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WOMEN'S SELF DEFENCE TRAINING PORTAL

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ABSTRACT

Nowadays, extracting useful information from videos is very important. However, existing data mining techniques cannot be directly applied to videos. This proposed work uses different data mining algorithms for indexing, clustering, searching and retrieving content-based videos. The aim of our project is to provide a Women's Self-Defence Training Portal where users can watch, like, dislike, and share self-defence training videos uploaded by the admin. This platform empowers women by offering easy access to essential safety techniques and improving content based on user feedback.

In this system, only the admin can upload videos to a cloud server. Videos are categorized and uploaded automatically based on a schedule set by the admin. Users can watch videos online and rate them. The system analyzes these ratings and automatically removes less popular videos to save users' time. Additionally, users can share videos with other registered users directly within the system, without needing any external platform.

Keywords: Content-Based Video Retrieval, Data Mining, Self-Defence Training, User Feedback, Cloud Storage, Video Rating.

I. INTRODUCTION

Digital content has made videos a powerful tool for education, awareness, and skill development. A structured and accessible self-defence training is provided through instructional videos, introduced via a cloud-based portal. Structured and accessible self-defence training is provided through instructional videos.

Videos are uploaded and categorized by the admin, allowing users to search. The system analyzes user ratings to remove less popular videos automatically, in order to maintain high-quality content. A self-defence platform empowers women with essential skills. This platform is made easily accessible for self-defence training and encourages engagement through features like rating and sharing. Cloud technology provides a secure and scalable solution for managing and distributing educational content efficiently. This portal empowers women by providing them with the knowledge and skills necessary for self-protection, fostering a sense of security and confidence in their daily lives.

II. PROPOSED APPROACH

Our project has several modules, each module is created as per the requirement of the system and also to increase efficiency and security.

1. User Registration Module
2. User Login Module
3. Admin Login Module
4. Video Management Module
5. Video Interaction Module
6. Admin Login Module
7. Authenticate Module
8. Cloud Server Integration Module

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III. MODELING AND ANALYSIS

Model and Material which are used is presented in this section. Table and model should be in prescribed format.

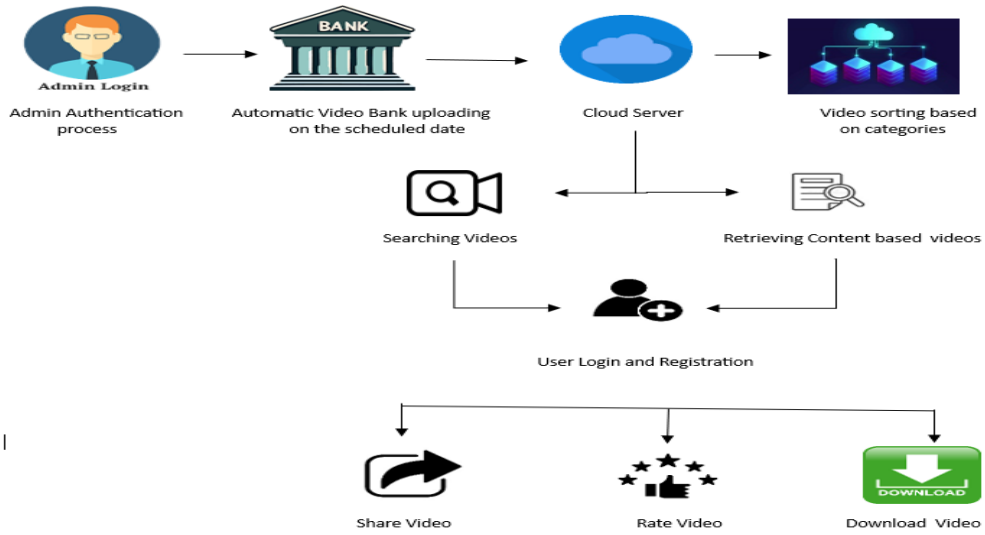

Figure 1: Block Diagram

1. User Registration/Login – Users first register or log in to the system to access training content securely.
2. Authentication Module – The system verifies user credentials using multi-factor authentication to ensure secure access.
3. User Dashboard – After logging in, users are directed to a dashboard where they can explore training resources.
4. Video Management (Admin Side) – Admins upload training videos manually or through auto-scheduled uploads.
5. Video Sorting & Categorization – Uploaded videos are organized into categories for easy browsing and access.
6. Content Retrieval/Search – Users can search for videos based on keywords or topics of interest.
7. Video Viewing & Interaction – Users watch training videos, rate them, and can download them if needed.
8. Video Sharing – Users can share helpful videos with others in the platform's community.
9. Content Filtering Module – The system automatically removes low-rated or less popular videos to maintain quality.
10. Cloud Storage – All videos and data are stored securely on a cloud server, ensuring fast and reliable access.
11. Log Out / Exit – Users can log out securely once training or browsing is complete.

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IV. RESULTS AND DISCUSSION

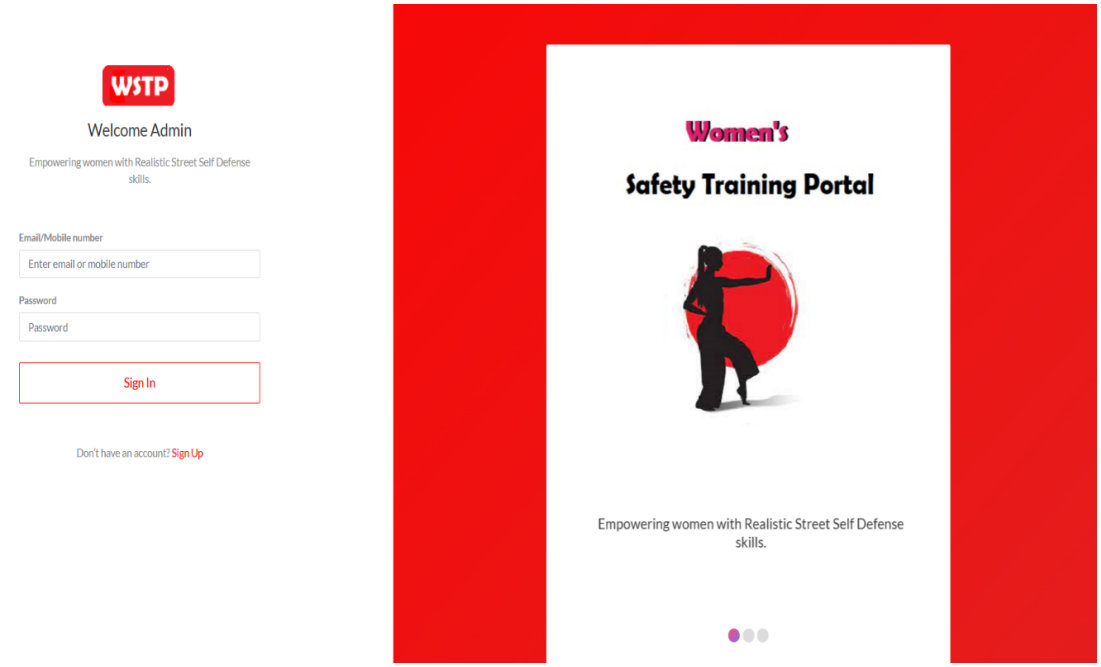

Figure 2: Admin Login Page

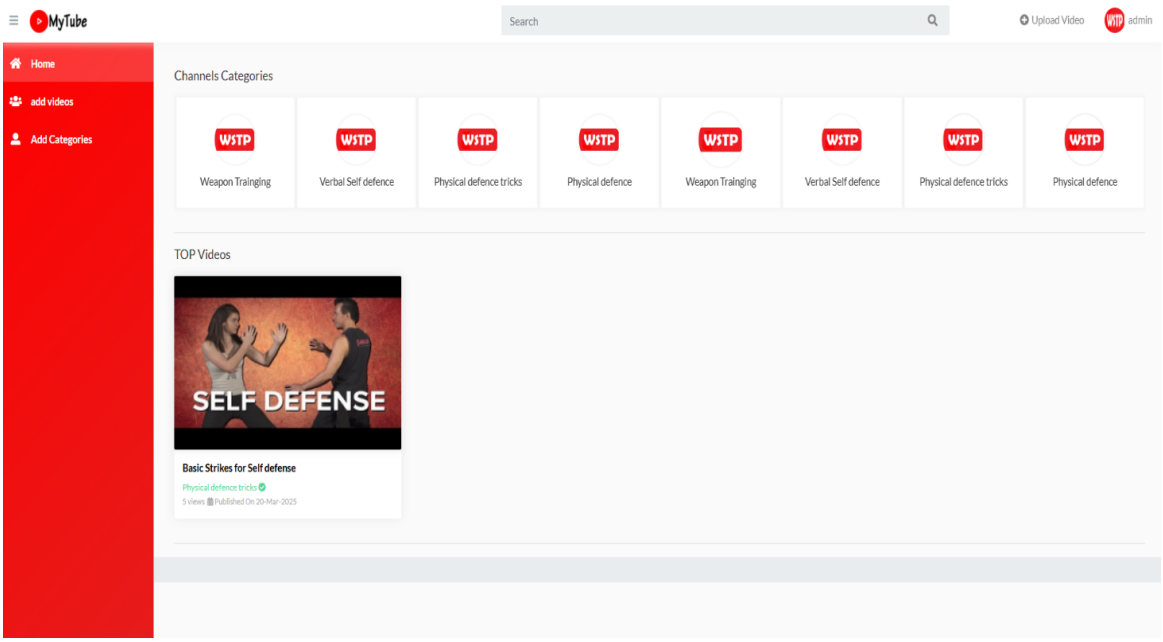

Figure 3: Admin Home Page

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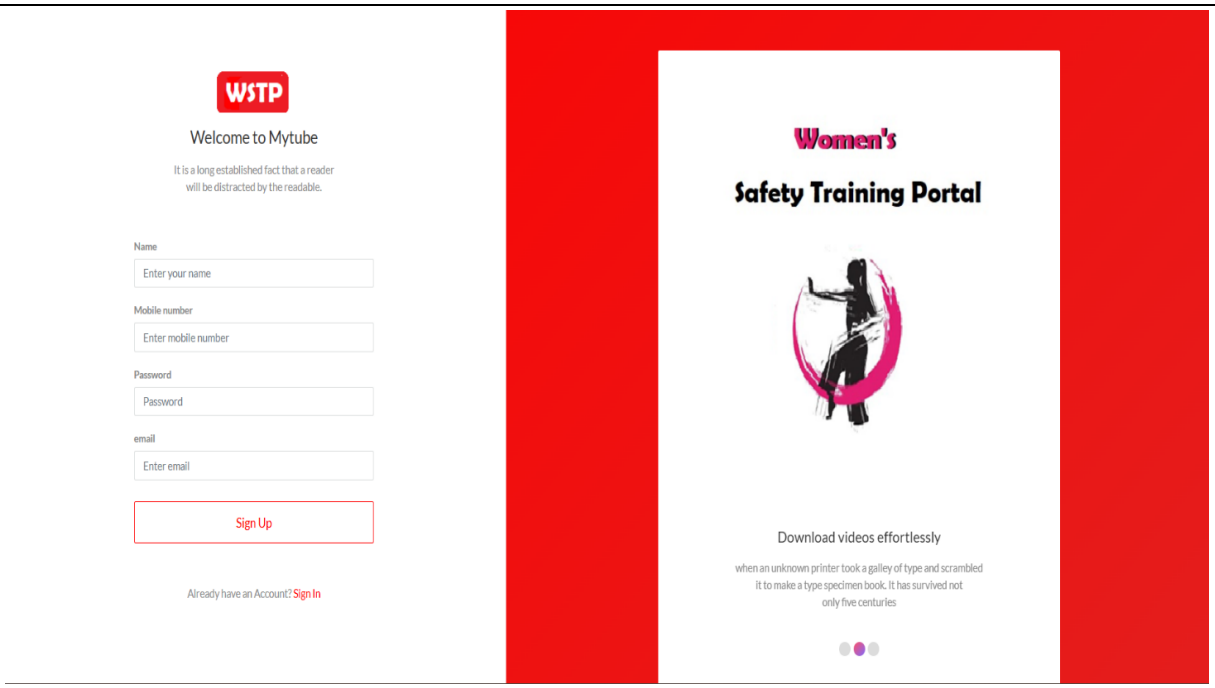

Figure 4: User Registration Page

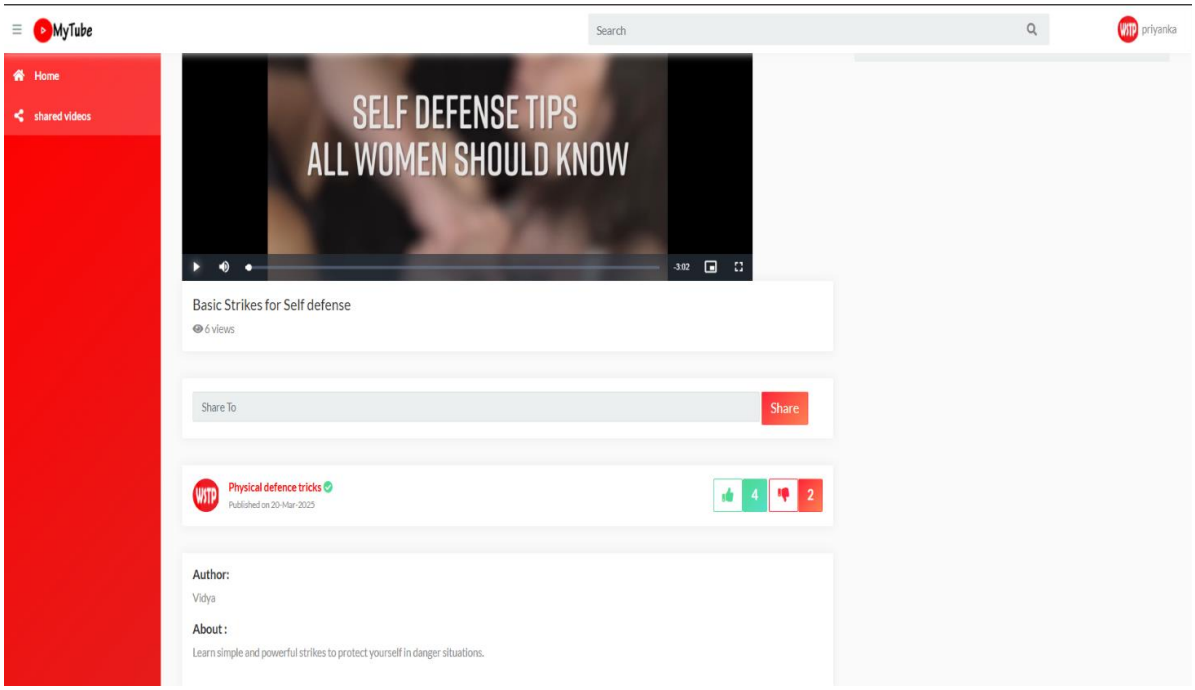

Figure 5: User Home Page

V. CONCLUSION

Digital women's self-defence training has revolutionized learning, making it more accessible, interactive, and secure. Skill retention is enhanced by video-based instruction, while easy and safe access to training materials is ensured by cloud storage. Advanced search features, AI-driven recommendations, and VR simulations create a personalized and immersive learning experience. With continuous advancements in technology, women are finding that digital self-defence training becomes an effective and empowering tool, equipping them with essential skills to enhance their safety and confidence.

VI. REFERENCES

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