Cloud Application Development

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Submitted to:-

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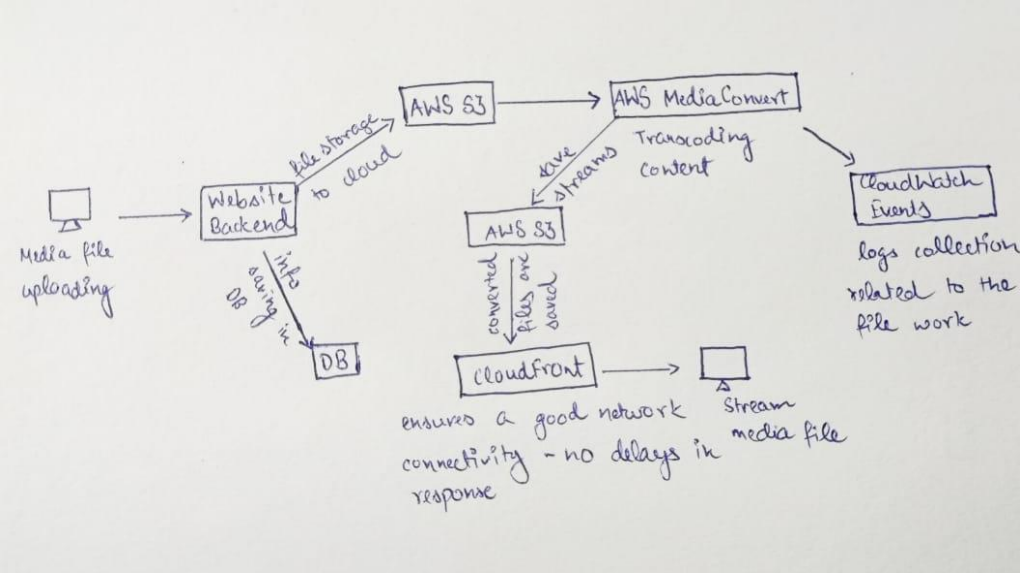
Week 2 Assignment

Q. As a final project output, you are expected to upload your designed applications on the public cloud (AWS/Azure). Hence, you need to analyze and explain which application platform you will follow and why?

- **Architecture of the project: -**

In the project Aws services such as S3, DB, CloudFront, Media Convert etc. will be used as described in the flowchart that gives the high-level overview of the application that I am aiming to achieve:



A streaming website that uses AWS cloud services mentioned above is likely to be MIMD (Multiple Instruction Multiple Data) for the reasons discussed further.

- **Why will it be MIMD :**

MIMD refers to a type of parallel computing architecture in which multiple processors perform different tasks simultaneously, each with its own set of instructions and data. In the case of a content streaming website, the different tasks could include video encoding, storage, delivery, management etc.

AWS CloudFront and Media Convert are designed to work together to deliver content quickly and efficiently. CloudFront is a content delivery network that speeds up the delivery of your

static and dynamic web content. Media Convert is a video encoding service that can convert video files from one format to another, to optimize the video for streaming.

By using these AWS services, the content streaming website can leverage the power of the cloud to handle multiple tasks and deliver video content to a large number of users simultaneously. Each task is performed independently, allowing the website to scale and handle increased demand without affecting the overall performance.

Therefore, a content streaming website that uses AWS cloud services such as S3, CloudFront, and Media Convert will be MIMD, as multiple processors perform different tasks simultaneously and independently.