

## Spring Boot Web Services

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* Web Lervice > property web took of transmission of
These are XML - based information exchange switches that
we the internet for direct application - to -application
Interaction. There systems can include programs, objects
HERRAGES OF GOCCHERS.
- 78 a collection of open protocols and standards
used for exchanging data blw applications or systems
wed for exchanging data blw applications or system.
Keysin from soldering which there is triple sup spent -
· Designed for Machine- to-machine (or app-to-application
thould be interoperable - Not platform dependent
should allow communication over a nlw.
Charles to thought a wind all the transport and the transport of the contract
> key terninology ->
· Request fresponse
· Mssg Exchange Format
-XML and JION
· Lervice Provider of Lerver
· Lervice communer on client to the top top
· dervice definition.
· Tramport+2 JHY Stranger & + 12 app to scrifted & E - 90 + 6 (8
-HTTP and MQ
( Not (a) Not it is not present the suited for a mother
7 Types -> for physiling and frame - trapped
La resultation of the contract of the contract of the contract of
Stre-5 - Define while John Had definition (XS D) tox

Response Cast Course Descrip & Jesuse



- (1) SOAP Web dervices (Simple Object Access Protocol) - 77 is a part-based protocol for accepting web services. SOAPES Q W3C MECOMMENdation for communication 6/w 2 application It is XML based protocol. It is Platform independent and language independent. (2) RESTAUL web services -> (REpresentational State Transfer) - These are basically REST architecture based web services. In REST services Architecture everything is a rejource. - These are light weight highly scalable and Haindquable and are very commonly used to create API's and are very controlly used to create API's for web-based application A SOAP web services with spring & spring Boot -> 1 Step-1 -> Initialize a Spring web Lervices application Miss Exchange hard tood private Abin MOIT FIND JHX -2) oftep-2- Overview of creating SOAP web service Wing contract first approach will and mind (3) Ntep-3 - Define orequest 4 response XML structure (2) Define XML echeng definition (XSD) for Request-GretCourseDetailReguest
- Define MAL Scheng definition (XSD) for Response- Gret Course Detail Response

- 3) 1tep-6 -> Move about XML scheng definition and implementing XSD best practices
- (JAXB) and configuring JAXB 2.
- 8) step-8-2 Configuring an endpoint for GetCourseDetail
  Request
- Dispatcher Levolet configuration-Message
- 11-20 Spring web services configuration -
- 1 Step-11 Uting Wizdler to execute SOAP requests
- 1 Step-12 Itplehending a service Course Detail Service backend within meno.
- 1 1tep- 13 -> Inplementing LOAP web service for GretALL
  CourseDetails Request
- @ step-14 Quick introduction to diff. parts of a WSDL,
- (G step-15-) Juplementing JOAP web service for Delete Course
  DetailRequert

- (B) 1tep-16 -) Improving the Delete Course Details Request lying an Enum for status
- (1) Step-17 -> Exception handling and loap fault nespower
- 18) Step-18 -> 3+4pleHenting security for SOAP web services With WI Jecuvity.
- 在 RESTful web services with spring 4 spring Boot ->
- 1) Step-1 -> Initializing a RESTful services project with spring boot.
- 2) Step-2-> Understanding the RESTful services we would create in this course.
- (3) step-3 -> Creating a Hello World Lervice
- (1) Step-4 -> Enhancing the Hello would revuice to veturn a Bean,
- (5) ofter-5 Orick yeview of spring Boot Auto configuration and Dupatcher devolet
- (8) ofter-6-) Enhancing the Hello would revuice with a path minuals to Variable, some a

- 1) Hep-7 -> Creating wer Bean and wer Lervice
- (8) HEP-8-) IMPIEMENTING CIET HETHORY FOR WER METOUVE
- (9) deep-9-) Implementing post nethod fato create wer
- (b) 1tep-10 -> Enhancing POST Method to veturn correct.
  HTTP Status code and location.
- 1) Step-11- Implementing Exception Handling 404 Resource
- (2) step- 12-) Implementing generic exception Handling for
- (3) Hep-13- Exercise: User post resource and exception handling.
- The left of the state of the st
- (15) Step- 25-) Implementing validation for REITFUL services,
- 10 Step-26- THPleneusing HATEOMS for RESTFUL services.
- (17) 2tep-17 Overview of advanced RESTfy) service features

n	AT	12

- (B) 11-18 -> Internationalization for REsTful services,
- (1) 11tep-19-2 Content regodiation-inplementing Lupport for XHL
- (20) strep-20 -> Configuring outo generation of swagger documents:
- 3) 1/19-21-) Introduction to Lwagger documentation format.
  - 1) ltep-22-3 Enhancing swagger documentation with custom annotation.
- (23) Step-23 -> Monitoring API's with spring boot actuator.
- 24) Step- 24 -> JAPKHENSING STATIC FILTENING FOR RESTAUL Levuice
- (2) Step-25 -> JAPKHENDING dynamic filtering for RESTAI) dervice
  - (26) dtep-26-3 Vertioning REST-ful services-Bosic approach with URIL
  - (27) Step- 27 > Versioning RESTFUL Services Header and content negotiation approach.
- 1tep-28-) THPLEMENTING basic authentication with spring Lecuvity.

## Connecting RESTful web services to JPA ->

- 5) Step-29 -> Overview of connecting RESTful Service to JPA.
- 30 Step-30 -> Cheating wer entity and to He test data.
- (31) Ltep-31 -) Opdating CHET methods on wer resource to use JPA
- (B2) Step-32 -> Updating POST and DELETE Hethods on user webource to use JPA.
- (33) V-tep-33 -> Creating Post entity and many to one relationship with wer entity.
- Josep 31 -> Juplementing a CIET service to yetrieve all posts of a wer.
- (3) Step-35 Implementing a POST service to create a post for a wer.
- \* RESTRY LURA Jervices Best Practices ->
- 36 Hep-36 Richardson Maturity Model
- 37 Hep-37->RESTFU Web Lervices Best Practices