SOMA APP

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Team Members

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Introduction



Welcome to Soma, an innovative application designed to help students, researchers, and learners navigate complex texts with ease by simplifying lengthy and complex content into concise and understandable summaries, Soma ensures that you save time while gaining clarity.



Roles and Responsibilities

Christopher

- Backend development with Python and Flask
- LLM model development using OpenAI and langchain

Julliet

- Frontend development with React and Firebase
- Styling using Tailwind CSS



Project Time Goals

Completed within the time frame.

- Planning and Research Phase
- Design Phase
- Development Phase

Not Completed within the time frame

- Testing and Feedback Phase
- Deployment Phase



Key Improvements Since the

Midterm

- Backend Implementation: Developed a robust backend using Python to ensure reliable performance and efficient data processing.
- Frontend Development: Built a dynamic and user-friendly interface using React.
- Fully Functional Application: Achieved a complete integration of the backend and frontend, resulting in a fully operational application ready for use.



Installation and deployment

- Clone the application from github
- Ensure that Node and Python are installed on your computer.
- Go to the backend folder open the .env file and add your openai API key.
- Run python app.py
- In another terminal, go to the frontend folder and run npm install to install the required libraries.
- Go to the firebase.js file that is in the path src folder and add your firebase API keys.
- Run npm start



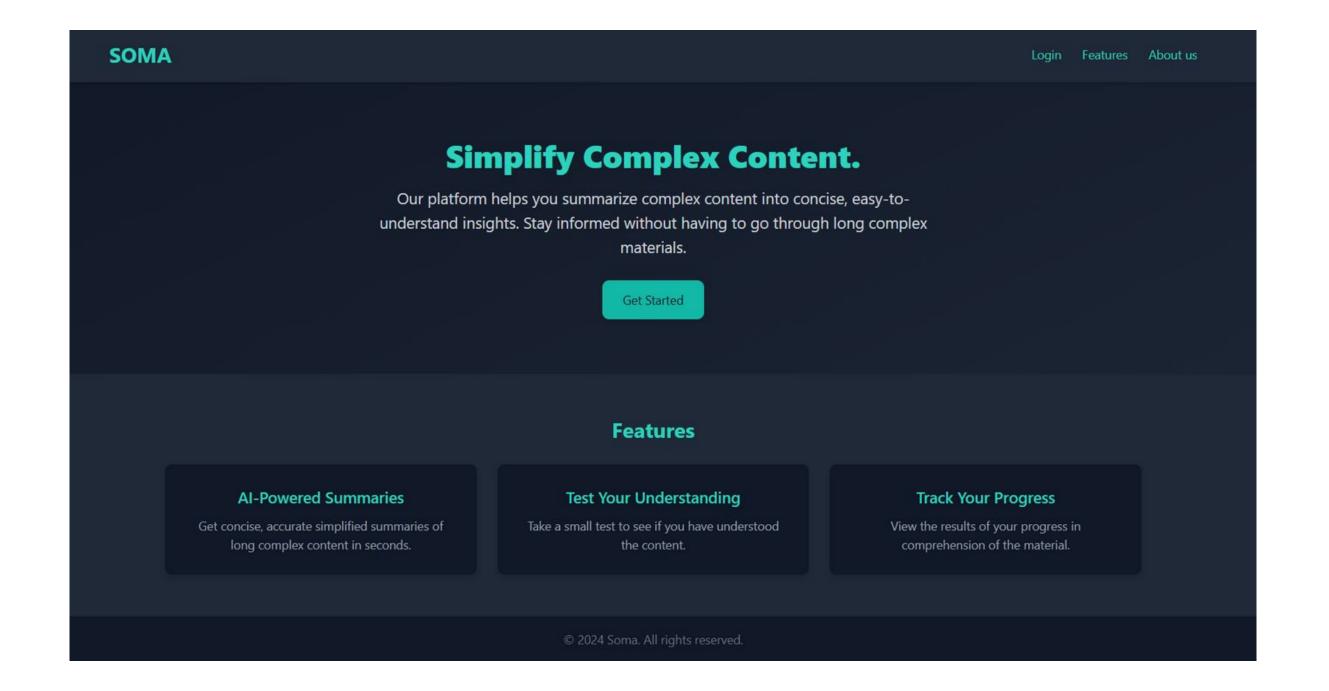
Application Walkthrough

- Sign-Up and Login Page: Allows users to create an account and securely log in.
- Homepage: Acts as a central hub for navigation to other sections of the application.
- Prompt Page: Enables users to input complex text for simplification.
- Quiz Page: Generates quizzes based on the summary to test the user's understanding.
- Progress Page: Displays a history of quiz results, helping users track their progress over time.



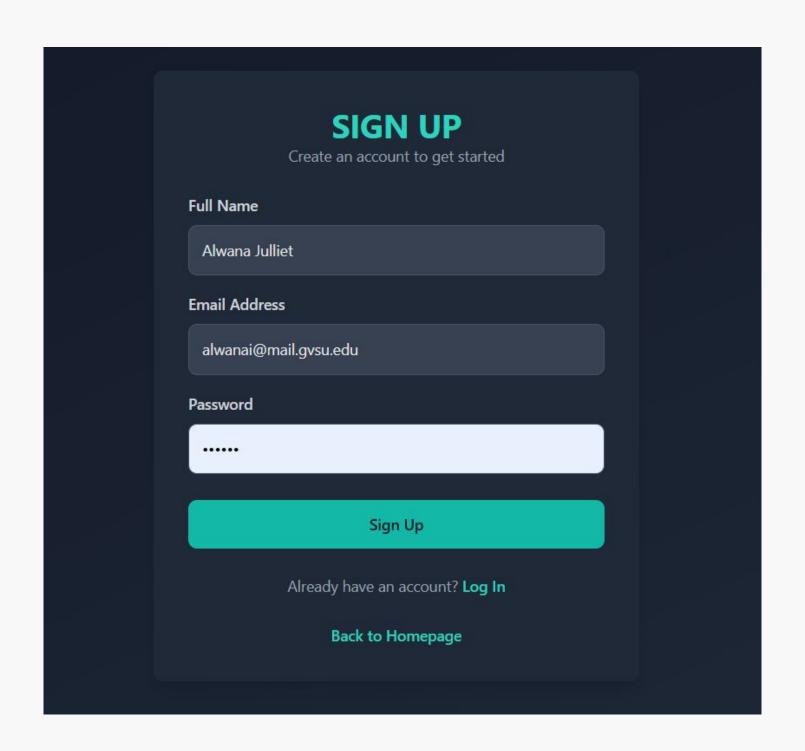


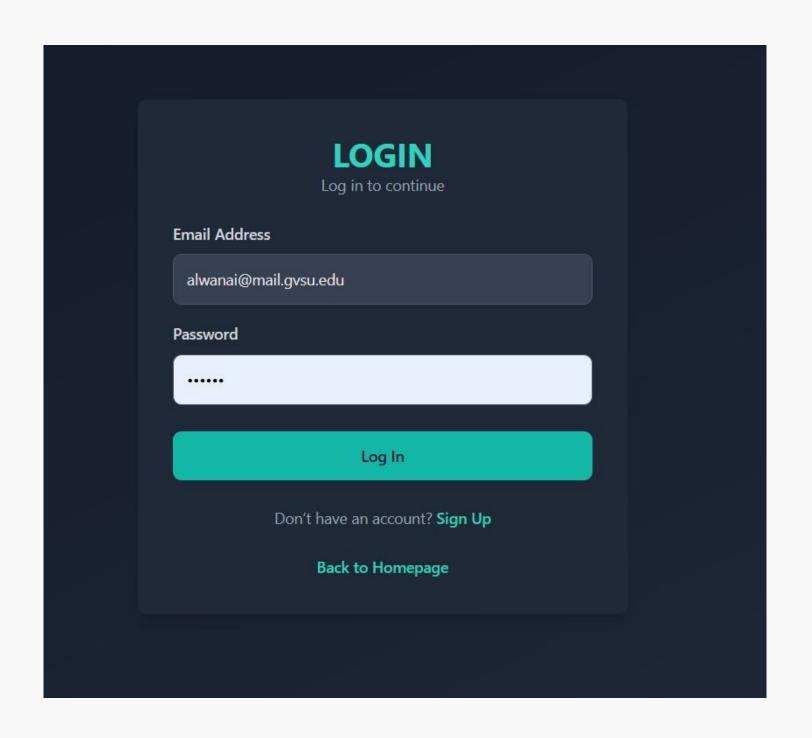




Sign Up and Login









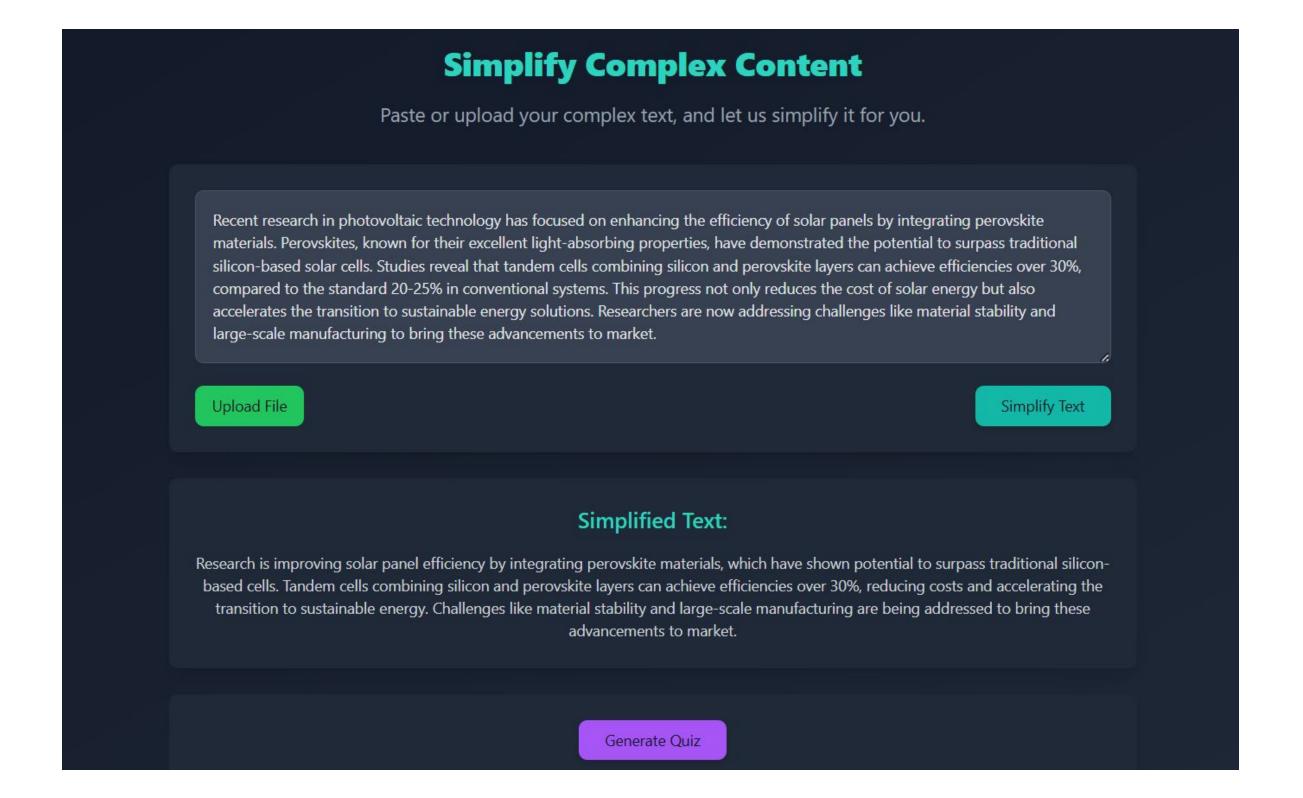




SOMA		Back to Home
	Simplify Complex Content Paste or upload your complex text, and let us simplify it for you.	
	Paste your complex text here	
	Upload File Simplify Text	
	Simplified Text: Your simplified text will appear here	
	Generate Quiz	







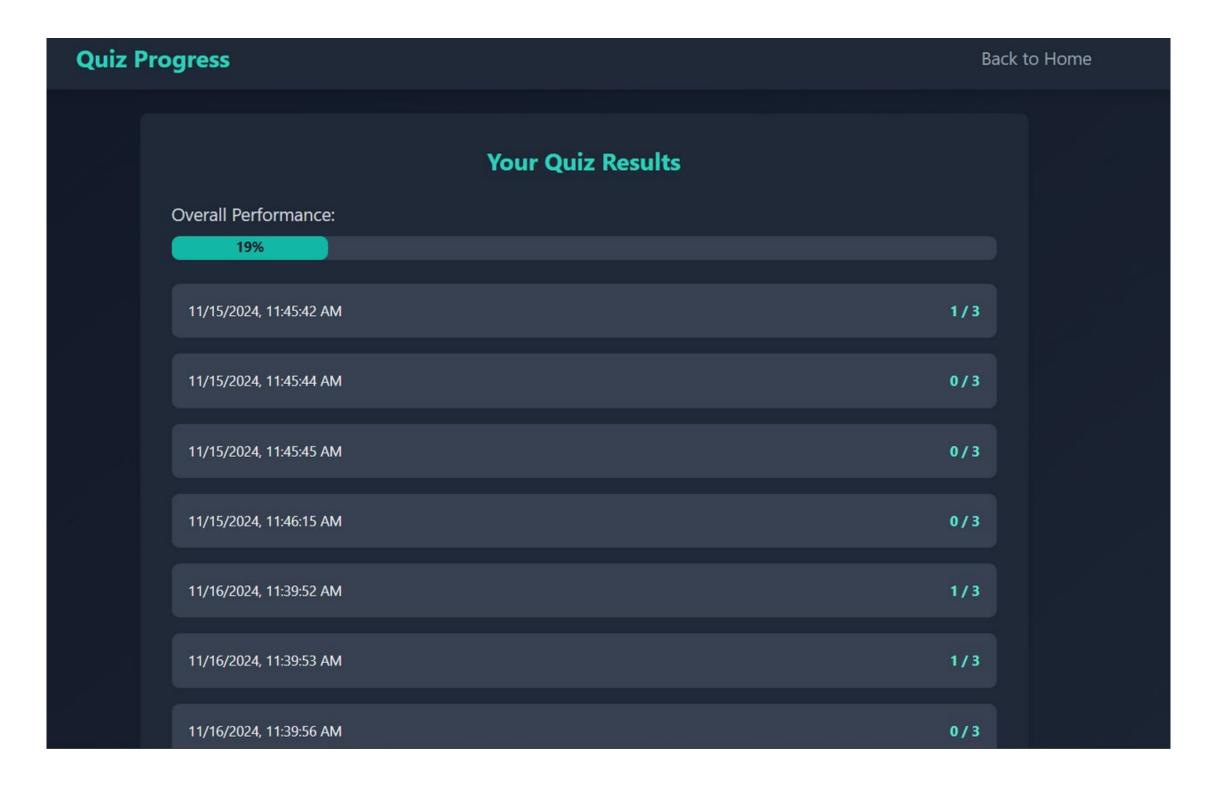
The Quiz Page



Test Your Understanding		Home
	Question 1/3 What has research improved in solar panel efficiency?	
	Battery storage capacity	
	Material durability	
	Integration of perovskite materials	
	Panel size	
Back		Next

The Progress Page





Conclusion



In conclusion, the Soma application aims to empower students, researchers, and learners by simplifying long and complex texts into more digestible formats, ensuring improved understanding and saving valuable time.



Thank you