

Brief Mandatory Requirements for Personalized Video Recommendation System (Release/version 1)

Note:

- **Please provide additional details to ensure each requirement is testable.**
- **We assume that your list already covers the mandatory requirements; if so, no need to remove them. You can put ones, which are not in the list, any additional requirements not listed can be included in future plan (release/version 2.xx) to ensure the platform evolves smoothly.**

1. End users

- **User registration and authentication:** Users (Viewers) should be able to create an account easily and securely.
- **Browsing and search functionality:** Users should be able to browse through a wide variety of videos easily.
- **Personalized recommendations:** The platform must provide personalized video recommendations based on user interests, viewing history, and preferences.
- **Video play:** The platform should support video watching with different options, like different devices, adjusting video resolution, speed, based on the user's internet connection.
- **Video interaction:** Users should be able to like, comment on, and share videos easily.
- **Get notification:** Users should be able to subscribe the video publishers and get notifications about new videos, comments, or activities related to their interests.
- **Report video:** Users should be able to report the inappropriate videos.

2. Some other mandatory requirements for end-user if they are also content creators:

- **Video upload:** The platform should be able provide a user-friendly interface for content creators to upload their videos. This feature should support various video formats and sizes while ensuring efficient and reliable upload speeds.
- **Video management tools:** Content creators need tools to manage their uploaded videos. This includes features such as video editing capabilities, metadata management (title, description, tags), and the ability to schedule or unpublish videos as needed.

- **Channel customization:** Content creators should have the option to customize their channel profile, including profile picture, cover photo, and channel description.
- **Monetization mechanism:** Content creators may seek to monetize their content through various means, such as advertising, subscriptions, or direct donations.

3. Mandatory requirements for administrators:

- **User management:** The platform should have tools to manage user accounts.
- **Content monitoring:** Administrators must be able to monitor and moderate user-generated content to ensure it complies with community guidelines, legal regulations, and platform policies.
- **Technical maintenance:** they should be responsible for maintaining the technical infrastructure of the platform, including regular updates, backups, and security patches. This ensures the platform remains stable, secure, and accessible to users.
 - a. **Security measures:** robust security measures to protect the admin dashboard from unauthorized access
 - b. **Backup and recovery:** establish backup and recovery procedures.
- **User Support:** Administrators should provide comprehensive user support.

A couple of mandatory non-functional requirements of the platform, please provide details to explain each, for example, how do they integrate into the platform.

Privacy
Performance
Reliability
Security
Compatibility
Usability (Accessibility)

.... and more

(you can add more as long as it makes sense)