

Imgy

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Description

This project creates a clone of the popular Imgur photo sharing site.



Features

- Rest API written in Java that enables CRUD operations on MySQL database
- React frontend that dispatches ajax calls to Rest API
- Uses 3rd party node modules to dispatch ajax calls and enable image file uploading by dragging image to an upload area



Planning - User Stories

Users can navigate site using links in header bar

Users can upload image files to site via upload link in header bar. Non-image files are rejected.

Users can view all image files uploaded by other users



Planning - Database

DB uses a Users table and a Posts table. Posts table has a foreign key to Users table to enable Rest API calls that can retrieve only the posts by a specific user.

The Posts table contains a CLOB field that stores the base64 encoded representation of an uploaded image file.



Technology Stack

- Languages: Java, JavaScript and React
- Framework: JPA
- Template engine: N/A
- Database: MySQL
- Other libraries or components: Axios and react-dropzone node modules



Demo



What I Learned

- How to use React to create frontend and dispatch ajax calls to Rest API
- How to base64 encode an image, store it in a database, retrieve it again for display
- How to create a Restful API to do CRUD operations on database



What's Next

- Add a post detail page that displays image enlarged
- Add commenting feature that lets users comment on each others posts
- Enable users to add a description to go along with their image post
- Enable users to register and login to associate posts with themselves

