Spring Boot Generate Excel with React fetch blob.

To create a Spring Boot backend that allows you to fetch an Excel file and then fetch that file from a React frontend, you can follow these steps:

You can use Spring Initializer or your preferred method to create a new Spring Boot project with the necessary dependencies. You'll need dependencies like Spring Web, Spring Data JPA (if you want to interact with a database), and any other dependencies specific to your application.

2. Create a Controller to Generate Excel:

Create a controller that generates the Excel file. You can use a library like Apache POI to create the Excel file. Here's a basic example:

```
import org.apache.poi.ss.usermodel.*;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.springframework.http.HttpHeaders;
import org.springframework.http.MediaType;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
@RestController
public class ExcelController {
   @GetMapping("/download-excel")
   public ResponseEntity<byte[]> downloadExcel() throws IOException {
       // Create a new Excel workbook and sheet
       Workbook workbook = new XSSFWorkbook();
       Sheet sheet = workbook.createSheet("SampleSheet");
       // Create sample data (you can replace this with your own data)
       Row row = sheet.createRow(0);
       row.createCell(0).setCellValue("Name");
       row.createCell(1).setCellValue("Age");
       row = sheet.createRow(1);
       row.createCell(0).setCellValue("Meduim");
       row.createCell(1).setCellValue(30);
       // Write the workbook to a ByteArrayOutputStream
       ByteArrayOutputStream stream = new ByteArrayOutputStream();
       workbook.write(stream);
       // Set response headers
       HttpHeaders headers = new HttpHeaders();
       headers.setContentDispositionFormData("attachment", "sample.xlsx");
       return ResponseEntity.ok()
             .headers (headers)
              .body(stream.toByteArray());
```

3. Configure CORS (if needed):

If your frontend is hosted on a different domain, configure CORS (Cross-Origin Resource Sharing) in your Spring Boot application to allow cross-origin requests.

4. Run Your Spring Boot Application:

Start your Spring Boot application. You should be able to access the Excel file at http://localhost:8080/download-excel

React Frontend:

• Create a React Project:

Create a new React project using Create React App or your preferred method.

2. Fetch the Excel File:

In your React component, you can use the fetch API to fetch the Excel file from your Spring Boot backend and convert it to a blob.

```
import React, { useEffect } from 'react';
function App() {
   const downloadExcel = () => {
       // Fetch the Excel file with .xls extension
       fetch('http://localhost:8080/download-excel-xls', {
           method: 'GET',
           responseType: 'blob', // This is not a standard option; you might need to handle it differently
            .then((response) => response.blob())
            .then((blob) \Rightarrow {
                // Create a blob URL and create a link element to trigger the download
                const blobUrl = window.URL.createObjectURL(blob);
               const a = document.createElement('a');
               a.style.display = 'none';
                a.href = blobUrl;
                a.download = 'sample.xls'; // Set the desired file name with .xls extension
                document.body.appendChild(a);
                window.URL.revokeObjectURL(blobUrl);
            })
            .catch((error) => {
               console.error('Error fetching Excel file:', error);
   };
   useEffect(() => {
       downloadExcel();
    }, []);
   return (
       <div className="App">
          <h1>Fetch Excel File Example</h1>
       </div>
   );
export default App;
```

- 3. We fetch the Excel file from the server using the URL http://localhost:8080/download-excel-xls . Ensure that your Spring Boot backend has a new endpoint (/download-excel-xls) that generates and returns an Excel file with the extension.
- 4. After fetching the blob, we create a blob URL using window.URL.createObjectURL(blob).
- 5. We create a hidden <a> element and set its href to the blob URL, specify the download attribute with the desired file name including the .xls extension, and trigger a click event to initiate the download.
- 6. Finally, we revoke the blob URL to release resources.

Remember to update your Spring Boot backend to generate and serve the Excel file with the <code>.xls</code> extension when requested from the <code>/download-excel-xls</code> endpoint. You'll need to use a library like Apache POI with the <code>.xls</code> format for this purpose.