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Answer 1:

Code Github Link:

Answer 2:

Documentation in the code itself  
Github Link:

Answer 3:

* Developing a REST API for sending text file over HTTP using a POST call.
* Building a simple web page to upload file via HTTP.
* Generating some Metadata for the text file   
  POST  
  HOST: [www.xyz.com](http://www.xyz.com)  
  Authentication: Bearer some-token (Security aspect)  
  Content-type: text/html
* Sending this data packet over HTTP to a backend server.
* Storing the file in a database temporarily.
* Iterating over the file and storing results in JSON format.
* Sending response over HTTP as response.

Answer 4:

Answer 5:

Test Cases:

Github Link:

Answer 6:

Solution 1:

Server-side Rendering

* We can design the system to provide server-side rendering.
* We can build a web server which will make all the 5 ajax calls to the external REST API to generate data and then render the HTML page sending it to the client.
* Server-side rendering will help us to load the webpage with HTML, CSS, layout, JavaScript and DATA already embedded in HTML.
* Advantage will be that user will see all the data before.
* Disadvantage will be less efficient response time.

Solution 2:

Client-Side Rendering

* Hiding the initial HTML page using display:none for body.
* Developing a callback function which has the other 4 ajax calls inside it.
* On completion of these calls we can change the display to visible.