

Java-Success.com

Industrial strength Java/JEE Career Companion to open more doors

[Home](#)
[Java FAQs](#)
[600+ Java Q&As](#)
[Career](#)
[Tutorials](#)
[Member](#)
[Why?](#)
[Can u Debug?](#)
[Java 8 ready?](#)
[Top X](#)
[Productivity Tools](#)
[Judging Experience?](#)

[Home](#) › [Interview](#) › [SQL, XML, UML, JSON, Regex Interview Q&A](#) › [JSON](#) › JSON, Jackson, and Maven example

JSON, Jackson, and Maven example

Posted on [October 20, 2015](#) by [Arulkumaran Kumaraswamipillai](#)



Tweet



Step 1: Create a new simple-json project using Maven CLI.

```
1 mvn archetype:generate -DgroupId=com.mytutorial -
```

press "Enter" for all the prompts. This creates a new "simple-json" folder with MVN artefacts like pom.xml, etc.

Step 2: Import the maven project into your IDE. E.g. in eclipse File → Import → Existing Maven Projects and browse the "simple-json" folder with the pom.xml you created in Step 1. Press finish.

Step 3: Make changes to the pom.xml to include JSON libraries

600+ Full Stack Java/JEE Interview Q&As ♥Free ♦FAQs

[open all](#) | [close all](#)

- [Ice Breaker Interview](#)
- [Core Java Interview C](#)
- [JEE Interview Q&A \(3](#)
- [Pressed for time? Jav](#)
- [SQL, XML, UML, JSC](#)
- [ERD \(1\)](#)
- [NoSQL \(2\)](#)
- [Regex \(2\)](#)
- [SQL \(7\)](#)
- [UML \(1\)](#)
- [JSON \(2\)](#)
- [JSON interview \(](#)
- [JSON, Jackson,](#)
- [XML \(2\)](#)
- [XSD \(2\)](#)
- [YAML \(2\)](#)
- [Hadoop & BigData Int](#)
- [Java Architecture Inte](#)
- [Scala Interview Q&As](#)
- [Spring, Hibernate, & I](#)
- [Testing & Profiling/Sa](#)

```

1  <project xmlns="http://maven.apache.org/POM/4.0.
2  xsi:schemaLocation="http://maven.apache.org/
3  <modelVersion>4.0.0</modelVersion>
4
5
6  <groupId>com.mytutorial</groupId>
7  <artifactId>simple-json</artifactId>
8  <version>1.0-SNAPSHOT</version>
9  <packaging>jar</packaging>
10
11 <name>simple-json</name>
12 <url>http://maven.apache.org</url>
13
14 <properties>
15     <project.build.sourceEncoding>UTF-8</pro
16     <jackson.version>2.4.4</jackson.version>
17 </properties>
18
19 <dependencies>
20     <dependency>
21         <groupId>junit</groupId>
22         <artifactId>junit</artifactId>
23         <version>4.11</version>
24         <scope>test</scope>
25     </dependency>
26
27     <!-- JSON library -->
28     <dependency>
29         <groupId>com.fasterxml.jackson.core
30         <artifactId>jackson-databind</artifa
31         <version>${jackson.version}</version>
32     </dependency>
33
34     <dependency>
35         <groupId>com.fasterxml.jackson.core
36         <artifactId>jackson-core</artifactId>
37         <version>${jackson.version}</version>
38     </dependency>
39
40     <dependency>
41         <groupId>com.fasterxml.jackson.core
42         <artifactId>jackson-annotations</art
43         <version>${jackson.version}</version>
44     </dependency>
45 </dependencies>
46 </project>

```

Step 4: Write the domain Java object with the annotations to be able to Marshall & Unmarshall. Also, not the serialization classes to convert LocalDate object to String and vice-versa.

```

1  package com.mytutorial.model;
2
3  import java.io.IOException;
4  import java.io.Serializable;
5  import java.time.LocalDate;
6  import java.time.format.DateTimeFormatter;
7  import java.util.Objects;
8
9  import com.fasterxml.jackson.annotation.JsonInc
10 import com.fasterxml.jackson.core.JsonGeneratio

```

[Other Interview Q&A 1](#)
[Free Java Interview](#)

16 Technical Key Areas

open all | close all

- [Best Practice \(6\)](#)
- [Coding \(26\)](#)
- [Concurrency \(6\)](#)
- [Design Concepts \(7\)](#)
- [Design Patterns \(11\)](#)
- [Exception Handling \(3\)](#)
- [Java Debugging \(21\)](#)
- [Judging Experience 1](#)
- [Low Latency \(7\)](#)
- [Memory Management](#)
- [Performance \(13\)](#)
- [QoS \(8\)](#)
- [Scalability \(4\)](#)
- [SDLC \(6\)](#)
- [Security \(13\)](#)
- [Transaction Managen](#)

80+ step by step Java Tutorials

open all | close all

- [Setting up Tutorial \(6\)](#)
- [Tutorial - Diagnosis \(2\)](#)
- [Akka Tutorial \(9\)](#)
- [Core Java Tutorials \(2\)](#)
- [Hadoop & Spark Tuto](#)
- [JEE Tutorials \(19\)](#)
- [Scala Tutorials \(1\)](#)
- [Spring & Hibernate Ti](#)
- [Tools Tutorials \(19\)](#)
- [Other Tutorials \(45\)](#)

```

11 import com.fasterxml.jackson.core.JsonGenerator
12 import com.fasterxml.jackson.core.JsonParser;
13 import com.fasterxml.jackson.core.JsonProcessingException
14 import com.fasterxml.jackson.databind.DeserializationContext
15 import com.fasterxml.jackson.databind.JsonDeserializer
16 import com.fasterxml.jackson.databind.JsonSerializer
17 import com.fasterxml.jackson.databind.ObjectMapper
18 import com.fasterxml.jackson.databind.ObjectWriter
19 import com.fasterxml.jackson.databind.SerializationContext
20 import com.fasterxml.jackson.databind.annotation.JsonSerialize
21
22 //Java 8 code
23 public class ClientEvent implements Serializable {
24
25     private static final long serialVersionUID = 1L;
26     public static final String DATE_FORMAT = "dd-MM-yyyy";
27
28     private String clientCode;
29
30     @JsonDeserialize(using = CustomLocalDateDeserializer.class)
31     @JsonSerialize(using = CustomLocalDateSerializer.class)
32     private LocalDate eventDate;
33
34     public ClientEvent() {
35         super();
36     }
37
38     public String getClientCode() {
39         return clientCode;
40     }
41
42     public void setClientCode(String clientCode) {
43         this.clientCode = clientCode;
44     }
45
46     public LocalDate getEventDate() {
47         return eventDate;
48     }
49
50     public void setEventDate(LocalDate eventDate) {
51         this.eventDate = eventDate;
52     }
53
54     @Override
55     public boolean equals(Object obj) {
56         if (obj == null) {
57             return false;
58         }
59         if (getClass() != obj.getClass()) {
60             return false;
61         }
62         final ClientEvent other = (ClientEvent) obj;
63
64         return Objects.equals(this.clientCode, other.clientCode)
65             && Objects.equals(this.eventDate, other.eventDate);
66     }
67
68     @Override
69     public int hashCode() {
70         return Objects.hash(this.clientCode, this.eventDate);
71     }
72
73     @Override
74     public String toString() {
75         return Objects.toString(this);
76     }

```

100+ Java pre-interview coding tests

[open all](#) | [close all](#)

- [Can you write code? \(1\)](#)
- [Complete the given code \(1\)](#)
- [Converting from A to B \(1\)](#)
- [Designing your class \(1\)](#)
- [Java Data Structures \(1\)](#)
- [Passing the unit tests \(1\)](#)
- [What is wrong with this code? \(1\)](#)
- [Writing Code Home Assignment \(1\)](#)
- [Written Test Core Java \(1\)](#)
- [Written Test JEE \(1\)](#)

How good are your?

[open all](#) | [close all](#)

- [Career Making Knowledge \(1\)](#)
- [Job Hunting & Resumes \(1\)](#)

```

77
78     public String toJson() {
79         ObjectMapper mapper = new ObjectMapper(
80             mapper.setSerializationInclusion(JsonIn
81
82         try {
83             String json = mapper.writeValueAsSt
84             return json;
85         } catch (JsonProcessingException e) {
86             e.printStackTrace();
87             throw new RuntimeException(e);
88         }
89     }
90
91     public static ClientEvent fromJson(String j
92     ObjectMapper mapper = new ObjectMapper(
93         mapper.setSerializationInclusion(JsonIn
94         try {
95             ClientEvent clientEvent = mapper.re
96             return clientEvent;
97         } catch (IOException e) {
98             e.printStackTrace();
99             throw new RuntimeException(e);
100        }
101    }
102
103 }
104
105 /**
106  * Custom LocalDate deserializer from JSON usin
107  * format.
108  */
109 class CustomLocalDateDeserializer extends JsonD
110
111     public CustomLocalDateDeserializer() {
112     }
113
114     @Override
115     public LocalDate deserialize(JsonParser jp,
116         throws IOException, JsonProcessingE
117         String stringValue = jp.getValueAsStrin
118         LocalDate dateTime = LocalDate.parse(st
119             DateTimeFormatter.ofPattern(Cli
120         return dateTime;
121     }
122 }
123
124 /**
125  * Custom LocalDate serializer to JSON using th
126  */
127 class CustomLocalDateSerializer extends JsonSer
128
129     public CustomLocalDateSerializer() {
130     }
131
132     @Override
133     public void serialize(LocalDate value, Json
134         SerializerProvider provider) throws
135         JsonGenerationException {
136         DateTimeFormatter formatter = DateTimeF
137             .ofPattern(ClientEvent.DATE_FOR
138         jgen.writeString(formatter.format(value
139     }
140 }
141
142

```

Step 5: Finally, the JUnit test class to Marshall & Unmarshall.

```
1  package com.mytutorial.model;
2
3  import java.io.IOException;
4  import java.io.StringWriter;
5  import java.time.LocalDate;
6  import java.time.format.DateTimeFormatter;
7
8  import org.junit.Assert;
9  import org.junit.Test;
10
11 import com.fasterxml.jackson.core.JsonGeneration
12 import com.fasterxml.jackson.databind.JsonMappin
13 import com.fasterxml.jackson.databind.ObjectMapp
14
15 public class ClientEventTest {
16
17     private static final String JSON_TEXT = "{\\"
18
19     @Test
20     public void testMarshall() throws JsonGenera
21         ClientEvent ce = new ClientEvent();
22         ce.setClientCode("CLIENT-123");
23         ce.setEventDate(LocalDate.now());
24         ObjectMapper objMapper = new ObjectMappe
25         StringWriter sw = new StringWriter();
26         objMapper.writeValue(sw, ce);
27
28         Assert.assertNotNull(sw.toString());
29         Assert.assertEquals(JSON_TEXT, sw.toStri
30     }
31
32     @Test
33     public void testUnMarshall() throws JsonGene
34
35         ClientEvent ce = ClientEvent.fromJson(JS
36
37         Assert.assertNotNull(ce);
38         Assert.assertEquals("CLIENT-123", ce.get
39         DateTimeFormatter df = DateTimeFormatter
40         Assert.assertEquals("20/10/2015", df.for
41     }
42
43 }
```

Step 6: Run “ClientEventTest” as a Junit test.

Popular Posts

♦ [11 Spring boot interview questions & answers](#)

828 views

♦ [Q11-Q23: Top 50+ Core on Java OOP Interview Questions & Answers](#)

768 views

18 Java scenarios based interview Questions and Answers

400 views

001A: ♦ 7+ Java integration styles & patterns interview questions & answers

389 views

01b: ♦ 13 Spring basics Q8 – Q13 interview questions & answers

296 views

♦ 7 Java debugging interview questions & answers

293 views

01: ♦ 15 Ice breaker questions asked 90% of the time in Java job interviews with hints

286 views

♦ 10 ERD (Entity-Relationship Diagrams) Interview Questions and Answers

280 views

♦ Q24-Q36: Top 50+ Core on Java classes, interfaces and generics interview questions & answers

240 views

001B: ♦ Java architecture & design concepts interview questions & answers

202 views

Bio

Latest Posts



Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via [Amazon.com](https://www.amazon.com) in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site. **945+** paid members. [join my LinkedIn Group](#). [Reviews](#)



**About** [Arulkumaran Kumaraswamipillai](#)

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via [Amazon.com](#) in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site. **945+** paid members. [join my LinkedIn Group](#). [Reviews](#)

◀ Preventing XSS attacks in Java

Spring, JavaConfig (i.e @Configuration) & JDBC by example ▶

Posted in JSON, member-paid

Empowers you to open more doors, and fast-track

Technical Know Hows

☀ [Java generics in no time](#) ☀ [Top 6 tips to transforming your thinking from OOP to FP](#) ☀ [How does a HashMap internally work? What is a hashing function?](#)
☀ [10+ Java String class interview Q&As](#) ☀ [Java auto un/boxing benefits & caveats](#) ☀ [Top 11 slacknesses that can come back and bite you as an experienced Java developer or architect](#)

Non-Technical Know Hows

☀ [6 Aspects that can motivate you to fast-track your career & go places](#) ☀ [Are you reinventing yourself as a Java developer?](#) ☀ [8 tips to safeguard your Java career against offshoring](#) ☀ [My top 5 career mistakes](#)

Prepare to succeed

☀ [Turn readers of your Java CV go from "Blah blah" to "Wow"? ☀ \[How to prepare for Java job interviews?\]\(#\) ☀ \[16 Technical Key Areas\]\(#\) ☀ \[How to choose from multiple Java job offers?\]\(#\)](#)

Select Category ▼

© Disclaimer

The contents in this Java-Success are copy righted. The author has the right to correct or enhance the current content without any prior notice.

These are general advice only, and one needs to take his/her own circumstances into consideration. The author will not be held liable for any damages caused or alleged to be caused either directly or indirectly by these materials and resources. Any trademarked names or labels used in this blog remain the property of their respective trademark owners. No guarantees are made regarding the accuracy or usefulness of content, though I do make an effort to be accurate. Links to external sites do not imply endorsement of the linked-to sites.