BYTE-ME

TRANSCEND CONVERGE ITERATE

MEET THE TEAM

FROM
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PROBLEM STATEMENT :

- In academic and professional settings, proper document formatting is crucial for readability and adherence to standards. However, users often waste significant time manually adjusting styles, positioning elements, and ensuring consistency—leading to inefficiency and increased chances of errors, especially for those less familiar with formatting tools.

SOLUTION : DocuMorph AI

- An AI-powered tool that automatically formats documents to match institutional or organizational standards, saving time and eliminating human error

WHAT :

Our solution automates document formatting by using smart templates and AI-powered tools to ensure consistency, save time, and eliminate human errors. It simplifies the creation of professional, well-formatted documents aligned with institutional or organizational standards.

HOW :

Template Selection.
Content Upload or Input.
AI Formatting Engine
Real-Time Preview & Edits
Download & Export:

KEY FEATURE'S :

- Automated Formatting
- Logo & Element Positioning
- Smart Numbering
- Template Integration
- Error Reduction
- Time-Saving
- User-Friendly Interface

DESIGN & EXPERIENCE

PLATFORM

VS Code

NAVIGATION FLOW

Uploading the document, generating required document

DESIGN TOOLS

CSS

Innovation & Uniqueness :

Title: What Makes Us Different?

- Unique Features:
  - Universal input support
  - AI-powered intelligent formatting engine
  - Live preview before generation

- Competitive Advantage:
  - Unlike Grammarly/Google Docs, we focus on document structure
  - Automated generation reduces 80% manual formatting effort

UI/UX Screens :

Title: Platform Experience

- Mockup Screens:
  Homepage with Upload Feature
  File Extraction Display
  Format & Download Options
- Tools Used: Figma, Canva
- User Journey:
  Upload any document
  Preview extracted text
  Generate & download formatted DOCX

Technical Architecture

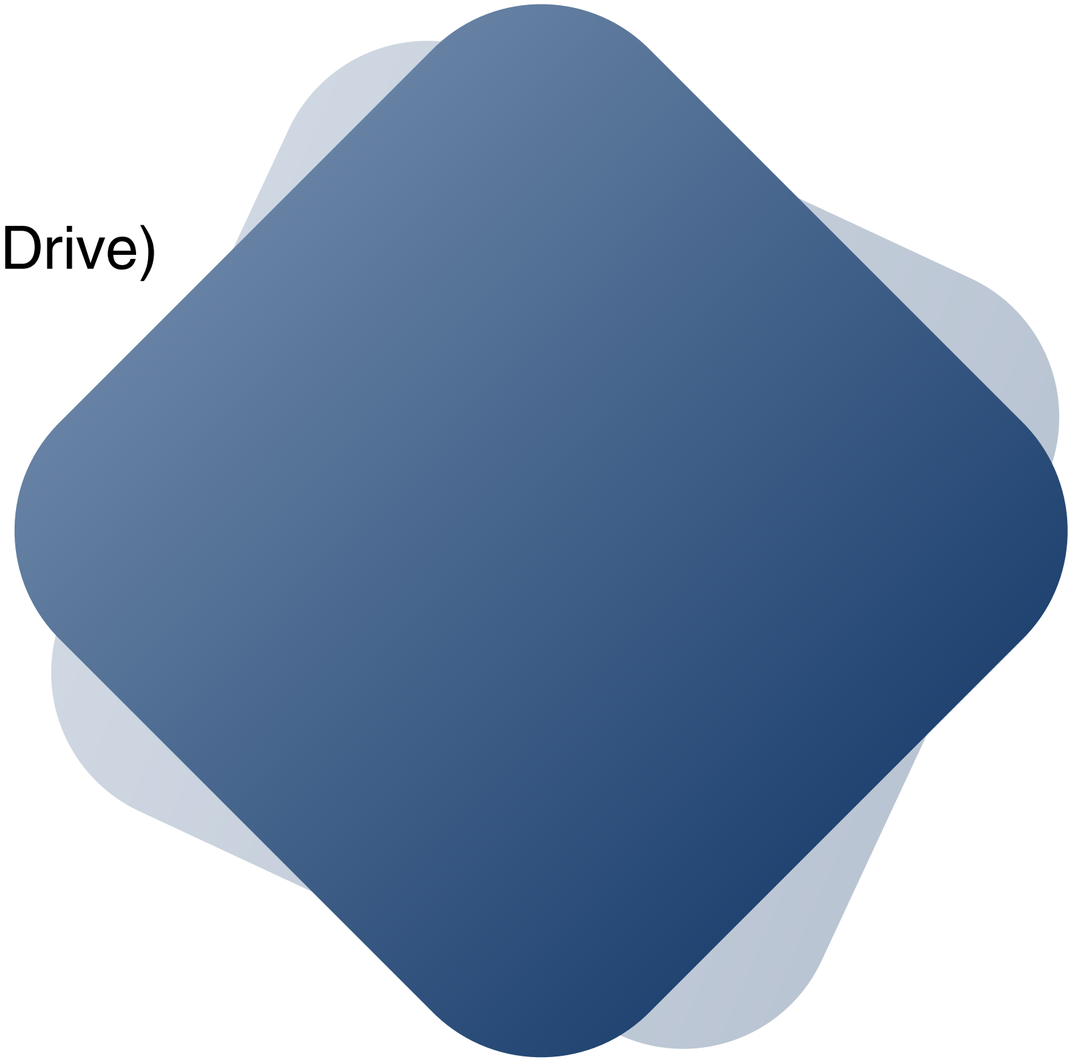
Title: System Design Overview

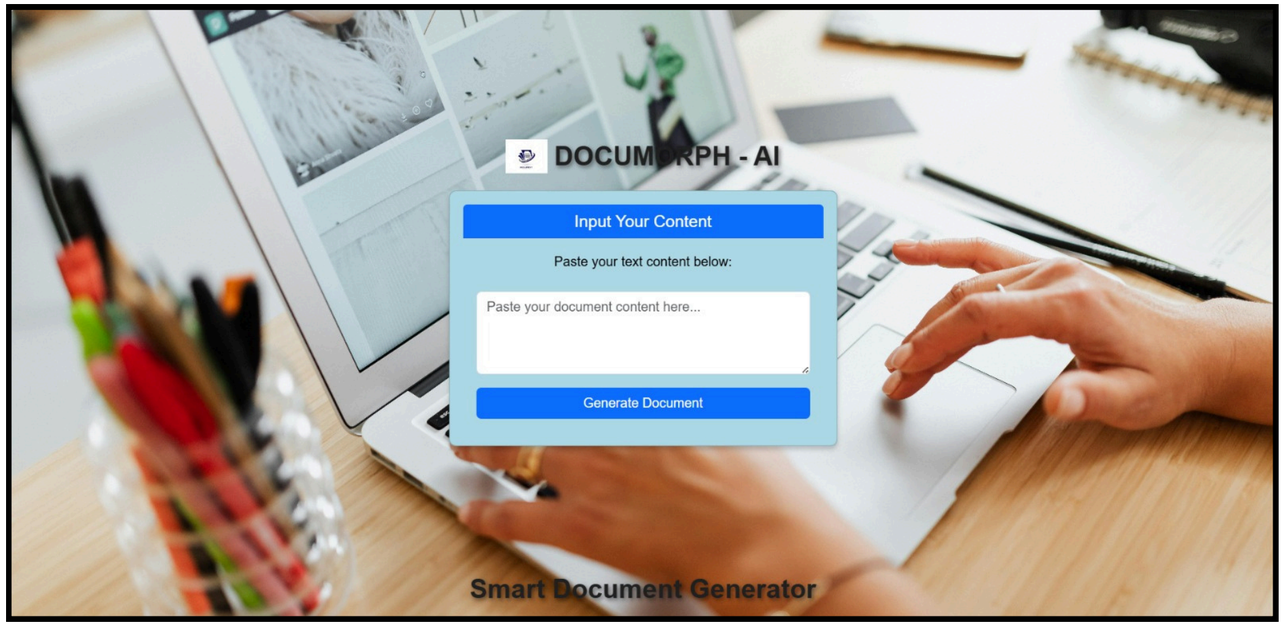
- Backend:
  - Flask
  - Python-docx, textract, PyPDF2
- Frontend:
  - HTML, CSS, JavaScript
- AI:
  - Google Gemini API
- File Handling:
  - PDF → PyPDF2
  - DOCX/DOC → python-docx / textract
  - Text Parsing → Custom parser

Prototype Demo :

Title: Live Demonstration

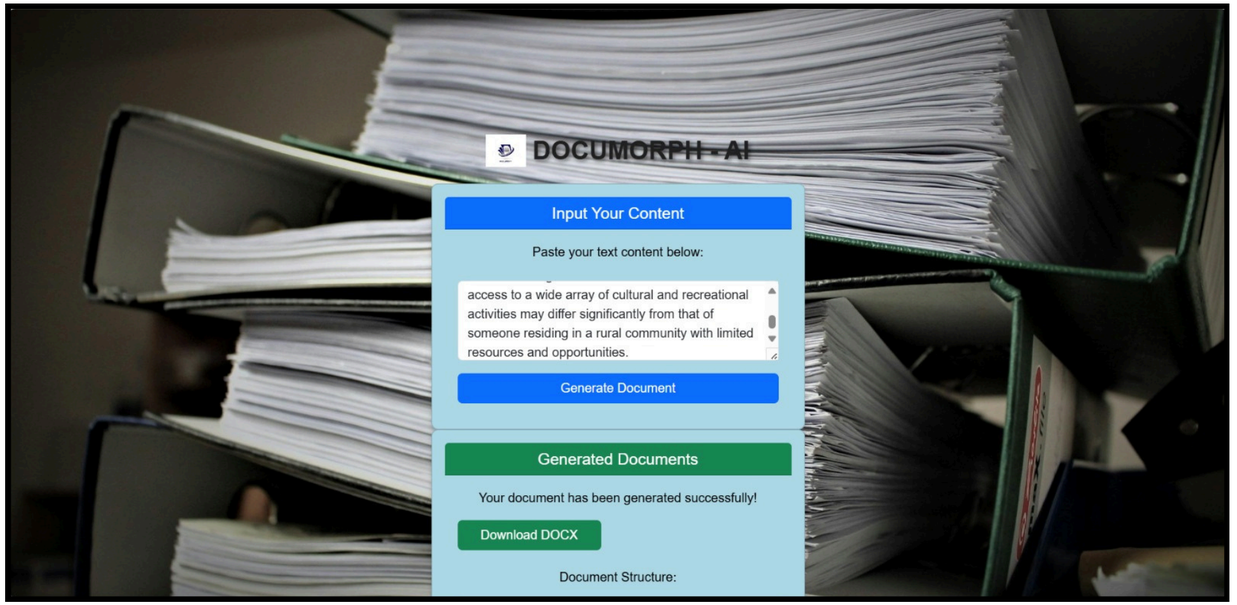
- Screenshots of working prototype
- Live demo video link (YouTube or Google Drive)
- Key features:
  - Upload
  - AI analysis
  - Formatted output

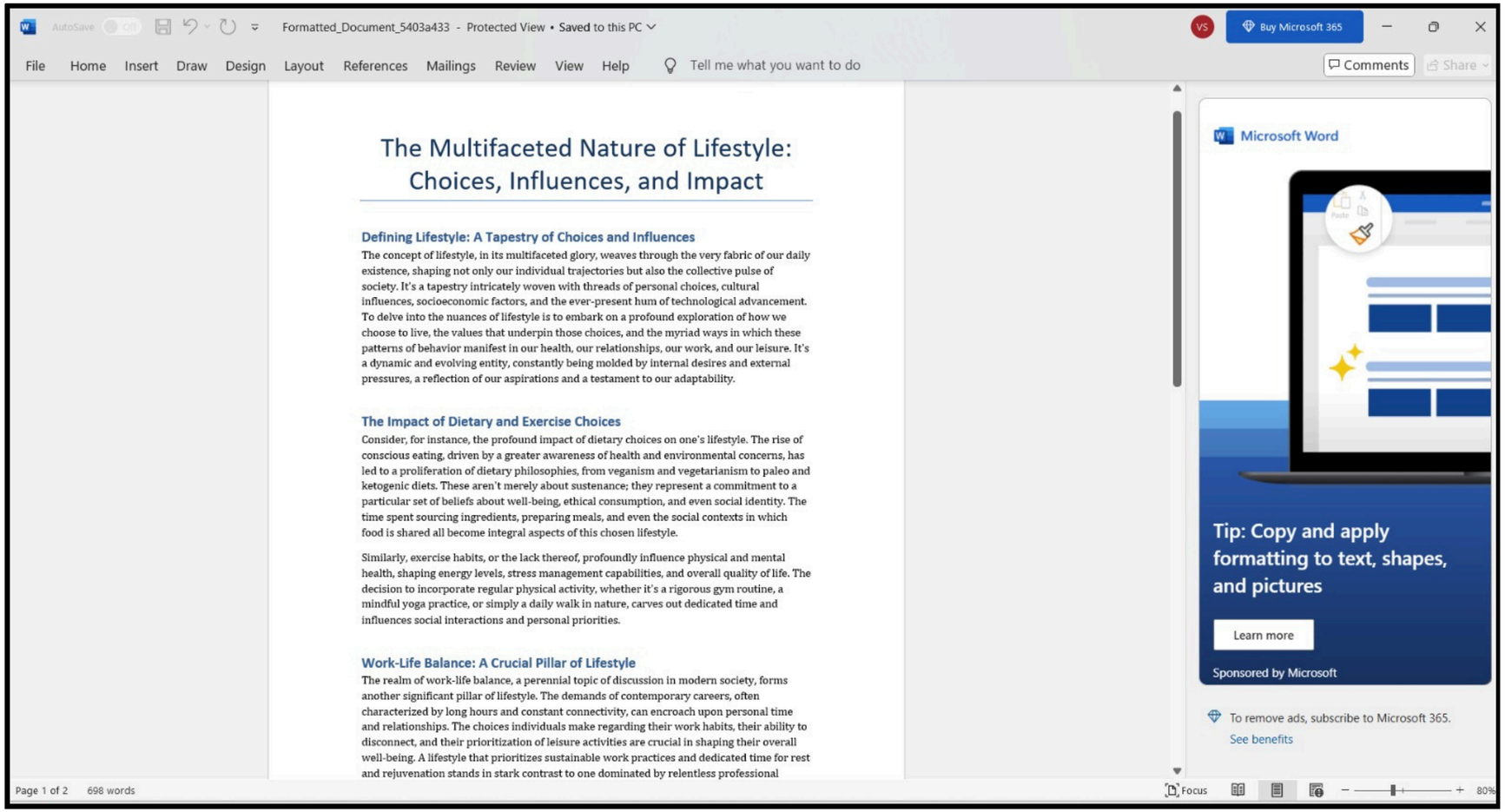




USER INTERFACE

USER INPUT





FINAL RESULT

GitHub Repository :

Title: Project Repository

- GitHub: github.com/Hackvyuha_ByteMe
- Access: Private (shared with jury)

Contribution Map:

- Vaishnavi : Frontend, Web design
- Rohit : Flask backend, routes
- Vivek: Gemini AI integration
- Pallavi \ Bhagya: Research + documentation

Feasibility & Scalability :

Title: Build and Beyond

Project is already functional
Deployment Plan:

- Hosting on Render or Railway
- Scalable with cloud storage (AWS/GCP)

Next Steps:

- User accounts
- File history, PDF export

Impact & Value Proposition :

Title: Making a Difference

Who Benefits:

- Students
- Researchers
- Corporate employees

Value:

- Saves 5–10 hours per document
- Works with existing tools

Use Cases:

- Final reports
- Research submissions
- Resumes and SOPs

Challenges Faced :

Title: What We Overcame

- PDF formatting inconsistencies
- textract compatibility (on Windows)
- Google Generative AI quota limits
- Git merge conflicts during teamwork

Future Scope :

Title: What’s Next?

Features:

- PDF output
- Smart headings + TOC
- Voice note to text + format
- Commercialization:
- SaaS model
- Student edition
- Open-source plugins

Learnings & Experience :

Title: What We Gained

Learned:

- Python-docx, Flask Blueprints, Google Gemini Textract & cross-platform handling

Teamwork:

- GitHub collaboration
- Real-time feedback

Thank You + Q&A

Thank you message to jury & organizers

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- LinkedIn: linkedin.com/in/byteme
- Q&A: “We’re open to any questions you may have.”