Project Plan Presentation
Enhanced Video Assistant

The Capstone Experience

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Project Sponsor Overview

- Software company based in East Lansing
- Specializes in video-editing and capturing
- Popular products: Camtasia, Snagit, Audiate
Project Functional Specifications

• Simplifies video editing
• Video Streamliner: Condense videos to key moments
• Narration Improver: Enhances audio quality
• AI Focus Group: Provide real-time feedback for improvement
Project Design Specifications

- User-centric design
- Integration of AI features
- Responsive and accessible design
- Flexibility in customization and editing
Screen Mockup: Home Page

Recent Projects

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87:56
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New Project
Screen Mockup: Video Streamliner
Screen Mockup: AI Focus group
Screen Mockup: Narration Improver
Project Technical Specifications

• Front-end:
  ▪ React + JS
  ▪ Nginx

• Backend
  ▪ FastAPI python framework
  ▪ Gunicorn

• Azure web services
• SQL database
• FFMPEG
Project System Architecture
Project System Components

• Hardware Platforms
  ▪ Azure cloud services
  ▪ Local machines

• Software Platforms / Technologies
  ▪ React with JavaScript
  ▪ FastAPI python framework
  ▪ Azure web services
  ▪ Nginx, Gunicorn web servers
  ▪ SQL database
Project Risks

• Risk 1
  ▪ Cost of Azure services like AI Indexer
  ▪ Exploring alternate options through open-source models; pre-processing on video

• Risk 2
  ▪ Discerning important parts of video
  ▪ Azure AI Video Indexer + OpenAI

• Risk 3
  ▪ Process videos without audio
  ▪ Azure AI Vision studio and indexer

• Risk 4
  ▪ Processing time too long
  ▪ User pre-defined expectations; compressing/sped-up videos
Questions?