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DATA FLOWS IN THE INFORMATION SYSTEM FOR MANAGING MULTIMEDIA CORPORATE CONTENT

The input data of the web application are:

1 seeds.js file. The structure of the file: there are 3 arrays of objects: users, photos and videos that are entered into the database after its preliminary cleaning. The database is populated in accordance with the data schemas; therefore, three collections are created in the MongoDB database.

2 Forms for creating a new recording. This option is allowed only for admin. The first input field is a category, where admin can choose one of the existing or create a new category. All subsequent fields are filled in according to the data schema.

3 Login and registration forms. After registration, the user is automatically assigned the «user» role.

The following pages are the output data:

1 The home page. The main page contains information such as a header with a navigation bar and a search field, a list of all records from the database entered into the appropriate categories and the footer.

2 The page with the list of users. This page contains information about all existing users in the system. The option to view, edit and delete users is allowed only for admin.

3 The single post page. The page contains all the information about database record. The page with single video includes title, video, number of likes, add to playlist button and block of user's comments.

Based on the data schemas, the routes folder is created, which stores the files responsible for the business logic of the application: auth.js, video.js, photo.js, user.js, admin.js. All the files from the routes folder are connected to the app.js file which is the main file of the application's server side. The server side of the application is implemented using Node.js + Express.

Next, the data is transferred from the backend to the frontend into React components, where the data is processed using axios. Axios is a well-known JavaScript library. It is a promise-based HTTP client for browsers and Node.js. All components are connected to the App.js file, from which all data is passed to the browser.