VIDEO ANALYTICS - DSAID - GOVTECH

FULLSTACK DEVELOPER INTERVIEW – TECHNICAL TEST

Create a video upload web application using React and Node.js that does the following:

- 1. A multi-step wizard form to allow user to upload a video to a server;
- 2. In the first step of the form:
 - Allow user to select a video, and display a thumbnail of the selected video, as well as the show the filename of the video:
 - Allow user to enter the following metadata of the video
 - video title (required),
 - video start date time (required),
 - video location (i.e. postal code) (optional);
 - All data entries must be validated;
- 3. In the second step of the form:
 - Display some Terms and Conditions [you can specify] with a tick box for user to indicate that he/she agrees to them;
 - Allow user to navigate back and forth between the first and second steps of the form to make amendments before upload;
- 4. In the third step:
 - Begin uploading the video to a back-end server, showing a progress bar to indicate the percentage process based on the no. of bytes uploaded;
 - The backend should store the video in the file system on the server-side and store the video metadata a relational database (can be SQLite, PostgreSQL or MySQL);
 - The backend should validate the posted metadata before storing to DB;
 - At the end of upload, show a success message or failure message based on response from the back-end server;

Additional requirements:

- 1. You can use existing React frameworks, but do not use any prebuilt upload component or library in React or jQuery. You should build the upload component from scratch.
- 2. You can use Webpack or any other compiling tool to pack your code.
- 3. You can use any CSS pre-processors or CSS frameworks (like Bootstrap), any web fonts, icons or images to style up the components.
- 4. Design and develop your component with usability in mind. Display your controls and content with proper style and layout, so that the component is friendly to the user.
- 5. For the server-side code, you can develop from scratch using Node.js, Express or any Node.js back-end frameworks.
- 6. You can make use of ORM frameworks if you know how to do so.
- 7. Make use of TypeScript to properly define the types and validate your data on server-side if you know how to do so.