**PROJECT DESCRIPTION**

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**Project title: Online Video Platform**

**Project description (typically 100 words):**

This project aims to develop a robust and secure platform where any user can register and login to share and explore videos. The Platform will provide a seamless experience for uploading, storing and streaming videos. To Ensure security of the data stored, the project will be using industry standard encryption technique such as SSE-KMS in Aws S3. Java will be used for backend development, Spring-boot will be used as a framework to develop scalable and efficient server-side infrastructure. Angular will be used for front-end development to provide a modern user interface. Storage is an important aspect for this project, AWS S3 will be used for video storage, and AWS RDS (MySQL Engine) will be used for user data and meta data of the videos uploaded by any user. The targeted end platform should be secure, user-friendly product.

**List of requirements (objectives):**

Essential

* Implementing User authentication and Encrypting Object Storage.
* Developing a User-friendly Interface.
* Designing a searching mechanism to browse through videos
* Designing and implementing a robust database schema to manage user data and video data.
* Implementing advanced search functionality for videos based on metadata and user data.

Recommended

* Optimizing the platform for scalability and improving consistency and availability of the system.
* Integrating recommendation algorithm to suggest personalised video content.

Optional

* Implementing video transcoding to support multiple video formats.
* Integrating recommendation algorithm to suggest personalised video content.
* Implementing advertising mechanism, ad placements to generate revenue.

Date: 11/06/2023 Date:

Student signature: Robin Hedwig Prabhakar Supervisor signature: