



COMSATS University Islamabad (CUI)

Project Proposal

for

EduExtract: AI-Powered YouTube Content to Knowledge Hub

Version 1.0

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Scope Document Revision History

| No. | Comment | Actions Taken |
|-----|--|--|
| 1 | Modules are not elaborated properly. | Revised and elaborated all modules with additional details, ensuring clarity in features, functionality, and implementation scope. Headings were added for each feature to improve readability and provide a structured explanation. |
| 2 | Marketplace to be developed and ensure ethical monetization standards. | Added a detailed plan for the Marketplace module, including a content verification system to ensure only original and ethical content is monetized. |

Project Category: (Select all the major domains of proposed project)

- | | | |
|---|--|---|
| <input type="checkbox"/> A -Desktop Application/Information System | <input checked="" type="checkbox"/> B -Web Application/Web Application based Information System | |
| <input checked="" type="checkbox"/> C -Problem Solving and Artificial Intelligence | <input type="checkbox"/> D -Simulation and Modeling | <input type="checkbox"/> E -Smartphone Application |
| <input type="checkbox"/> F -Smartphone Game | <input type="checkbox"/> G -Networks | <input type="checkbox"/> H -Image Processing |
| <input type="checkbox"/> Other (specify category) | | |

Abstract

In an era where digital content is expanding at an exponential rate, educators, students, and content creators face significant challenges in effectively utilizing this information for structured learning and resource development. Platforms like YouTube, blogs, and online articles provide a wealth of unstructured information, yet converting this data into coherent educational materials remains a complex task. This gap creates inefficiencies, particularly in educational settings where personalized learning materials such as quizzes, flashcards, and presentations are essential. **EduExtract** addresses this challenge by offering an AI-driven platform that transforms diverse digital resources—including YouTube videos, books, blogs, reports, and other text-rich media—into structured, interactive educational materials. Leveraging cutting-edge Generative AI models, the system extracts, summarizes, and adapts content into formats such as detailed blogs, quizzes, flashcards, and presentations. The platform empowers educators, students, corporate trainers, and content creators by automating resource generation, significantly reducing the time and effort needed to create high-quality educational content. By integrating multi-format input support and Generative AI capabilities, EduExtract simplifies the content creation process while ensuring accessibility and scalability. Whether it's for academic learning, corporate training, or personal growth, EduExtract provides a comprehensive and intuitive solution to bridge the gap between vast digital content and personalized, interactive learning resources.

1. Introduction

In today's digital landscape, video content is a dominant form of information sharing, with platforms like YouTube hosting an extensive library of educational resources. Despite the value of these resources, they are often underutilized in structured educational environments due to their lack of adaptability for different learning formats. Students, educators, and content creators frequently require information in a more accessible, concise, and interactive format, such as blogs, quizzes, or study guides. Converting video content into these formats manually is time-consuming and resource-intensive, posing a barrier for individuals and organizations looking to maximize the educational potential of online videos.

EduExtract aims to address this gap by offering an AI-powered solution that automates the extraction, summarization, and transformation of video content into a variety of educational resources. This project seeks to simplify content creation processes, enhance accessibility to educational material, and provide a versatile toolkit for users to convert video knowledge into interactive learning tools efficiently.

2. Problem Statement

While video content on platforms like YouTube holds immense educational potential, its current format limits accessibility and adaptability for different learning needs. Users face challenges in manually converting lengthy videos into written summaries, question-answer formats, and other educational resources. This time-intensive and labor-intensive process restricts the utility of video content for educators, students, and content creators who need information in more digestible, engaging, and structured forms. Consequently, the lack of efficient, automated tools to transform video content into usable educational formats poses a barrier to utilizing these resources effectively in learning environments.

3. Problem Solution/Objectives of the Proposed System

The proposed system, EduExtract, is an AI-powered content extraction and educational resource creation platform designed to convert YouTube video content into interactive learning materials. By providing tools to extract, process, and transform video transcripts, EduExtract enables users to create structured educational resources such as quizzes, summaries, and presentations. This system is built to serve a variety of users—educators, students, content creators, and corporate trainers—by simplifying the process of turning video content into adaptable formats that cater to different learning and teaching needs. With Generative AI capabilities, EduExtract automatically

analyzes video content to generate educational material that is both accessible and engaging. The platform aims to address the challenges of information overload, the lack of structured learning resources from videos, and the diverse learning styles of users, enhancing content accessibility and usability.

3.1 Objectives

BO-1: Enable users to input YouTube URLs of individual videos or playlists and seamlessly extract transcripts and key insights for educational use.

BO-2: Provide AI-powered tools for generating quizzes, summaries, and question-answer content directly from video data to create tailored study materials.

BO-3: Offer customizable options for educators, students, and content creators to modify extracted content, allowing it to be adapted for different audiences and purposes.

BO-4: Integrate Generative AI to enhance content creation by automatically generating interactive learning resources, such as flashcards and presentation slides, based on the extracted text.

BO-5: Equip users with a user-friendly dashboard to organize, edit, and save their extracted materials, making it easy to manage multiple projects and content types.

BO-6: Provide accessibility features to cater to diverse learning preferences, allowing content to be transformed into different formats for maximum engagement.

BO-7: Build a scalable platform that initially focuses on YouTube content but is adaptable to include other content sources and media types in the future.

4. Related System Analysis/Literature Review

Table 1 Related System Analysis with proposed project solution

| Application Name | Weakness | Proposed Project Solution |
|------------------|--|---|
| RightBlogger.com | Limited to blog generation only; lacks options for quizzes, flashcards, and other educational resources. | Offer multi-functional features such as quiz generation, flashcard creation, and presentation slides for diverse educational use cases. |
| Simplified.com | Lacks AI-driven question generation for quizzes; primarily focused on social | Implement AI-powered question generation tailored for educational content, providing |

| | | |
|------------------|--|---|
| | media and marketing content. | users with topic-focused quizzes. |
| QuillBot.com | Primarily focuses on paraphrasing and summarizing text; no comprehensive support for educational content creation. | Provide structured content extraction from videos with additional features like flashcards, quizzes, and blog generation. |
| InVideo.io | Focused on converting video content into visual social media posts; no AI-based educational content features. | Include AI-based text extraction and summarization to support educational resources beyond visual media. |
| Scribe.com | Only offers transcription and basic editing; no AI-powered content generation for educational purposes. | Add AI-driven summaries, quizzes, and interactive content generation for a more comprehensive learning experience. |
| VidSummarize.com | Limited to text summarization; lacks additional formats like Q&A, flashcards, or structured presentations. | Enable users to generate various formats (blogs, quizzes, flashcards) from video content to enhance study versatility. |
| Otter.ai | Primarily focused on transcription and basic summaries; lacks advanced educational content generation features. | Integrate AI-based summarization, question generation, and content formatting for educational and study purposes. |
| Synthesia.io | Specialized in video generation with AI avatars; lacks text-based educational content extraction and generation. | Focus on converting video content to educational text resources such as summaries, flashcards, and quizzes. |

5. Scope

The scope of **EduExtract** is to deliver a comprehensive, AI-powered platform that revolutionizes the way educational content is created and consumed. This system will enable users to extract and transform information from diverse digital sources, including video platforms like YouTube (both videos and playlists), and various text-based media such as books, blogs, research papers, reports, and websites. Leveraging cutting-edge NLP (Natural Language Processing) and OCR (Optical Character Recognition) technologies, the platform will efficiently process multimedia and text data.

EduExtract's core functionality includes the generation of multi-format educational materials, such as detailed summaries, quizzes, flashcards, presentations, and blog articles. These outputs aim to cater to various learning preferences and use cases, ranging from academic study aids to corporate training

resources. To enhance content quality and customization, the platform will integrate Generative AI models capable of producing personalized learning materials tailored to individual user needs.

EduExtract will be accessible across both web and mobile platforms, ensuring flexibility and convenience for users in different environments. It will also support user-specific settings, allowing educators, students, and content creators to define their preferences, such as topic depth, tone, and format. The system is designed to be highly scalable, enabling seamless integration of additional features and support for new content sources as user needs evolve. Furthermore, EduExtract will provide collaborative tools, enabling users to share and co-develop content within teams or communities.

The platform's innovative approach to automating educational resource creation addresses current challenges of content overload, time constraints, and personalization in learning. By offering intuitive, AI-driven solutions, EduExtract aims to transform traditional methods of content curation into a streamlined, efficient, and interactive process, empowering users across educational, professional, and personal learning contexts.

6. Vision Statement

For students, educators, content creators, and corporate trainers **who** struggle to efficiently transform diverse digital resources like videos, books, blogs, and reports into structured educational materials. **The** EduExtract Platform **is** an AI-driven, multi-modal content extraction and resource generation application **that** automates the creation of quizzes, summaries, presentations, and flashcards, simplifying content curation and enhancing learning experiences. **Unlike** traditional manual methods or single-purpose tools that are time-consuming and limited to specific content types, **our product** leverages advanced AI and machine learning to provide a versatile, user-friendly, and scalable platform, offering personalized, interactive, and multi-format educational resources efficiently.

7. Modules

The EduExtract platform is divided into essential modules to ensure streamlined content extraction, customization, and interactive resource creation. These modules are designed to enhance usability, flexibility, and support various content transformation needs.

7.1 SmartSign-In Portal

FE-1: Seamless Sign-Up Using Email or Social Accounts: Users can easily create accounts using their email address or popular social platforms like Google and Facebook, reducing the hassle of manual registration.

FE-2: Secure Login/Logout Features with Two-Factor Authentication: A robust authentication mechanism ensures account security by requiring users to verify their identity with a second step, safeguarding their data.

FE-3: Password Recovery and Account Restoration: In case users forget their passwords or

lose access, a guided recovery process helps restore accounts without compromising security.

FE-4: User Profile Management with Configurable Account Settings: Users have full control over their profiles, enabling them to update personal details, preferences, and settings anytime for a customized experience.

7.2 Personalized Learning Profile Setup

FE-1: AI-Driven Preferences: Users can personalize their learning experience by specifying preferences such as quiz type, summary length, and flashcard format, tailoring the platform to their needs.

FE-2: Content Tone Customization: Allows users to select a tone—such as casual or academic—for generated summaries, ensuring that the content aligns with their learning style.

FE-3: Flexible Settings: Users can modify their preferences at any time, enabling adaptability as their learning objectives evolve.

7.3 Video Alchemy Hub (Content Extraction)

FE-1: AI-Assisted Video and Playlist URL Input: Users can simply input a video or playlist URL, and the platform will extract and process the content automatically, saving time and effort.

FE-2: High-Accuracy Transcription and Text Extraction: Advanced AI models ensure precise transcription, capturing every spoken detail in the video, regardless of length or complexity.

FE-3: Dynamic Summarization Options: Users can select the desired summary length and focus points, allowing for a more tailored and specific content output.

FE-4: Topic Extraction and Segmentation: Automatically identifies key topics and organizes them into meaningful sections for easier understanding and review.

7.4 ResourceForge (Generative AI Resource Creation)

FE-1: AI-Quiz Master: Generate quizzes with various formats, such as multiple-choice, true/false, or short-answer, directly from video content, enhancing interactivity.

FE-2: Flashcard Generator: Create topic-based flashcards from extracted content, enabling users to focus on key concepts and revise effectively.

FE-3: BlogSynthesizer: Transform video content into well-structured blog posts with options to customize tone, length, and style to match user requirements.

FE-4: SlideCraft: Generate professional presentation slides with visuals and key points, eliminating the need for manual slide creation.

7.5 KnowledgeVault (Content Library and Management)

FE-1: Centralized Library for Generated Resources: A single repository for storing and managing all generated resources, providing users with easy access to their content.

FE-2: Advanced Tagging and Search Features: Tagging and search functionalities make finding and organizing resources effortless, even for large libraries.

FE-3: Multiple Version Saving: Users can save different versions of the same resource, allowing them to compare, refine, or revisit earlier iterations as needed.

7.6 Smart Mentor Module

FE-1: AI-Generated Chatbot for Processed Content: The platform generates an AI chatbot capable of discussing the processed video or playlist content, making learning interactive and engaging.

FE-2: Interactive Q&A on Content: Users can ask topic-specific questions, and the chatbot provides accurate and contextually relevant answers based on extracted content.

FE-3: Supplementary Answers with External Resources: When additional context is required, the chatbot supplements its responses with information from trusted external resources.

7.7 Export & Share Hub

FE-1: Multi-Format Export: Users can download their generated resources in various formats, such as PDF, DOCX, or PPT, ensuring compatibility with different platforms and purposes.

FE-2: Direct Sharing: Easily share resources via email, social media, or collaborative platforms like Google Drive, enhancing collaboration and accessibility.

FE-3: Public Sharing Option: Users can choose to make specific resources publicly available, fostering a collaborative and open learning community.

7.8 IntelliSuggest (Generative AI Recommendations)

FE-1: Intelligent Content Suggestions: Based on user activity and preferences, the platform provides recommendations for related videos, topics, or supplementary reading material.

FE-2: Interactive Feedback Loop: Users receive tailored recommendations for future content creation based on previously generated materials and engagement levels.

FE-3: Content Expansion Options: Suggests additional details or topics to enhance the depth and quality of generated resources, encouraging comprehensive learning.

7.9 Feedback & Evolution Suite

FE-1: User Feedback System: Integrated tools collect user feedback to evaluate the quality and relevance of AI-generated content, ensuring continuous improvement.

FE-2: Adaptive AI Updates: The AI adapts to user feedback, enhancing the accuracy, personalization, and quality of future content generation.

FE-3: Insights & Analytics: Provides users with detailed analytics on content engagement, effectiveness, and user interactions to inform decisions and customizations.

7.10 Control Center (Admin Module)

FE-1: AI Monitoring Dashboard: Admins can monitor AI performance, track platform usage, and oversee user activities through an intuitive dashboard.

FE-2: User & Content Management Tools: Manage user accounts, review flagged content, and ensure compliance with resource guidelines to maintain platform integrity.

FE-3: Generative AI Moderation: Automated moderation tools detect and address inappropriate or irrelevant content in user-generated resources, ensuring ethical use.

7.11 CollaborateHub (User Collaboration Module)

FE-1: Shared Learning Spaces: Users can create virtual collaborative spaces where multiple participants can work together on educational materials such as quizzes, flashcards, and summaries. These spaces encourage teamwork among peers, students, or colleagues while maintaining centralized control of resources.

FE-2: Change Request Approval System: Collaborators can propose changes to shared resources. These changes are sent as requests to the resource owner, who can review and approve or reject them. Approved changes are then reflected in the shared resource, ensuring that the content remains controlled and consistent.

FE-3: Permission Control: Allows the resource owner to assign roles such as view-only, suggest changes, or full control, ensuring that collaboration is secure and that contributors have appropriate levels of access. This system ensures a balance between collaboration and content integrity.

7.12 Content Marketplace (Premium Module for Resource Monetization)

FE-1: Creator Monetization: Verified users who produce original, high-quality educational content can list their resources, such as summaries, quizzes, or study guides, for sale or subscription. A robust verification process ensures that all listed content is ethical, original, and complies with platform standards.

FE-2: Content Discovery & Rating: Advanced search and rating features help users discover relevant and top-rated content. The rating system promotes transparency and helps creators gain visibility based on the quality of their contributions.

FE-3: Subscription Plans: Offers users access to a premium library of educational resources through subscription models. This curated library includes content from verified contributors, catering to diverse learning needs while maintaining ethical standards.

7.13 Cross-Platform Extension

FE-1: Multi-Platform Compatibility: The extension will provide support for extracting and processing content from video platforms beyond YouTube, such as Vimeo, Dailymotion, and other sites. Users will be able to utilize the app's features across a diverse range of sites, expanding its usability.

FE-2: Local Video Support: Users will have the ability to upload and process locally stored videos directly through the extension. This feature ensures offline accessibility and caters to content that may not be hosted on online platforms, providing flexibility for educators and students.

FE-3: Browser Integration: The extension will seamlessly integrate with popular browsers, such as Chrome and Firefox, allowing users to access its basic features directly while browsing. This will include quick access to content summarization, quiz generation, and flashcard creation without needing to switch to the main app, enhancing productivity.

8. System Limitations/Constraints

LI-1: The system may face processing delays with very long YouTube videos or playlists with numerous videos, affecting response time for generating comprehensive resources.

LI-2: Generative AI resource creation depends on internet access and cannot function offline. Offline mode is limited to viewing and editing previously downloaded resources only.

LI-3: Content extraction quality may vary depending on the video's audio quality, language, or the presence of complex terminologies that might affect accurate transcription.

LI-4: The system may not process videos in languages unsupported by the platform's language model, limiting accessibility for non-English content creators.

9. Data Gathering Approach

The project will gather data through interviews with target users (students, educators, corporate trainers), questionnaires for broader quantitative insights, and a literature review on existing tools and advancements in AI-driven content generation. This mixed-method approach ensures a comprehensive understanding of user needs and technical feasibility.

10. Tools and Technologies

| Tools And | Tools | Version | Rationale |
|------------------|-----------------------|---------|--|
| | MS Visual Studio Code | Latest | IDE for writing and debugging front-end and back-end code |
| | MongoDB Atlas | 5.x | Cloud-based NoSQL database for storing extracted content and user data |

| | | | |
|---------------------|--------------------|----------------|---|
| Technologies | Firebase | Latest | Authentication and real-time database for user management and activity tracking |
| | Figma | Latest | For designing mockups and prototyping the user interface |
| | Technology | Version | Rationale |
| | React.js | 17 | Framework for building the web app's front-end |
| | React Native | 0.63+ | Framework for cross-platform mobile development |
| | Node.js | 14.x+ | Server-side development and API handling |
| | Python | 3.9+ | For AI and machine learning modules |
| | TensorFlow/PyTorch | Latest | For training and deploying machine learning models |
| | OpenAI API (GPT-4) | GPT-4 | Generative AI for summarization, question generation, and other NLP tasks |
| | FastAPI | Latest | Lightweight backend for managing ML model integration |

11. Project Stakeholders and Roles

| | |
|------------------------|---|
| Project Sponsor | COMSATS University Islamabad, Islamabad Campus |
| Stakeholder | <ul style="list-style-type: none"> • Group Leader: Syed Muhammad Hamza • Responsibility: Developer • Group Member: Saad Ameer • Responsibility: Developer • Group Member: Rana Sarosh • Responsibility: Developer • Project Supervisor Name: Dr.Muhammad Imran • Responsibility: Project Supervisor |

12. Module based Work Division

| Student Name | Student Number | Registration | Responsibility/Module/Feature |
|---------------------|----------------|--------------|---|
| Syed Muhammad Hamza | SP22-BCS-099 | | <ul style="list-style-type: none">• YouTube Video/Playlist Text Extraction• Content Summarization and Key Points Extraction• Quiz Generation Module |
| Saad Ameer | SP22-BCS-085 | | <ul style="list-style-type: none">• Blog and Article Generation• Presentation Creation Module• Language Processing and Translation |
| Rana Sarosh Ali | SP22-BCS-117 | | <ul style="list-style-type: none">• Generative AI Model Integration• User Interface Design• System Testing and Optimization• User Feedback and Iteration |

13. References

Books

- D. Jurafsky and J. H. Martin. *Speech and Language Processing: An Introduction to Natural Language Processing, Computational Linguistics, and Speech Recognition*. Upper Saddle River, NJ: Pearson Prentice Hall, 2009, pp. 427-450.

Articles in Journals

- J. Nalmpantis and A. Vrakas, "Machine learning approaches for urban mobility data analytics: A survey." *Sustainable Cities and Society*, vol. 60, pp. 102-123, Jan. 2020.

Articles from Conference Proceedings

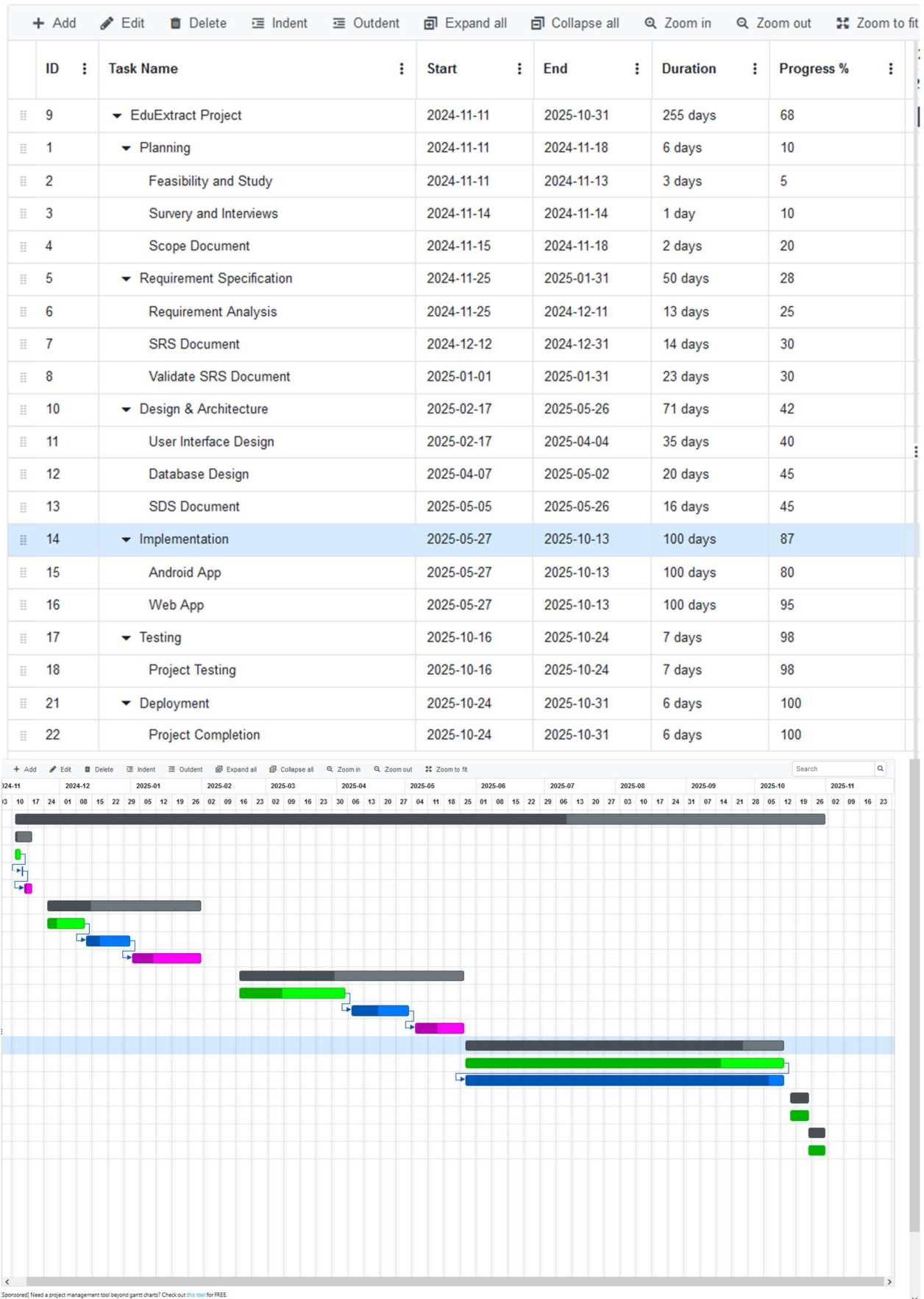
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- H. Jo and M. Choi, “Learning to Summarize YouTube Videos with Transformers: A Multi-Task Approach,” in *IEEE Xplore Conf. Proc.*, 2023, pp. 512-520 [75].
- T. Kumar et al., “YouTube Transcript Summarizer,” in *IJSR Proceedings*, 2023, pp. 1-8 [74].

Web Resources

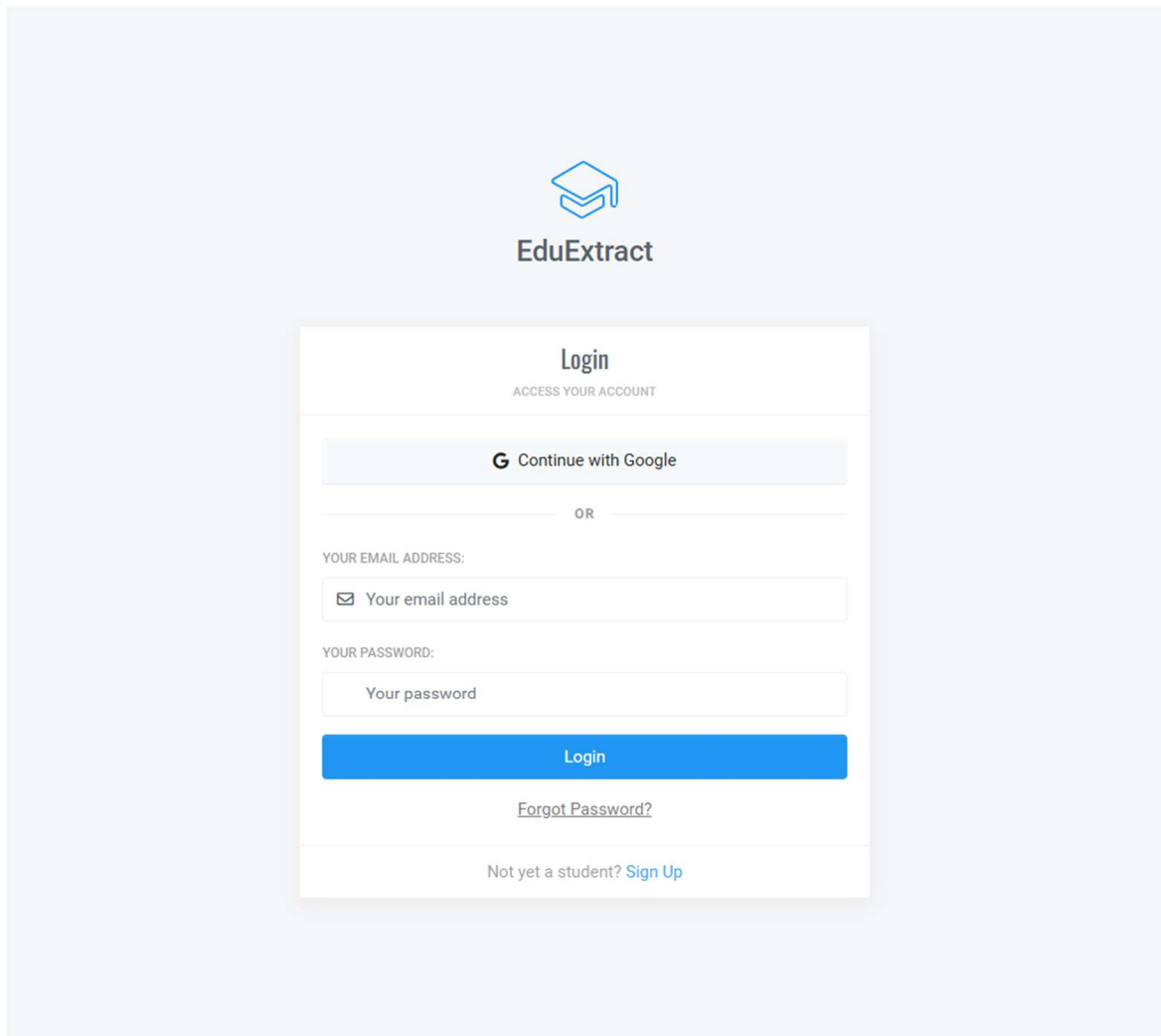
- Video Transcript Summarizer. *IEEE Xplore*, Internet: <https://ieeexplore.ieee.org/document/9751991>, [Accessed Nov. 18, 2024] [72].
- “Learning to Summarize YouTube Videos.” *IEEE Xplore*, Internet: <https://ieeexplore.ieee.org/document/10201219>, [Accessed Nov. 18, 2024] [75].

14. Gantt Chart



15. Mockups


15.1 Login:



The mockup shows a login interface for 'EduExtract'. At the top, there is a blue icon of a graduation cap above the text 'EduExtract'. Below this is a white login card with a blue shadow. The card has a title 'Login' and a subtitle 'ACCESS YOUR ACCOUNT'. It features a 'Continue with Google' button with the Google 'G' logo. Below this is a horizontal line with the word 'OR' in the center. There are two input fields: 'YOUR EMAIL ADDRESS:' with a placeholder 'Your email address' and an envelope icon, and 'YOUR PASSWORD:' with a placeholder 'Your password'. A blue 'Login' button is positioned below the password field. At the bottom of the card, there is a link 'Forgot Password?' and a footer line that says 'Not yet a student? Sign Up'.


EduExtract

Login
ACCESS YOUR ACCOUNT

 Continue with Google

OR

YOUR EMAIL ADDRESS:

 Your email address

YOUR PASSWORD:

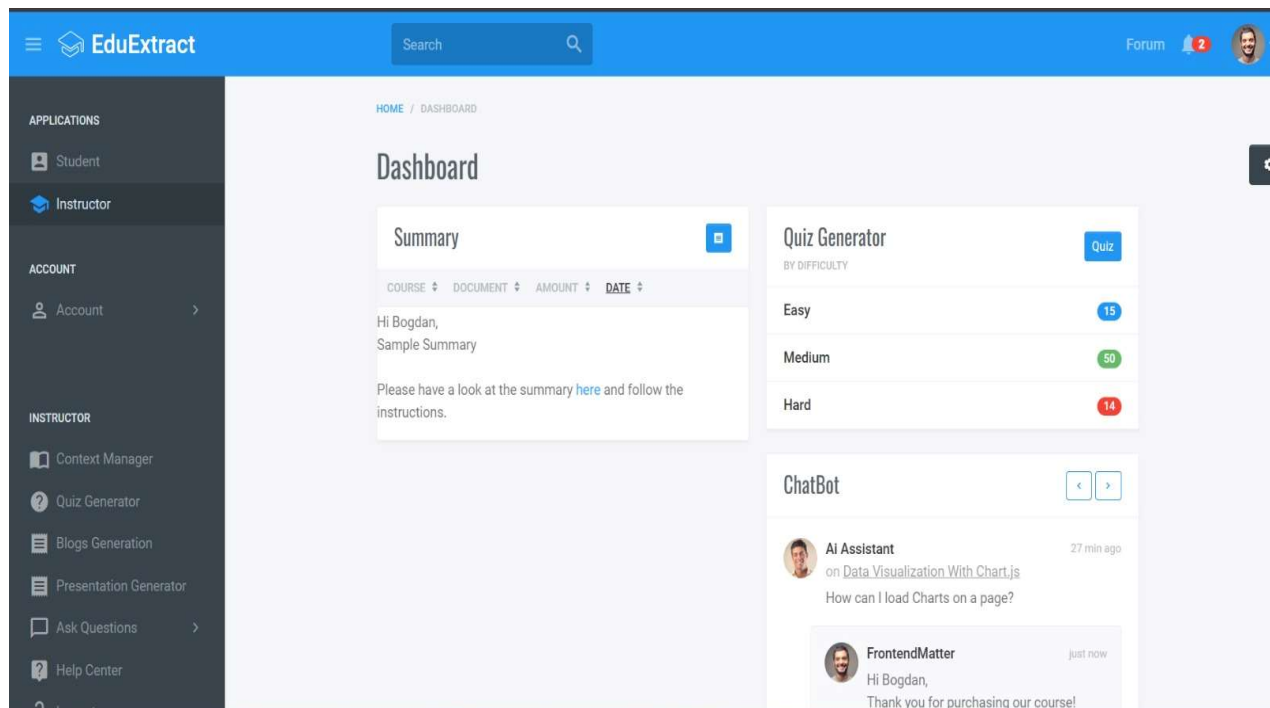
Your password

Login

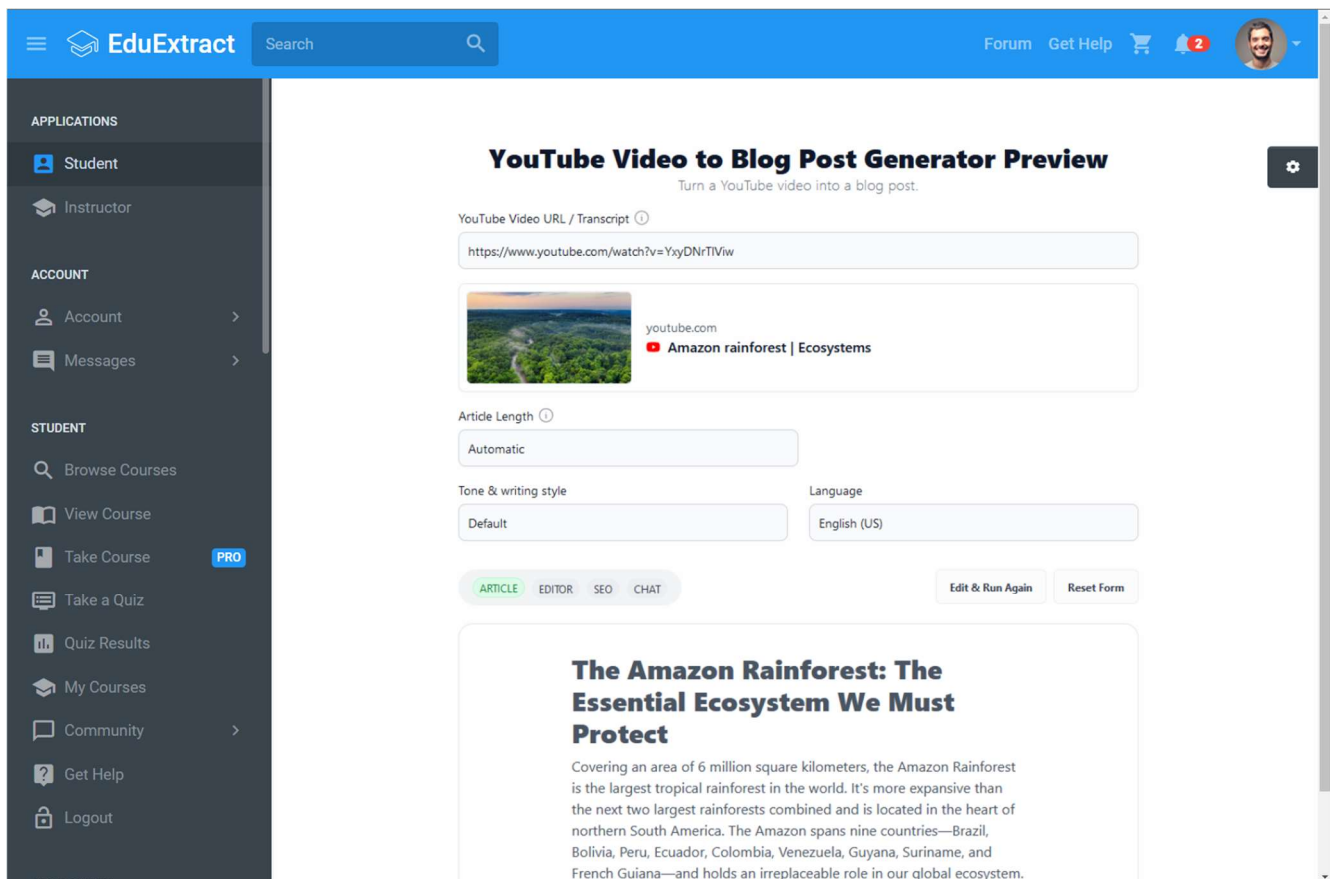
[Forgot Password?](#)

Not yet a student? [Sign Up](#)

15.2 Dashboard:



15.3 YouTube Videos to Blogs:



15.4 YouTube Videos to Presentation Slides:

The screenshot displays the EduExtract website interface. The top navigation bar is blue with the EduExtract logo, a search bar, and links for Forum, Get Help, and a user profile. A dark sidebar on the left contains navigation options under 'APPLICATIONS' (Student, Instructor), 'ACCOUNT' (Account, Messages), and 'STUDENT' (Youtube to PPT, View Course, Take Course, Take a Quiz, Quiz Results, My Courses, Community, Get Help, Logout). The 'Take Course' option is highlighted with a 'PRO' badge. The main content area features a presentation slide with a black background and green text: 'Lorem ipsum dolor sit amet, consectetur adipiscing elit' and 'hamza syed hamzasyed2985@gmail.com'. On the right, a 'Pick a theme' panel offers various color schemes like Forrest Green, Fancy Gradient, Lavender Purple, Carrot Orange, Cream White, Beach Blue, Red Wing, Spectral Blaze, Building Blocks, and Purple Rope. A 'Continue' button is visible at the top of this panel.

EduExtract

Search

ForumGet Help

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6. Tree Coverage and Can...

7. Environmental Role

8. Medicinal Resources

9. Threats to the Amazon

10. Conclusion

Amazon Rainforest - Ecosystems

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APPLICATIONS

Student

Instructor

ACCOUNT

Account

Messages

STUDENT

Youtube to PPT

View Course

Take Course

Take a Quiz

Quiz Results

My Courses

Community

Get Help

Logout

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Amazon Rainforest - Ecosystems

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