NOVOLYTICS

Assignment - Full Stack Developer

Problem statement: Create a working Image Carousel Customizer using the images from the free Unsplash library as shown in the mockup.

1. Create a list of 10 categories from the Unsplash library. For each category, maintain a hard coded entry or DB Entry of the number of images in the backend per category and create an API on top of it. (Eg: {categoryA: 10, categoryB: 8} , etc)
2. The top - left dropdown bar shows a list of categories. Selecting a category will first fetch the number of images(X) configured in the backend using the API created in pt1.
3. Load the X images from that category into the left hand panel under files.
4. The left hand panel shows a list of image fi;es, which gets loaded on API call with pagination.
5. The main section initially shows a carousel of 8 images (first 8 from the list), however, there is no upper limit on it once the user adds more images
6. The user can remove an image from the carousel by dragging it from the carousel and dropping it on the left panel.
7. The user can add an image in the carousel by dragging an image from the left panel onto the carousel section.
8. Clicking on the left or right button should rotate the loaded images into the main container
9. At least one image should be present in the carousel.

Notes:

1. Unsplash is a free image library which allows api based access to fetch images.
2. You will have to create an account on “Unsplash”, create a demo app and call their APIs to get the images by search query using the keys in the demo app created.
3. Please use ReactJS for building the frontend and NodeJS for backend.
4. Please structure your codebase properly with components, models, apis, libraries, if any.
5. Please define the success and error messages sections carefully and use those.
6. Please initialize the Git project and keep performing regular commits as we also want to check your coding/development process.
7. Please include a README.md file in the git project describing the steps to perform in order to execute the service locally. It would be better if you can include a script (considering linux environment), executing which the service should start up. Npm commands would also suffice here.
8. Categories could be Phones, Landscapes, People, Beach, etc . You should use your imagination to make the entry for these categories in the database with assumed number of images per category.

Extension:

The above is the primary problem statement. If you have completed it within the timeframe, here is the extension of the problem:

- Provide a button for “Export” and a button for “Import” in the navbar. The user can export the created carousel into a JSON file and the user can import a JSON file to create the same carousel (with the same set of images) into the UI. You can define the json schema yourself and make suitable assumptions