**Video on Demand(VoD) Platform Requirements Documentation**

# 1. Introduction

**1.1 Project Overview**

The Project is to create a B2B SAAS application that enables

content partners to register themselves. Content partners should be able to upload, process and deliver content to various OTT platforms.

**1.2 Scope of the Project**

Current scope of this project work is to design and develop a system to enable creation of Content Partners(CP) , Platforms(OTT platforms) and register CP with OTT platforms.

# 2. Functional Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement No** | **Requirement** | **Weightage** | **Priority** |
| **FR001** | **Accept Name**  **of the organization as part of Registration** | **40%** | **P0** |
| **FR002** | **Accept Location as part of registration** | **30%** | **P1** |
| **FR003** | **Accept Contact details as part of registration.** | **30%** | **P0** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Contact details should include person name, corporate emailId and Contact number** |  |  |
| **FR004** | **Content partner**  **Login: Name** | **10%** | **P0** |
| **FR005** | **Content partner Login:**  **Location** | **10%** | **P0** |
| **FR006** | **Content partner Login: Contact details (Person name, Email, and Phone numbers)** | **20%** | **P1** |
| **FR007** | **Delivery Type:**  **Aspera/S3/GC**  **P/SFTP/IBM**  **FASPEX** | **10%** | **P0** |
| **FR008** | **Assets Upload location: Customer location/Our location** | **10%** | **P0** |
| **FR009** | **Metadata format: xls/csv/json/x ml/cable** | **10%** | **P0** |
|  | **labs/mRSS** |  |  |
| **FR0010** | **Master File format (video)** | **5%** | **0** |
| **FR0011** | **Audio File formats** | **5%** | **0** |
| **FR0012** | **Caption file formats** | **5%** | **0** |
| **FR0013** | **Username** | **10%** | **P0** |

# Platform

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirement No** | **Requirement** | **Weightage** | **Priority** |
| **1** | **Register/Login:**  **Name** | **10%** | **P0** |
| **2** | **Register/Login: Location** | **10%** | **P0** |
| **3** | **Register/Login: Contact details**  **(Person name,**  **Email, and**  **Phone numbers)** | **20%** | **P1** |
| **4** | **Delivery Type:**  **Aspera/S3/GCP/**  **SFTP/IBM**  **FASPEX** | **10%** | **P0** |
| **5** | **Assets Upload location: Customer location/Our location** | **10%** | **P0** |
| **6** | **Metadata format: xls/csv/json/xml/** | **10%** | **P0** |
|  | **cable labs/mRSS** |  |  |
| **7** | **Master File format (video)** | **5%** | **0** |
| **8** | **Audio File formats** | **5%** | **0** |
| **9** | **Caption file formats** | **5%** | **0** |
| **10** | **Username** | **10%** | **P0** |
| **11** |  | **10%** | **P0** |

**Content Providers:**

* Content providers can register and upload video files, audio files, and associated metadata.
* Metadata includes video descriptions, audio descriptions, and captions.
* Support for metadata formats like JSON and XML, etc.

**Input and Processing:**

* Input video files in common formats(e.g., MP4).
* Embed captions(e.g., SRT files).
* Deploy microservices to process and distribute assets.

**2.2 User Management**

**Authentication:**

* Login and registration services with security features.

**2.3 Video Delivery and Playback**

* Adaptive streaming based on user bandwidth.
* Metadata-driven recommendations to enhance content discovery.
* Multi-device playback support.

**2.4 Third-party Integrations**

* Integration with SaaS for content creation and delivery.

## 3. Technologies

|  |  |
| --- | --- |
| **Backend** | Go language |
| **Frontend** | React.js |
| **Database** | NoSQL(MongoDB) |
| **Metadata Processing** | JSON,XML,etc |

## 4. Design

**Microservices:**

* Modular architecture for handling metadata, content uploads, and playback separately.

**Scaling:**

* Horizontal scaling for users.
* Vertical scaling for content and processing needs.