

RESTFUL SERVICES (JSR - 311)

1)	Introduction <ul style="list-style-type: none">a) Why web so successful?b) Principles of REST
2)	Basics of Http <ul style="list-style-type: none">a) Http Methodsb) Http status codes
3)	Http Methods and URI Matching <ul style="list-style-type: none">a) Basic example on RESTb) How can we use interfaces and abstract classesc) Binding Http methods (GET, POST, PUT, DELETE AND HEAD)d) Binding URIs (@Path)e) Working with Path Expressions<ul style="list-style-type: none">a. Template parametersb. Regular expressionsc. Matrix parametersf) Sub-resource Locators (Dynamic dispatching)
4)	JAX-RS Injection <ul style="list-style-type: none">a) @PathParam (more params, scope and pathsegment)b) @MatrixParamc) @QueryParamd) @DefaultValuee) @FormParamf) @HeaderParamg) @CookieParamh) @Contexti) Programatic URI's using URIInfo (@PathParam, @MatrixParam and @QueryParam)j) @BeanParam Java Automatic Type conversion <ul style="list-style-type: none">a) Primitive Type conversionb) Java Object Type conversionc) Working with custom type converters
5)	JAX-RS Content handlers <ul style="list-style-type: none">a) StreamOutputb) InputStream/Reader

	c) File d) Byte[] e) MultivaluedMap<String, String> for FormInput f) JAXB g) Custom ContextResolvers h) Custom Marshalling/Unmarshalling (MessageBodyWriters and MessageBodyReaders)
6)	Server Responses and Exception Handling a) Using Response and ResponseBuilder b) Returning Cookies Exception Mapping
7)	JAX-RS Client API
8)	Caching a) Using ResponseBuilder to Cache b) Working with CacheControl
9)	Filters and Interceptors
10)	Asynchronous JAX-RS API a) Client API b) Server API
11)	Working with security