1. **About the application:**

This sample application utilizes j2ee 6 framework. It uses JAX-RS and jersey to build the rest web services and EJB and JPA Hibernate. These are also the technologies provided by j2ee . The app server used is tomee (tomcat + openejb) as it’s the simplest and lightest j2ee server . Hibernate is also the most popular orm used. EJB is considered as it provides a component and dependency injection framework in j2ee.

1. **Design**

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| --- | --- | --- | --- | --- |
| Rest Service Layer | Business Layer | Business Logic Layer | Data | DataBase |
| JAX-RS | FAÇADE | BUSINESS LAYER | ORM | DB |
| Jersey | Stateless EJB | Stateless EJB | JPA Hibernate | Mysql |

* Business delegate – JAX-RS , jersey act as a business delegate to invoke business operations
* Façade – business operations are exposed in a façade layer. JAX-RS uses a single faced to interact with service layer.
* Depedency injection - business components are injected into different layes. EJB are injected into
* ORM for data access.

1. **Class description**

* RestService interface implements jax-rs annotation.
* RestServiceImpl stateless session bean provides implementation of rest service.
* UserBean stateless session bean , provides business logic layer and also act as dao layer for data access.
* Note , User jpa entity class for note and user tables .