1. Deployment View

The deployment view of the architecture describes the various physical nodes for the most typical platform configurations, as well as the allocation of tasks (from the Process View) to the physical nodes.

This section is organized by physical network configuration; each such configuration is illustrated by a deployment diagram, followed by a mapping of processes to each processor.

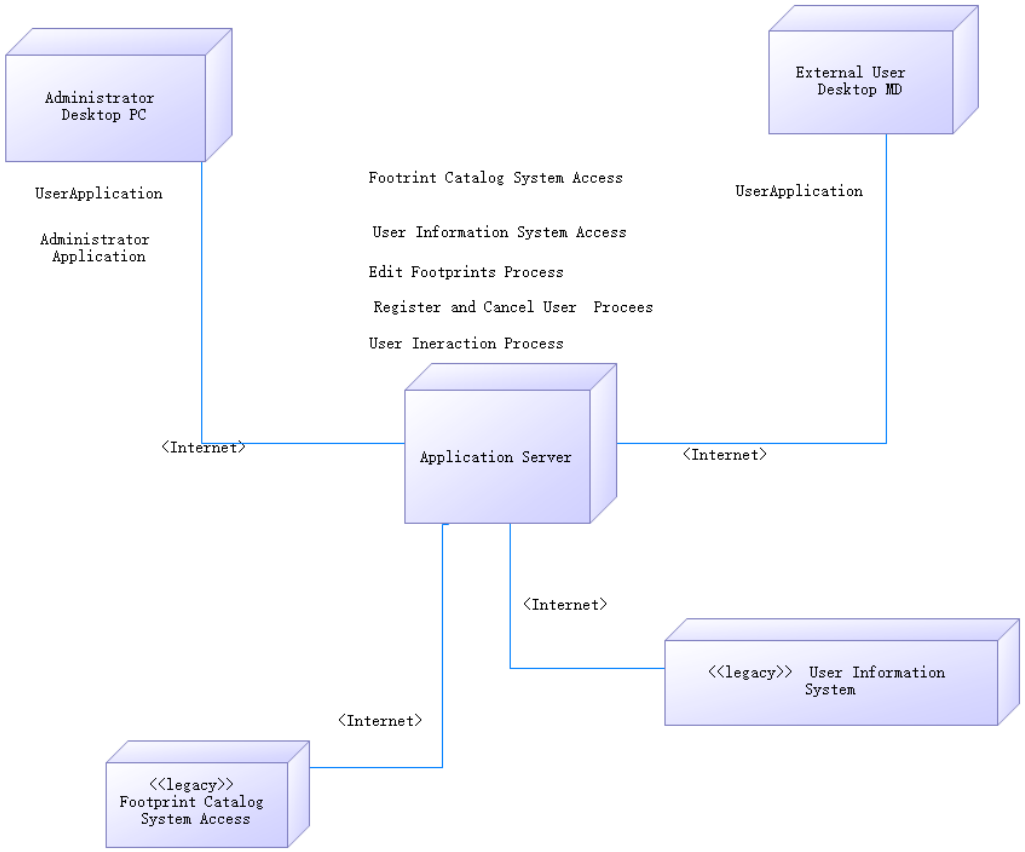
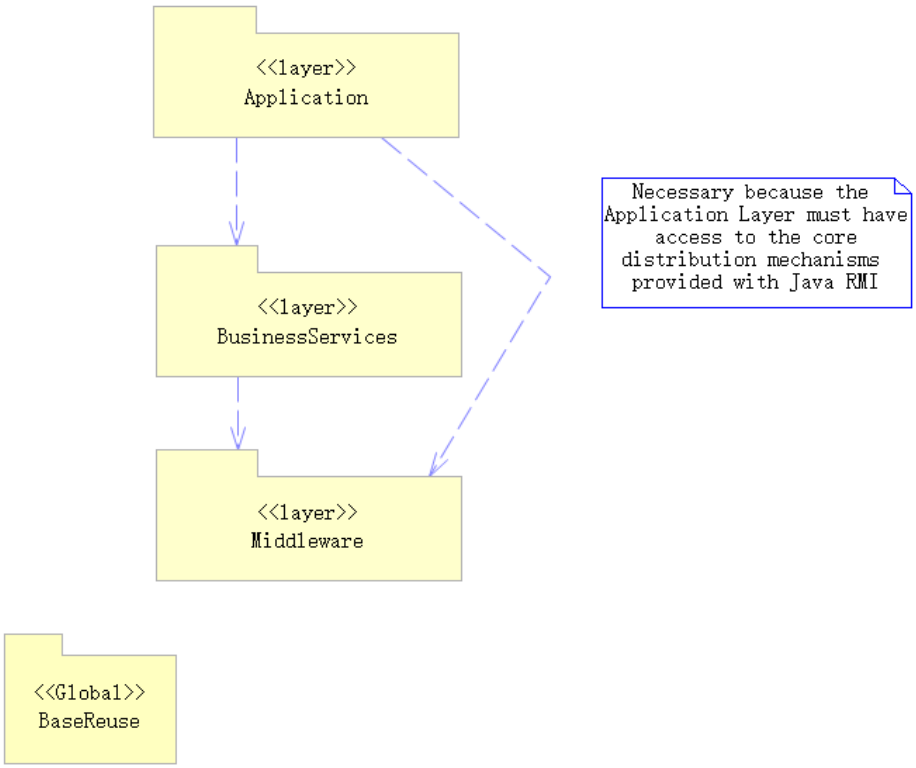


Diagram Name: Deployment View

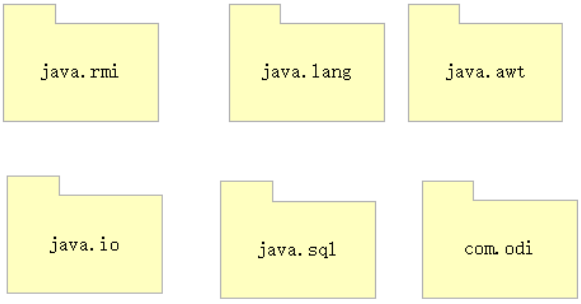
2. Deployment View

When deploying the architecture of application Footprint, we employed the style of Layered Architecture, which is shown as below.



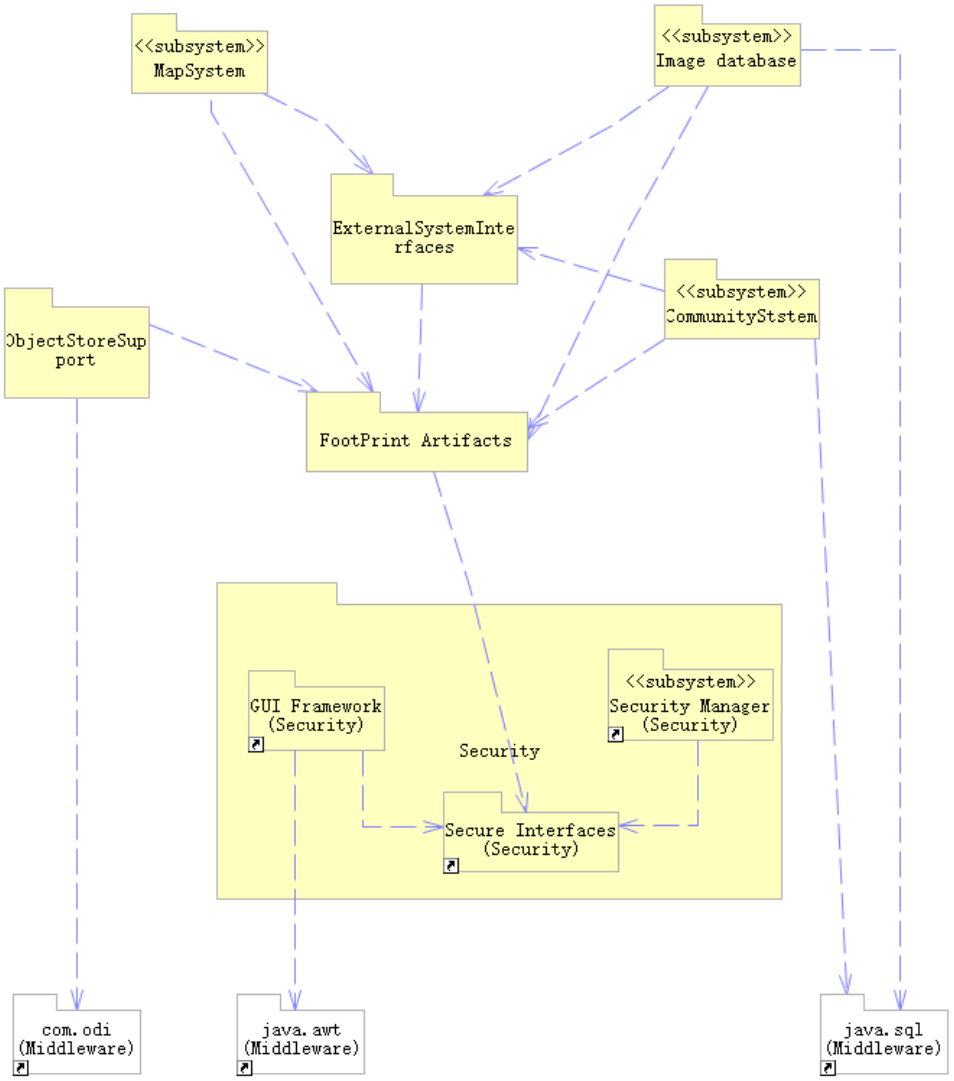
2.1. Middleware Layer

The middleware layer of FootPrint provides underlying libraries, including operation system, hardware interface, device drivers, and so on.



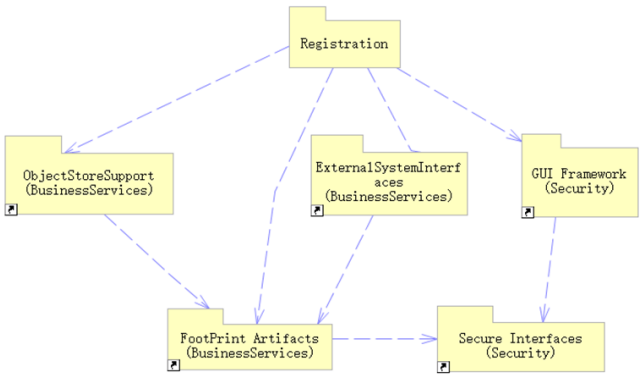
2.2. Business Specific Layer

The business-specific layer of FootPrint contains a number of reusable subsystems, including image library, community information library and mapping system.



2.3. Application Layer

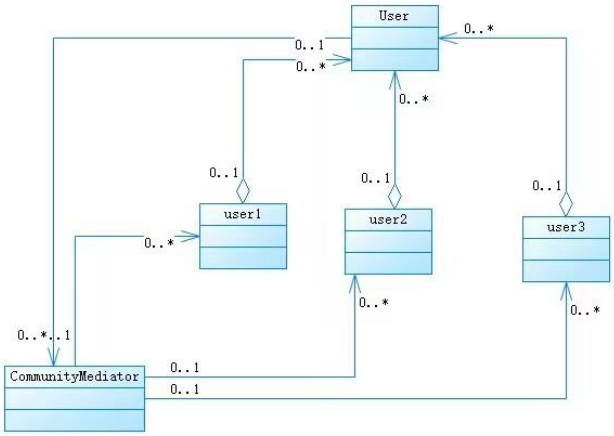
The application layer of FootPrint includes interface of external system, support to object storage, GUI interface, and so on.



1. Mediator 模式：社区用户交互功能

我们用中介者模式设计了如下图所示的社区用户交互逻辑，涉及的类包括社区中介者、管理员和普通用户，其中管理员是普通用户的子类。

当普通用户之间进行互动时，其发送的动态会经由中介者存储后再显示给其他用户。管理员亦使用这种方法与普通用户、其他管理员进行互动，但与普通用户不同的是，管理员能够直接管理普通用户的发言状态，也能经由社区中介者获取、管理所有用户的所有动态。



2. Decorator 模式：应用主界面功能

我们用装饰器模式设计了应用主界面的基本功能，继承该装饰器的组件有地图、搜索栏和暗色调模式开关。在绘制界面时，我们只需完成装饰器中的基本绘图控件调用，再完善不同组件的特有属性绘制即可。