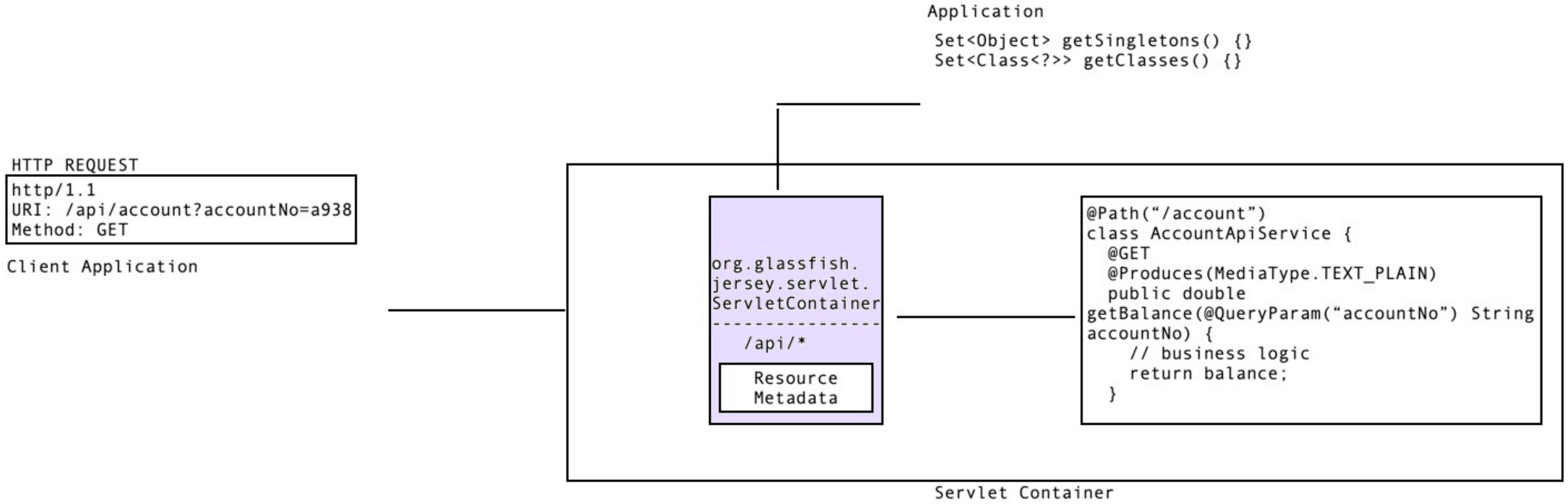

```
@Path("/account")
class AccountApiService {
  @GET
  @Produces(MediaType.TEXT_PLAIN)
  public double
getBalance(@QueryParam("accountNo") String
accountNo) {
    // business logic
    return balance;
  }
```

1. Always the incoming request would be received by the ServletContainer based on the host:port over which the request is being send

2. upon receiving the request, the ServletContainer always tries to identify appropriate Servlet to whom it can handover the request for processing. It tries to identify the Servlet of our application based on incoming request urlPattern matching with Servlet urlPattern we configured in web.xml
/api/account?accountNo=a938 = /api/*
since the jaxrs runtime has been configured with /api/* always the incoming request to the Resources will be mapped to jaxrs runtime servlet only. So the ServletContainer dispatches the request to JaxRs Runtime

3. upon receiving the request from ServletContainer, the jaxrs runtime has to identify an appropriate Resource class and an Resource Method to whom the request should be dispatched for processing
3.1 So it takes the extra pathinfo of the url /api/(*) is extract path info which is in the above case "/account" and tries to match with Resource class @Path annotation.
How does the jaxrs runtime knows where are the resource classes in our application?
so incase of jersey we configured an init-param (jersey.config.server.provider.packages) pointing to the packageName where the resource classes are available within the application.

3.2 once it identifies the resource class based on the incoming request url with @Path, the jaxrs runtime has to identify appropriate method to whom the request needs to be dispatched.

```
  - to identify the resource method, it takes #2 things (as of now) into consideration
    1. http request method = Http Method Designator [@GET, @POST, @PUT, @DELETE]
    2. Accept header       = MediaTypes being produced [@Produces]
```

4. after identifying the method, to invoke the method, it has to pass the required data that is declared aspart of its parameters. Now the jaxrs runtime has to extract the input data that is passed aspart of the request based on the annotations indicating what parts of the request data should be sent as an input through which parameters.
then gather the data and pass it as an input in calling the resource methods.

5. now collect the return value returned by the resource method and convert into requested format by the client and dispatch it aspart of the response body with http response.

```
/account = AccountApiService
 1. GET          = getBalance
    TEXT/PLAIN
    getBalance
     params:
       accountNo: queryParam("accountNo")
     output:
       text/plain
```