

Project Title	SnipX : Automated Video Editing Web App
Supervisor Name	Mr.Wahab Ali
Group information	
Roll number	Student's Name
221567	Jawad Manzoor
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Module's Name	Module Description with Deliverables
React Web App	<ul style="list-style-type: none"> • Developed a user-friendly and responsive front-end using React.js. • Integrates seamlessly with Flask backend and MongoDB. • Supports file upload, preview, editing features, and download of final video. • Deliverables: <ul style="list-style-type: none"> • Functional front-end with navigation and UI/UX design. • Integration with backend APIs for video processing
Authentication	<ul style="list-style-type: none"> • Secure sign-up and login system using JWT-based authentication. • Ensures only registered users can access premium features. • Passwords are hashed for security. • Deliverables: <ul style="list-style-type: none"> • Login and registration forms. • Token-based user session management.
Subtitles	<ul style="list-style-type: none"> • Utilizes speech-to-text APIs trained on Urdu language models. • Automatically generates time-aligned subtitles. • Subtitles can be previewed, edited, and exported.

	<ul style="list-style-type: none"> • Deliverables: <ul style="list-style-type: none"> • Urdu subtitle generation system.
Visual Enhancement	<ul style="list-style-type: none"> • Applies filters and enhancement techniques (brightness, contrast, saturation). • Improves visual clarity for low-light or low-quality videos. • AI-based enhancement for detecting and adjusting color tones. • Deliverables: <ul style="list-style-type: none"> • Enhanced video rendering module. • Side-by-side comparison of original vs. improved video.
Audio Cutting	<ul style="list-style-type: none"> • Detects and removes filler words like “um”, “uh”, “like”, etc. • Smoothes audio transitions to maintain natural flow. • Background noise reduction using audio filters. • Deliverables: <ul style="list-style-type: none"> • Cleaned-up audio timeline. • Final video with noise-free, fluent audio.
Thumbnail Generation	<ul style="list-style-type: none"> • Analyzes frames using AI to detect high-quality visuals. • Selects the best still image(s) for thumbnails. • Applies optional text overlays and branding. • Deliverables: <ul style="list-style-type: none"> • Auto-selected and generated thumbnails. • Option to download or customize thumbnails.

Video Summarization	<ul style="list-style-type: none"> • Uses keyframe extraction and NLP techniques to generate summaries. • Compresses long videos into short highlight reels. • Ideal for YouTubers and content creators to showcase main points. • Deliverables: <ul style="list-style-type: none"> • Short summary clips. • Comparison chart (full vs. summarized duration).
User Profile	<ul style="list-style-type: none"> • Allows users to store personal details, edit profile, and view editing history. • Includes video history, previous edits, and downloads. • Deliverables: <ul style="list-style-type: none"> • Profile dashboard with personal and video data. • Secure settings and preferences.
Admin Panel	<ul style="list-style-type: none"> • Admin login and dashboard to monitor user activities. • Can manage registered users, video logs, and content analytics. • Data visualization for platform usage. • Deliverables: <ul style="list-style-type: none"> • Admin dashboard UI. • User and video management tools.
Help and support	<ul style="list-style-type: none"> • Contains FAQ, documentation, and interactive chatbot assistant. • Guides users step-by-step in using editing features. • Includes bug-reporting and live chat option. • Deliverables: <ul style="list-style-type: none"> ◦ Integrated chatbot and help section. ◦ Support ticket system.

Respected Evaluator, if you recommend some improvement or suggest a new module please mention in this section.	
Evaluator's Name:	Suggestions

Supervisor Signature:

Signature FYP Committee Member