

```

package ch.hftm.business;

import java.util.List;

import javax.ejb.Stateless;
import javax.persistence.EntityManager;
import javax.persistence.PersistenceContext;
import javax.persistence.Query;

import ch.hftm.exception.AlreadyExistsException;
import ch.hftm.exception.NotFoundException;
import ch.hftm.model.Contact;

@Stateless
public class ContactBookBean implements ContactBookRemote{
    @PersistenceContext
    private EntityManager entityManager;

    @Override
    public void add(Contact contact) throws AlreadyExistsException {
        entityManager.persist(contact);
    }

    @Override
    public Contact find(String name) throws NotFoundException {
        // TODO Auto-generated method stub
        return entityManager.find(Contact.class, name);
    }

    @Override
    public void update(Contact contact) {
        entityManager.merge(contact);
    }

    @Override
    public void remove(String name) {
        Contact contact = entityManager.getReference(Contact.class, name);
        entityManager.remove(contact);
    }

    //Contact = Table in DB, class = the class name, name= id

    @SuppressWarnings("unchecked")
    @Override
    public List<Contact> contact() {
        Query query=entityManager.createQuery("select c from Contact c");
        return query.getResultList();
    }
}

```

```
// ("select c from Contact c" c is the OBJECT, CONTACT = TABLE IN DATABASE
```

```
    @Override  
    public List<Contact> list() {  
        // TODO Auto-generated method stub  
        return null;  
    }
```

```
}
```