RESTFul Services In Java Using Jersey

Client

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Client

Jersey Client

- **Building a client helps enforce a contract**
  - Jersey has great client capabilities
- **http://localhost:8080/exercise-services/webapi/activities/1234**
- **Create ActivityClient class to retrieve an Activity**
- **Run with JUnit**
  - Add JUnit dependency to the pom.xml
  - request(MediaType.APPLICATION_JSON_TYPE)

Activity

new GenericType<List<Activity>>() {}

- **Returning a List is a little bit strange**
  - .get(List.class) won't work
  - wrap with new GenericType<List<Activity>>() {}
- **Maps and Sets have the same issue**

```
{
    "duration":55,
    "desc":"running"
}
```

Response

- **How do we handle Errors?**
  - All of our responses so far have been happy path
- **HTTP Response Codes (Not all the codes, just the common ones)**
  - 200 OK (Good Response)
  - 301 Moved Permanently (Deprecated Service)
  - 400 Bad Request (Missing Information)
  - 401 Unauthorized
  - 403 Forbidden
  - 404 Not Found
  - 500 Internal Server Error
- **Return a Response Object**

POST

- **Different than GET in that we have to supply an Entity**
  - Use .post() method
  - Entity.entity(activity, MediaType.APPLICATION_JSON)
- **Response is the same as GET**
  - Response status
  - Return Entities

Summary

- **Client creation**
- **Retrieving an Object**
- **Retrieving a List**
- **Error handling**
- **Unit Testing**