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Saving Files To System in Spring Boot

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This article will teach us how to use Spring Boot and REST to upload and download files, including PDFs, zip files, and photos. Examples of uploading and downloading both single and multiple files will be provided by the implementation. During the upload process, we will be presented with the option to store the file in the database or on the local file system using the Spring framework's resource. For this little tutorial, PostgreSQL will be used.

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Prerequisite Requirements :

1: Build an application with Spring Boot and incorporate the Spring Web services;

2: Add the necessary dependencies (PostgreSQL, JPA, etc.).

Step 3: Make a Spring @Controller instance;

4:-Create a @Service class and write the logic for both file uploading and file retrieval there.

5:- Include a method in the controller class that accepts an argument representing Spring's MultipartFile;

6:- Save the file that was uploaded to a local directory; and

7: Ensure that the client receives a response code verifying the successful upload of the Spring file.

The steps we should Follow :-

1: We must first decide where in our system we wish to store the files that we upload. This is defined in the application.properties file.

2: After that, we must construct an entity class using the following:

3: After that, we expanded the JpaRepository by creating a repository interface. This provides us with a range of common techniques for CRUD actions that we can apply to our Document entities.

4: We need to develop two methods in the service class: one for uploading images to the local system and storing the picture name in a database, and another for retrieving images based just on their names.

5:-Create the controller class now, calling the two methods from the controller in the manner as follows:-

You can upload and download files from your local system in this manner.

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	Lazy vs Eager	Bidirectional vs Unidirectional	When to Avoid	Others
OneToOne	Depends	Bidirectional Only with PrimaryKeyJoin	In all cases, except to lazy load big table	• Change to Embeddable, if possil • Set optional to false, if required
ManyToOne	Change to Lazy	Bidirectional only within an aggregate	Unnecessary bidirectional from OneToMany	• If using bidirectionaly, use helpe function to keep both relationsh in sync.
OneToMany	Leave Default (Lazy)	Bidirectional only within an aggregate	Unnecessary bidirectional from ManyToOne	• If using bidirectionaly, use helpe function to keep both relationsh in sync. • Initialize with Empty Collection
ManyToMany	Leave Default (Lazy)	Unidirectional, if possible	N/A	• Initialize with Empty Collection • Use Set, if possible

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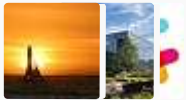

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Software Development Engineer   Mar. 2020 – May 2021
  • Developed Amazon checkout and payment services to handle traffic of 10 Million daily global transactions
  • Integrated Iframes for credit cards and bank accounts to secure 80% of all consumer traffic and prevent CSRF, cross-site scripting, and cookie-jacking
  • Led Your Transactions implementation for JavaScript front-end framework to showcase consumer transactions and reduce call center costs by $25 Million
  • Recovered Saudi Arabia checkout failure impacting 4000+ customers due to incorrect GET form redirection

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NinjaPrep.io (React)
  • Platform to offer coding problem practice with built in code editor and written + video solutions in React
  • Utilized Nginx to reverse proxy IP address on Digital Ocean hosts
  • Developed using Styled-Components for 95% CSS styling to ensure proper CSS scoping
  • Implemented Docker with Seccomp to safely run user submitted code with < 2.2s runtime

HeatMap (JavaScript)
  • Visualized Google Takeout location data of location history using Google Maps API and Google Maps heatmap code with React
  • Included local file system storage to reliably handle 5mb of location history data
  • Implemented Express to include routing between pages and jQuery to parse Google Map and implement heatmap overlay

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