```
// Provider framework sketch
public abstract class Foo {
   // Maps String key to corresponding Class object
    private static Map implementations = null;
    // Initializes implementations map the first time it's called
    private static synchronized void initMapIfNecessary() {
        if (implementations == null) {
            implementations = new HashMap();
            // Load implementation class names and keys from
            // Properties file, translate names into Class
            // objects using Class.forName and store mappings.
        }
    public static Foo getInstance(String key) {
        initMapIfNecessary();
        Class c = (Class) implementations.get(key);
        if (c == null)
            return new DefaultFoo():
        trv {
            return (Foo) c.newInstance();
        } catch (Exception e) {
            return new DefaultFoo();
        }
    }
```