# Randomly Selected Questions - Set 1

**Question 1 (ID: 8.5.10):** Multiple Choice: When using a DELETE request with $.ajax(), which field is not typically included?  
- (A) url  
- (B) type  
- (C) data  
- (D) contentType

**Question 2 (ID: 7.7.5):** Multiple Choice: When making CORS requests, what HTTP header must be included by the browser?  
- (A) Content-Type  
- (B) Authorization  
- (C) Access-Control-Allow-Origin  
- (D) Origin

**Question 3 (ID: 8.3.9):** Multiple Choice: Which of the following tools is NOT typically used for sending HTTP requests and interacting with web APIs?  
- (A) Postman  
- (B) cURL  
- (C) Adobe Photoshop  
- (D) Browsers with developer tools

**Question 4 (ID: 7.3.8):** Fill in the Blank: jQuery's \_\_\_\_\_\_\_\_ method is used to register functions that run once the document is fully loaded and ready.

**Question 5 (ID: 6.2.8):** Multiple Answers: Which npm commands are used for managing packages and dependencies in Node.js projects? Select all that apply.  
- (A) npm install  
- (B) npm start  
- (C) npm update  
- (D) npm run

**Question 6 (ID: 7.6.7):** Short Answer: What is the main difference between XML and JSON in terms of data transport for Ajax requests, and why is JSON more popular?

**Question 7 (ID: 5.2.4):** Short Answer: What is the purpose of the JSON.stringify() method in JavaScript?

**Question 8 (ID: 9.2.4):** Multiple Choice: What encoding technique is used to convert JWT data into a printable format?   
- (A) UTF-8 encoding   
- (B) Binary encoding   
- (C) Base64 encoding   
- (D) URL encoding

**Question 9 (ID: 7.7.4):** Short Answer: What does the "appid" query parameter in the OpenWeatherMap API request represent?  
- The developer's API key.

**Question 10 (ID: 9.3.8):** Code Output: Given the code snippet below, what is the output to the console?  
  
```javascript  
const bcrypt = require("bcryptjs");  
const hash = bcrypt.hashSync("qwerty", 10);  
if (bcrypt.compareSync("Qwerty", hash)) {  
 console.log("Same!");  
} else {  
 console.log("Not the same");  
}  
```

**Question 11 (ID: 6.1.5):** Multiple Answers: Which of the following are server-side technologies? Select all that apply.  
- (A) ASP.NET  
- (B) Python  
- (C) React  
- (D) Java

**Question 12 (ID: 8.1.2):** Multiple Choice: In MongoDB, what is the role of a collection?  
- (A) It is used to store temporary files.  
- (B) It contains a group of related tables.  
- (C) It is a group of related documents.  
- (D) It manages database connections.

**Question 13 (ID: 8.1.6):** Short Answer: What is the maximum size, in megabytes, that a BSON document can have in MongoDB?  
- Correct answer: 16 MB

**Question 14 (ID: 7.6.5):** Multiple Choice: In the code snippet below, which HTTP request method will be sent if the method property is set to "POST"?  
  
```javascript  
$.ajax({  
 url: "search.php",  
 method: "POST",  
 data: { title: "Harry Potter", type: "used" },  
 dataType: "json"  
});  
```  
  
- (A) GET  
- (B) POST  
- (C) PUT  
- (D) DELETE

**Question 15 (ID: 8.7.9):** Short Answer: When a POST request with incorrect data format is made to '/lab/register', what is the expected response message?  
- Answer: {"error": "zip and airQuality are required."}

**Question 16 (ID: 7.3.10):** Fill in the Blank: In jQuery, the \_\_\_\_\_\_\_\_ event can be triggered when the user selects text in an input or textarea element.

**Question 17 (ID: 8.1.4):** Multiple Choice: What data format is MongoDB's internal document storage based on?  
- (A) XML  
- (B) BSON  
- (C) CSV  
- (D) Plain Text

**Question 18 (ID: 7.5.9):** Code Snippet: Given the code snippet below, what is the final order of `<li>` elements in `<ol>` after the code runs?  
```html  
<ol>  
 <li>First</li>  
 <li>Second</li>  
</ol>  
<script>  
 $("<li>New</li>").appendTo("ol");  
 $("<li>Newest</li>").prependTo("ol");  
</script>  
```  
- `<ol><li>Newest</li><li>First</li><li>Second</li><li>New</li></ol>`

**Question 19 (ID: 6.1.4):** Multiple Choice: Which of the following is a factor to consider when choosing a web hosting company?  
- (A) Uptime reliability  
- (B) Source code readability  
- (C) Type of HTML used  
- (D) Variety of CSS frameworks

**Question 20 (ID: 9.2.8):** Fill in the Blank: In the context of browser storage, \_\_\_\_\_\_\_ is used to store data such as a JWT locally in the web browser.

**Question 21 (ID: 5.5.4):** Short Answer: In the given code snippet, what will be displayed in the console if the `findSum(nums, 3, 4)` call throws an exception and is handled by a try-catch block? Provide the output precisely.   
```javascript  
catch(exception) {  
 console.log(exception);  
 console.log("Done!");  
}  
```   
  
- "endlndex is too large."   
 "Done!"

**Question 22 (ID: 6.4.3):** Fill in the blank: The middleware function `express.urlencoded({ extended: false })` is used to parse \_\_\_\_\_\_\_\_\_\_ data in the HTTP request body.

**Question 23 (ID: 9.2.5):** Multiple Answers: Which of the following are true about the jwt-simple module?   
- [ ] It helps in creating and verifying JSON Web Tokens in Node.js.   
- [ ] It is implemented only for password encryption.   
- [ ] It provides methods for encoding and decoding JWTs.   
- [ ] It is a utility for managing user sessions directly.

**Question 24 (ID: 5.2.10):** Fill in the Blank: A common error when generating JSON programmatically is to include a trailing \_\_\_\_\_\_\_\_\_\_ after the list of name/value pairs in a JSON object or after the list of JSON values in a JSON array.

**Question 25 (ID: 7.1.8):** Fill in the Blank: jQuery CDN links often use a minified file version because it \_\_\_\_ faster.

**Question 26 (ID: 9.2.10):** Multiple Choice: Which authentication protocol allows third-party login using existing accounts from providers like Google and Facebook, without creating a new username and password?   
- (A) LDAP   
- (B) OAuth   
- (C) OpenID   
- (D) SAML

**Question 27 (ID: 8.7.4):** Multiple Choice: What response code and message should be returned if the zip is valid but no data exists for it in the database?  
- (A) 200; {"response": "No data found."}  
- (B) 404; {"error": "Not Found."}  
- (C) 400; {"error": "a zip code is required."}  
- (D) 400; {"error": "Zip does not exist in the database."}

**Question 28 (ID: 9.3.1):** Multiple Choice: What is a cryptographic hash function primarily used for when storing passwords?  
- (A) Encrypting passwords for safe storage  
- (B) Converting passwords into a fixed-length hash digest  
- (C) Storing passwords securely in plain text  
- (D) Generating salt values for passwords

**Question 29 (ID: 7.5.2):** Multiple Choice: How do you change the `src` attribute of all `img` elements using jQuery?  
- (A) `$("img").attr("src", "star.png");`  
- (B) `$("img").src("star.png");`  
- (C) `$("img").css("src", "star.png");`  
- (D) `$("img").html("src", "star.png");`

**Question 30 (ID: 8.2.8):** Multiple Answers: Which methods can be used to find a document in Mongoose?   
- (A) Model.find()  
- (B) Model.findOne()  
- (C) Model.findById()  
- (D) Model.findOr()

**Question 31 (ID: 6.3.8):** Fill in the blank: The middleware function used to log information about HTTP requests, as provided in the document, is implemented by \_\_\_\_\_\_\_.  
- (A) morgan

**Question 32 (ID: 7.1.3):** Multiple Choice: Which of the following jQuery tasks involves responding to mouse clicks and typing?  
- (A) DOM Manipulation  
- (B) Animation  
- (C) User Interaction  
- (D) Ajax

**Question 33 (ID: 7.3.1):** Multiple Choice: Which jQuery method allows you to register an event handler for one or more events?  
- (A) addEventListener()  
- (B) on()  
- (C) bind()  
- (D) attach()

**Question 34 (ID: 5.1.3):** Short Answer: Before an HTTP communication begins, what does a web browser perform using the domain name extracted from the URL?

**Question 35 (ID: 5.3.9):** Multiple Choice: In the XMLHttpRequest object, which attribute contains the plain text version of the server response?  
- (A) response  
- (B) responseText  
- (C) responseXML  
- (D) status

**Question 36 (ID: 7.6.3):** Fill in the blank: The jQuery method \_\_A\_\_ is a general purpose method for making Ajax requests and can send HTTP GET, POST, PUT, and DELETE requests.

**Question 37 (ID: 6.3.4):** Multiple Choice: Which directory should static files like HTML and images be stored in for an Express application?  
- (A) node\_modules  
- (B) config  
- (C) public  
- (D) views

**Question 38 (ID: 7.6.4):** Short Answer: What callback method of the jQuery jqXHR object is used to handle failed Ajax requests, often due to 40x or 500 status codes?

**Question 39 (ID: 7.6.10):** Multiple Choice: Which technique is not used for making cross-origin HTTP requests?  
- (A) Proxy server  
- (B) JSONP  
- (C) CORS  
- (D) Static HTML

**Question 40 (ID: 8.7.10):** Multiple Choice: Which Node.js event listener is used to handle the completion of an XMLHttpRequest?  
- (A) "finish"  
- (B) "complete"  
- (C) "load"  
- (D) "end"

**Question 41 (ID: 9.2.9):** Short Answer: Why should passwords never be stored as plain text in a database?

**Question 42 (ID: 5.4.7):** Fill in the Blank: In a CORS request, the web browser includes the \_\_\_\_\_\_\_\_ HTTP header to indicate the origin.  
  
- Answer: Origin

**Question 43 (ID: 7.3.4):** Fill in the Blank: The \_\_\_\_\_\_\_\_ event is triggered when the user releases a key from the keyboard.

**Question 44 (ID: 5.3.3):** Multiple Choice: When an XMLHttpRequest successfully completes, which event handler is triggered?  
- (A) abort  
- (B) timeout  
- (C) load  
- (D) error

**Question 45 (ID: 8.5.6):** Multiple Choice: Which HTTP verb is used with the Music API to delete a song by its ID?  
- (A) GET  
- (B) POST  
- (C) PUT  
- (D) DELETE

**Question 46 (ID: 9.3.4):** Short Answer: Why should plain text passwords never be stored in a database?

**Question 47 (ID: 5.3.2):** Fill in the blank: The object used for communicating with web servers using Ajax is \_\_\_\_\_\_\_\_\_\_.

**Question 48 (ID: 8.5.7):** Short Answer: What method from jQuery allows you to reset all form fields after successfully updating a song?

**Question 49 (ID: 6.1.1):** Multiple Choice: Which of the following technologies is NOT considered a client-side technology?  
- (A) HTML  
- (B) CSS  
- (C) JavaScript  
- (D) PHP

**Question 50 (ID: 9.1.2):** Multiple Choice: What will `sessionStorage.getItem("name")` return if the key "name" does not exist?  
- (A) undefined  
- (B) null  
- (C) false  
- (D) ""

# Answers

**Answer to Question 1:** (C) data

**Answer to Question 2:** (D) Origin

**Answer to Question 3:** (C) Adobe Photoshop

**Answer to Question 4:** ready()

**Answer to Question 5:** (A) npm install, (C) npm update

**Answer to Question 6:** JSON is more popular than XML because it has a more compact structure, making efficient use of network bandwidth.

**Answer to Question 7:** The JSON.stringify() method in JavaScript is used to convert a JavaScript object into a JSON string.

**Answer to Question 8:** (C) Base64 encoding

**Answer to Question 9:** The developer's API key.

**Answer to Question 10:** Not the same

**Answer to Question 11:** (A) ASP.NET; (B) Python; (D) Java

**Answer to Question 12:** (C) It is a group of related documents.

**Answer to Question 13:** 16 MB

**Answer to Question 14:** (B) POST

**Answer to Question 15:** {"error": "zip and airQuality are required."}

**Answer to Question 16:** select

**Answer to Question 17:** (B) BSON

**Answer to Question 18:** `<ol><li>Newest</li><li>First</li><li>Second</li><li>New</li></ol>`

**Answer to Question 19:** (A) Uptime reliability

**Answer to Question 20:** localStorage

**Answer to Question 21:** "endlndex is too large." "Done!"

**Answer to Question 22:** URL-encoded

**Answer to Question 23:** It helps in creating and verifying JSON Web Tokens in Node.js., It provides methods for encoding and decoding JWTs.

**Answer to Question 24:** comma

**Answer to Question 25:** downloads

**Answer to Question 26:** (C) OpenID

**Answer to Question 27:** (D) 400; {"error": "Zip does not exist in the database."}

**Answer to Question 28:** (B) Converting passwords into a fixed-length hash digest

**Answer to Question 29:** (A) `$("img").attr("src", "star.png");`

**Answer to Question 30:** (A) Model.find(), (B) Model.findOne(), (C) Model.findById()

**Answer to Question 31:** (A) morgan

**Answer to Question 32:** (C) User Interaction

**Answer to Question 33:** (B) on()

**Answer to Question 34:** DNS lookup

**Answer to Question 35:** (B) responseText

**Answer to Question 36:** $.ajax()

**Answer to Question 37:** (C) public

**Answer to Question 38:** fail()

**Answer to Question 39:** (D) Static HTML

**Answer to Question 40:** (C) "load"

**Answer to Question 41:** Storing passwords as plain text poses a security risk because if the database is compromised, attackers can easily access all user passwords.

**Answer to Question 42:** Origin

**Answer to Question 43:** keyup

**Answer to Question 44:** (C) load

**Answer to Question 45:** (D) DELETE

**Answer to Question 46:** Plain text passwords should not be stored because they can be easily accessed and misused by unauthorized individuals during a data breach.

**Answer to Question 47:** XMLHttpRequest

**Answer to Question 48:** $("form").trigger("reset");

**Answer to Question 49:** (D) PHP

**Answer to Question 50:** (B) null