**Chapter 8 – Spring REST**

Spring Remote procedure call duplicated, as its difficult to operate through firewall.

Spring webservice – supports both REST and SOAP style webservice.

Spring platform is most suited for building stateless REST webservice – where REST service allows access and manipulation of textual representation of web resources using a uniform and predefined set of stateless operation.

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| --- | --- | --- |
| HTTP Method Name | Purpose | Description |
| GET | Read | Reads a resource, does not change it. It is considered safe. Reading  the same resource always returns the same result. It is considered  idempotent. This does not apply when the resource is not cached and  modified by a parallel operation on the server that it is being retrieved  from. |
| POST | Create | Used to create a new resource. Neither safe nor idempotent. Two  identical POST requests will result in two identical resources being  created or errors at the application level. |
| PUT | Update | Most often used for update capabilities. It is not safe, as it modifies the  state on the server, but is idempotent (unless subsequent calls of the  same PUT request increments a counter within the resource for example). |
| DELETE | Delete | Used to delete resources. Not safe, but can be considered idempotent. Because requests to delete a resource that no longer exists will always  return a 404 (not found). |

When working with REST – the session need not to be stored as REST services are stateless in nature.

@Controller is not equivalent to use @RestController

Based on the existing message convertor on the classpath , spring would facilitate the conversion of incoming message to desired format.

Validation , @Validation annotation can be used to validate the data that is sent by the client based on the validation rule added to the Domain Object.

SO if we would actually intend to create a new Person instance and set the password for it, using this annotation and configuring its access attribute to Access. WRITE\_ONLY we can specify that this property is to be set only when de-serializing an object. defaults to Access. AUTO, which means visibility rules automatically determine read and/or write-access of this property, and since in the previous example there are no visibility rules defined, the file will be available at serialization and deserialization.

The scope for a controller advice can be limited to exceptions thrown by methods of controllers declared in a specific set of packages (or subpackages) by setting the basePackages attribute.

Error Handling

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| --- | --- | --- |
| Method | Scenario | HTTP Status Code |
| GET |  |  |
| POST |  |  |
| PUT |  |  |
| DELETE | Deleted Item does not exist | HTTP 404 |
|  | Deletion couldn’t execute successfully | HTTP 500 |