Complete JSON AJAX API Course - Beginner to Professional

Learn how to use JSON and get JSON data using AJAX Course includes practice exercises and examples using JSON & AJAX

**Prefect course for beginners to learn AJAX and JSON!!! Step by step learning with all steps included**

Loaded full of examples and code snippets that can be used to build upon, practice and get comfortable with AJAX. Top developer resources, helpful tips and many many open APIs to practice with all included.

***Source Code also included so you can jump right in and start building applications.***

JSON is the preferred format for data being transferred between coding languages. Its easy to read, create and work with. Learn about JSON how it works and how you can use it within your own applications.

AJAX provides the ability for your JavaScript code to make http requests to get data and update your page content with the new data. The data is commonly in JSON format which makes it ideal for use within JavaScript applications.

Together AJAX and JSON are used everywhere and go hand in hand powering many of the top web applications and providing users what they expect from modern websites.

Technologies used within this course : JavaScript, HTML, CSS, Nodejs, AJAX, jQuery, SQLite, plus several npm packages

**JSON - JavaScript Object Notation**

*A lightweight data-interchange format which is easy for humans to read and write*

* Learn what JSON is and how to use it with JavaScript.
* Explore how to read and write JSON objects.
* Iterate thru JSON data and output data contents into your web page HTML elements.
* Build JSON in a dynamic format for better versatility and management.
* Event Triggers : How to trigger event listeners to use JSON data within JavaScript. Saving JavaScript data as JSON formatted content.
* JSON objects and Strings in JavaScript, conversion and manipulation.
* Getting JSON using HTTP XML request object.
* **Exercise :** practice JSON by building out several mini projects including a task list from scratch which stores content into local storage and retrieves local string content converted back in usable JavaScript objects.

**AJAX - Asynchronous JavaScript and XML**

*AJAX for building web based interactive applications that process user requests immediately. No page reload bring data into your application.*

* Explore how AJAX works and how it is used in web applications
* See what Fetch and XHR are and how they work to get data
* Connect to external content and data, load it into you application and output the data for the user.
* **Exercise :** Using AJAX to connect to a web API and retrieve random user information.
* Learn how to use AJAX to get a txt file content
* **Exercise : Use AJAX to retrieve jokes from an API and output the response data into your website.**
* Find out how to use Fetch and make AJAX requests using Fetch
* **Exercise** : Simple POST and GET to server using Fetch and xHR AJAX. Posting form data to a server using Fetch

**AJAX made easy with Libraries**

*Explore AJAX using two of the most popular libraries online.* T*hey solve the problem of cross browser differences in XHR requests and provide a seamless easy to apply experience when using AJAX*

* Using jQuery or Axios for AJAX
* The easy way to AJAX with options
* jQuery AJAX and shorthand ajax methods.
* **Exercise :** Connect to various web APIs using jQuery and Axios - Build simple AJAX mini applications
* jQuery Explore how you can use this most popular JavaScript library to do more with less coding.
* Lightweight library option : Axios provides a seamless AJAX approach that works off promises.

**JSON Server for AJAX practice Locally**

*Often when using AJAX locally we run into CORS errors or others, JSON server provides the perfect resource to easy setup and practice running a local JSON ready server. Send POST and GET requests and a whole lot more.*

* Learn how to set JSON server locally
* Top resources to practice AJAX requests during development like Postman
* **Exercise :** Create a front end application to connect to your JSON server and send data. JavaScript and HTML to setup user interface
* Practice making an AJAX request to the local server. Posting to JSON server using JavaScript AJAX
* **Exercise :** Practice exercise to build interactive application driven by local json DB data.
* Add more options and even search the local database. Amazing easy to use JSON server options like search
* **Exercise :** Mini application to store user info into the database.

**Google Sheets as a data source for AJAX requests**

*Explore using Google Script along with Google Sheets to output data from your sheet. Learn how to connect that data to your applications. Apps Script is a scripting language for light-weight application development in the G Suite platform*

* Step by step instruction on how to setup Google Sheets with a web app outputting data as JSON
* Use AJAX from your web application to get that data into your JavaScript code.
* Extend this even further using Google Apps Script. GET and POST to the Google Script web app adding and retrieving data in JSON format.
* **Exercise :** Send and retrieve data from Google Sheets. Create a user list as Google Sheets used as a data source.
* **Exercise :** Connect to a web API for user data and add it easily into your form to send to your Google Sheet.

**AJAX using xHR request, Fetch, jQuery and Axios**

*Different options for AJAX requests are explored and presented for comparison.*

* Step by step lessons to help you learn AJAX.
* Explore the various ways to make AJAX request while building and learning about the 4 different methods presented within the course.
* **Exercise :** fully functional mini tester application where you can input a URI and make AJAX requests.

**AJAX retrieving JSON data from popular end points**

*Using AJAX request data for your applications from popular APIs like YouTube and Wikipedia. Learn how to navigate web APIs and use the data within your projects.*

* **Exercise :** Connecting to Wikipedia API and exporting response data from API
* **Exercise :** Connecting to YouTube and Wikipedia using search to query and return JSON data to use within your webpage.

**JavaScript AJAX based trivia application exercise**

*Explore using popular APIs to build interactive and dynamic applications.*

* **Exercise :** Connecting to trivia API and sorting response data
* **Exercise :** Using response JSON to output and build dynamic content for users to interact with.

**RESTful API setup and development**

*Using Node, jQuery, JavaScript, SQLite, learn how to setup and connect a database to a RESTful API.*

* Explore how to setup a Restful API! GET, POST, PUT, DELETE
* Explore how the terminal can be used to setup a backend server using Node.js. Command line interface simple commands will be used to navigate and seutp folders.
* Learn how to setup an http server using node ready for localhost
* Using web resources like postman test your routes and endpoint responses. API web resources Postman CRUD
* Setup your routes for a Restful API GET POST PUT DELETE
* Updating with adding a SQLite Database to hold data
* **Exercise :** Mini application to send and retrieve user information from server database.

**RealTime Push messaging Exercise**

*Using pusher setup a real time messaging application that pushes data to open pages. Send and retrieve data in real time instantly.*

* Explore how to integrate web services into applications.
* Use AJAX requests to send data to web services
* **Exercise :** Build a simple real time messaging application from scratch

**AJAX fetch request API Exercise**

*Explore how to build a simple Crypto Currency web application from scratch. Perfect exercise to learn more and practice different request options as well as explore how to customize data for frontend output.*

* Setup a local server using Express and practice AJAX requests locally
* Avoid local CORS errors and sending requests from the backend
* Use request to connect to web APIs
* Multiple ways to make AJAX requests including fetch and jQuery
* Explore retrieving and updating API data on the backend before it comes to the frontend
* **Exercise :** Build a custom Crypto currency information application

**AJAX Twitter API Exercise**

*Explore the Twitter Developer API connect from your local machine. Use AJAX JavaScript and Node to setup twitter search.*

* Learn to setup a local server request web content
* Connect to the Twitter API return MASSIVE amounts of data Search and explore
* Access Tweet objects and get JSON data to your webpage
* POST to Twitter from your webpage
* GET tweet objects
* Exercise : Build a mini application to search tweets and post to twitter.

**This course covers everything you need to learn about JSON and AJAX**, including practice exercises, loads of examples, source code and step by step training. Along with friendly support in the Q&A to help you learn and answer any questions you may have.

Try it now you have nothing to lose, comes with a 30 day money back guarantee.

See what you can build with AJAX and JSON!!!!

Promo 2:05

https://www.udemy.com/complete-json-ajax-course/learn/v4/content

Section: 12 / 4

### **Introduction to course content and resources**

* 1. Introduction to JSON and AJAX3:29
* 2. How to use this course with resources
  + JSON.pdf
  + AJAX.pdf
* 3. Course Overview and how to use this course3:23
* 4. Course Development Environment and tools3:28

Section: 211 / 21

### **JSON JavaScript Object Notation Introduction**

* 5. What is JSON5:49
* 6. JSON in JavaScript7:18
* 7. Source Code
* 8. JSON Overview.9:53
* 9. JavaScript Objects6:20
* 10. Creating JSON4:28
* 11. Source Code
* 12. More complex nesting JSON9:12
* 13. Source Code
* 14. Back to JavaScript7:17
* 15. Source Code
* 16. Multiple Values in Object7:16
* 17. Source Code
* 18. Use JavaScript with JSON6:34
* 19. Source Code
* 20. JSON on the web12:54
* 21. Source Code
* 22. Session storage JSON12:07
* 23. Store Values as String6:28
* 24. Source Code
* 25. Section Resources JSON

Section: 31 / 17

### **JSON exercise Task List**

* 26. JSON exercise getting to know JSON2:56
* 27. JSON Exercise Setup Data7:00
* 28. JSON Exercise Use String Values as Data.11:15
* 29. JSON Exercise Make it Interactive9:33
* 30. Source Code JSON exercise
  + JSONExercise-1.html
* 31. JSON Exercise JSON better structure5:45
* 32. JSON Exercise Use the new Data with JavaScript8:58
* 33. JSON Exercise Store Current Data Instance8:10
* 34. Source Code Lesson 6
  + JSONExercise-2-lesson-6.html
* 35. JSON Exercise Add new items to the list7:37
* 36. JSON Exercise Tweaks and Bug Fixes12:00
* 37. JSON Exercise sessionStorage ready data.3:46
* 38. Source Code JSON application
  + JSONExercise-3-Complete.html
* 39. JSON Exercise Delete a Task9:01
* 40. JSON exercise AJAX and JSON9:17
* 41. Source Code Completed Project
  + JSONExercise-4-AJAX.html
* 42. Exercise Resources

Section: 40 / 19

### **AJAX various AJAX options in JavaScript**

* 43. Section Introduction4:26
* 44. AJAX introduction for Fetch and XHR7:47
* 45. XHR requests across the web11:52
* 46. Exercise Random User XHR options6:23
* 47. Exercise Random User AJAX Load Data5:38
* 48. Source Code Exercise AJAX
  + 5-AJAX-People-Loader-Exercise.html
* 49. More XHR practice4:26
* 50. XHR Request Data9:34
* 51. Source Code Joke Exercise
  + AJAX-lesson7.html
* 52. JavaScript Fetch5:23
* 53. Source Code Fetch
  + AJAX-8.html
* 54. Fetch Promise Response.8:22
* 55. Fetch Options5:17
* 56. Source Code Fetch Jokes
  + AJAX-10.html
* 57. Post with Fetch5:06
* 58. Fetch Form Submit Data10:34
* 59. Source Code form submit
* 60. AJAX section Overview1:57
* 61. Resources for section

Section: 50 / 25

### **AJAX libraries jQuery and Axios**

* 62. Axios and jQuery Introduction5:19
* 63. Introduction to jQuery3:11
* 64. AJAX with jQuery7:51
* 65. jQuery AJAX output to element6:38
* 66. Source Code JQuery Get
  + Source3.html
* 67. jQuery in Codepen7:38
* 68. Source Code 4
  + Soruce4-Codepen.html
* 69. jQuery AJAX shorthand3:08
* 70. Source Code 5
  + Source-5-get.html
* 71. jQuery Mulitple Items API4:19
* 72. Source Code Get JSON
  + Source-6.html
* 73. jQuery Post example8:22
* 74. Source Code POST jQuery
  + source-7-post.html
* 75. jQuery post with AJAX4:17
* 76. Source Code jQuery Post
  + source-8.html
* 77. JQuery Exercise Overview.3:30
* 78. JavaScript libraries for AJAX8:10
* 79. AXIOS Get Data Update HTML1:55
* 80. Source Code Axios Form
  + Source-Code-9.html
* 81. Loop Multiple Items in Object3:32
* 82. Source Code Axios Exercise
  + source-10.html
* 83. Axios AJAX post4:46
* 84. Source Code Exercise Axios
  + Source-Code-11.html
* 85. Axios Exercise Overview4:23
* 86. Section Resources

Section: 60 / 20

### **JSON Server Exercise Practice JSON and AJAX locally**

* 87. JSON server Introduction4:46
* 88. How to Setup Local JSON Database9:48
* 89. Postman Tool for AJAX4:10
* 90. Create your HTML elements4:37
* 91. Interactive Button7:26
* 92. XHR request data6:59
* 93. Source Code JSON server
  + source-code-6.html
* 94. XHR post data to json DB5:22
* 95. Exercise JSON server interface14:17
* 96. Exercise Build Page Comments6:34
* 97. Source Code JSON database
  + Source Code 8.html
* 98. Post create new posts6:02
* 99. Source Code Posts
  + Source Code 9.html
* 100. Search JSON server5:45
* 101. List Comments0:07
* 102. Add Post Comments7:35
* 103. Source Code Post to JSON db
  + source-code-11.html
* 104. Code Review JSON server5:29
* 105. Source Code GET POST content
  + source-code-12.html
* 106. Section Resources

Section: 70 / 19

### **Google Sheet API data GET POST with jQuery**

* 107. Google Sheet Data API2:48
* 108. Setup Sheet Data5:28
* 109. Google Sheet Get Sheet Data as JSON5:42
* 110. Source Code Google Script
  + GoogleScript.html
* 111. JSON Output Sheet Data6:38
* 112. Source Lesson 3 GS data
  + Lesson3 Get GS Data.html
* 113. Apps Script Google Scripting Server Side8:36
* 114. Use Google Script to Create Output15:36
* 115. Google Script Source Lesson 5
  + Lesson 5 GoogleScript.html
* 116. Create JSON feed from Google Sheets6:07
* 117. Source Code lesson 6
  + Lesson 6.html
* 118. Google Script POST data12:02
* 119. Google Script Lesson 7
  + Lesson 7 GoogleScript.html
* 120. Form Setup to Post on webpage4:22
* 121. Post data to Google Sheets5:58
* 122. Random User Data API6:30
* 123. Project Overview and Review.8:25
* 124. Final Application Source Code
  + Complete Source Code 111.html
* 125. Resources

Section: 80 / 14

### **AJAX request tester using GET and POST exercise**

* 126. AJAX tester Tool Introduction3:25
* 127. Setup Page Elements3:55
* 128. Make first AJAX Request2:54
* 129. Dynamic Input data11:02
* 130. AJAX Add jQuery8:33
* 131. Add Axios AJAX4:54
* 132. Add Fetch AJAX4:51
* 133. Source Code GET
  + lesson6 Fetch GET.html
* 134. Add Post Data Option8:15
* 135. Update for POST3:32
* 136. Update post for Fetch and Axios4:20
* 137. AJAX tester Code Review7:58
* 138. Source Code completed
* 139. Section resources

Section: 90 / 11

### **JavaScript AJAX API exercise YouTube and Wikipedia API**

* 140. Popular API requester mini application introduciton2:38
* 141. Page and Element Setup4:16
* 142. Bring in the XHR Object9:20
* 143. Connect to Wikipedia AP6:29
* 144. Output Data into web Page8:10
* 145. YouTube API with JavaScript5:28
* 146. Add YouTube API search5:58
* 147. Style data output8:17
* 148. Information app source code review4:41
* 149. Source Code Final Application
  + index.html
* 150. Section resources

Section: 100 / 16

### **More APIs Trivia API and more**

* 151. Introduction to working with AJAX1:51
* 152. Element and Page Setup3:34
* 153. AJAX Make Request Callback3:28
* 154. Connect Get API content4:18
* 155. Output Question format4:58
* 156. Source Code 4
  + index4.html
* 157. Dynamic Build Buttons JavaScript6:19
* 158. JavaScript Dynamically Build Elements4:25
* 159. Source Code 6
  + index6.html
* 160. Tweak Quiz and add Scoring6:05
* 161. Show correct answer6:59
* 162. Source Code Quiz
* 163. More fun with APIs7:10
* 164. AJAX API section conclusion2:40
* 165. Source Code 10
* 166. Section resources

Section: 110 / 27

### **Setup a RESTful API from Scratch Node jQuery JavaScript SQLite**

* 167. Introduction to RESTful API9:14
* 168. Introduction to the Terminal CLI3:17
* 169. Learn NPM Node Package Manager4:23
* 170. Creating a Node project from scratch Create indexjs2:19
* 171. Exploring Node modules5:19
  + lesson1-4.zip
* 172. Setting up HTTP Localhost9:01
  + lesson4.txt
* 173. Read Files output Data4:56
  + lesson5.zip
* 174. Amazing helpful packages Express and Nodemon3:52
  + lesson6.txt
* 175. API web resources Postman CRUD4:22
  + lesson7.txt
* 176. Body Parser npm4:28
  + lesson8.txt
* 177. How to use Middleware app use3:13
  + lesson9.txt
* 178. Simple login check Login CheckSetup4:21
* 179. Create Public index file7:29
  + lesson11.txt
* 180. Static Frontend JavaScript4:51
* 181. Send Data from Front to Back6:57
* 182. Getting Response data4:29
  + lesson13.zip
* 183. Restful API put and Delete CRUD6:30
  + lesson15and15.txt
* 184. Output Data to page4:02
* 185. CRUD Methods Delete and update Data10:39
  + lesson1617.zip
* 186. Tweaks and Put Data8:40
* 187. Updates to Data2:41
  + Lesson19.zip
* 188. Setup a helper file and code refactoring10:02
  + Lesson20.zip
* 189. Updates Styling and Tweaks10:39
  + Lesson21.html
* 190. Add SQLite Database8:33
  + SQLite-Setup-Lesson-22.zip
* 191. Database to Frontend15:26
* 192. Code Review and Resources10:53
* 193. Section Resources

Section: 121 / 15

### **RealTime Message Application Exercise**

* 194. Introduction to real time message exercise7:12
* 195. Node Application Setup3:04
* 196. NPM setup Localhost6:56
* 197. Setup Pusher3:53
* 198. Setup Static index page3:26
* 199. Source Code 4
  + lesson4.txt
* 200. More MiddleWare3:53
* 201. Source Code 5
  + lesson5.txt
* 202. Pusher Trigger3:50
* 203. Push Message to Frontend3:47
* 204. Setup HTML elements3:51
* 205. JavaScript Interactive AJAX10:02
* 206. Load Comments Pusher5:02
* 207. Source Code Review7:59
* 208. Section Resources and Project Final Source Code
  + PusherSourceCode.zip

Section: 130 / 14

### **API request and Fetch Practice Exercise**

* 209. CryptoCurrency API Exercise2:17
* 210. Setup Backend3:00
* 211. Setup Server with Packages3:13
* 212. Setup Static Index file2:25
* 213. HTML frontend code5:50
* 214. Source Code 4
  + lesson4.html
* 215. Output Data to HTML6:19
* 216. Get individual Currency Details5:25
* 217. Node Requests with Routes8:25
* 218. Source Code 7
  + lesson7.html
* 219. Update with New Routes9:15
* 220. More Route Options3:35
* 221. Last Route Setup6:09
* 222. Section resources and Final source code
  + CryptoSourceCode.zip

Section: 141 / 12

### **Twitter API Exercise Get tweets and post to Twitter AJAX**

* 223. Twitter API introduction3:08
* 224. Course Development Environment2:50
* 225. Setup Local Server Nodejs NPM7:18
* 226. Get Packages NPM4:50
* 227. Setup Twitter Developer App10:44
* 228. Output Tweet Object as JSON5:11
* 229. Setup Index Frontend Code7:30
* 230. Output Tweet Data8:01
* 231. Make the tweets look nice Styling2:16
* 232. Post a Tweet from index page9:00
* 233. Twitter API AJAX application Source Code Review7:25
* 234. Section Resources
  + Source Code.zip

Section: 150 / 1

### **Course Review and Conclusion**

* 235. Congratulations on completion of the course1:30