Client/Server Communication

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Agenda

- Client/Server Communication
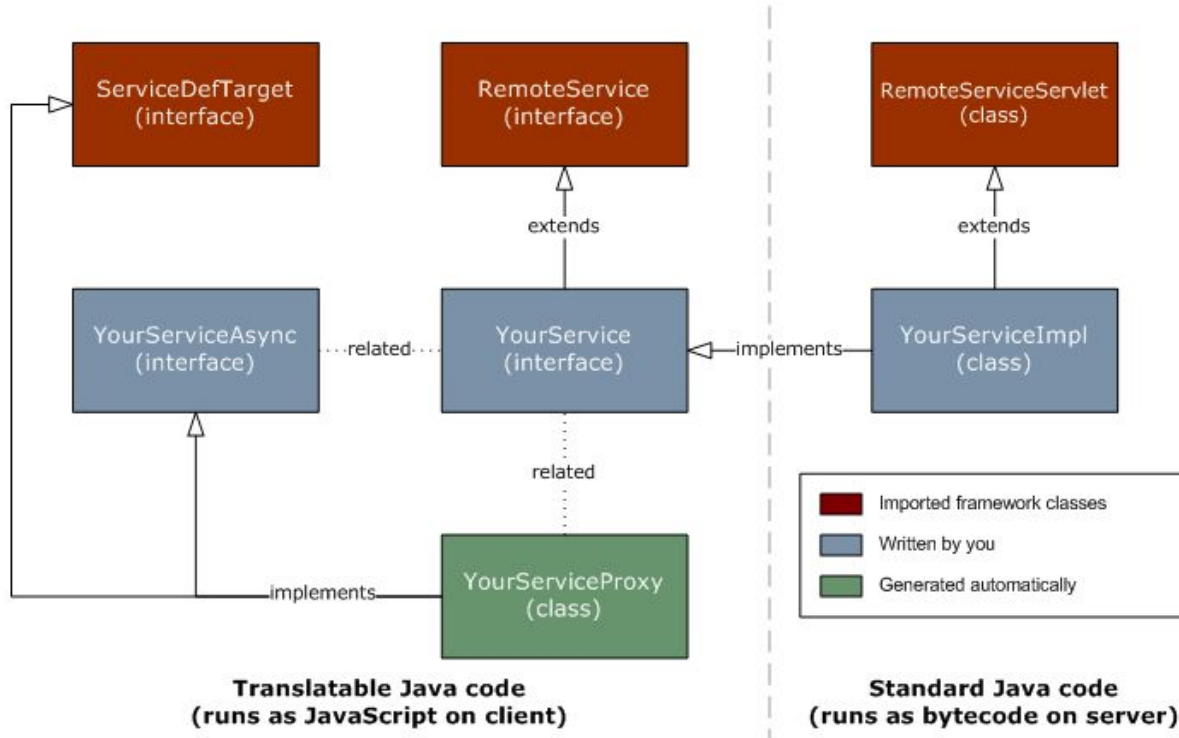- GWT RPC
- RestyGWT
- Task

Client/Server Communication

Client / Server

At some point, most GWT applications will need to interact with a backend server. GWT provides a couple of different ways to communicate with a server via HTTP. You can use the GWT RPC framework to transparently make calls to Java servlets and let GWT take care of low-level details like object serialization. Alternatively, you can use GWT's HTTP client classes to build and send custom HTTP requests.

GWT RPC

GWT RPC - Structure

RestyGWT

REST APIs with RestyGWT

- RestyGWT is a GWT generator for
  - REST services and
  - JSON encoded data transfer objects.

REST APIs with RestyGWT - Example

- REST on server with Spring Boot
- REST on client with RestyGwt
- Example:
  - https://github.com/gwtboot/restygwt-enum-date

Task

- Fake Online REST API for Testing and Prototyping
  - https://jsonplaceholder.typicode.com
- We have following REST API:
  - https://jsonplaceholder.typicode.com/posts
- Task 1: Please write a GWT client with RestyGwt which can access the REST API "*posts*" above.
- We have following REST API:
  - https://jsonplaceholder.typicode.com/posts/1/comments
- Task 2: Please write a GWT client with RestyGwt which can access the REST API "*posts/1/comments*" above.

References

- http://www.gwtproject.org/doc/latest/DevGuideServerCommunication.html
- https://resty-gwt.github.io/documentation/restygwt-user-guide.html
- https://jsonplaceholder.typicode.com