attending courses.

* + Users require a valid **userID** and **password** to access the system services.
  + Users login to the system and access the system services through a web browser.
  + A web server authenticates user logins and facilitates access to services.
  + Access to the system services is based on the permissions assigned to users.

The tasks:

Use the **ball and socket** notation to illustrate the sub-system interfaces

Identify possible operations, input and output parameters for the interfaces

考虑一个模块管理系统，它向学生展示参加课程的资源。

用户需要有效的用户id和密码才能访问系统服务。

用户通过浏览器登录系统，访问系统服务。

web服务器对用户的登录进行认证，方便用户访问服务。

对系统服务的访问基于分配给用户的权限。

用球套表示法来说明子系统接口

识别接口的可能操作、输入和输出参数