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SimpliText: making learning easier

Experience innovation and creativity with Azure AI technologies with a dedicated, automated, and AI-enabled environment and SimpliText web app.

Overview

Dyslexia is a common learning difficulty that affects how people read, write, and spell words. It is not a sign of low intelligence, but rather a difference in how the brain processes language. Dyslexia can make learning challenging, as it can affect reading comprehension, spelling accuracy, writing fluency, and phonological awareness. However, with the right support and strategies, people with dyslexia can overcome these difficulties and achieve their goals.

We used innovative tools such as Azure OpenAI models for simplification to text, to offer a unique solution to address these difficulties. The additional features includes text to speech (read aloud), pointer for easy reading, control speed of reading and others. SimpliText is a standalone Version 1 offering.

Benefits



Caters to wide range of audiences



Increases productivity and employability

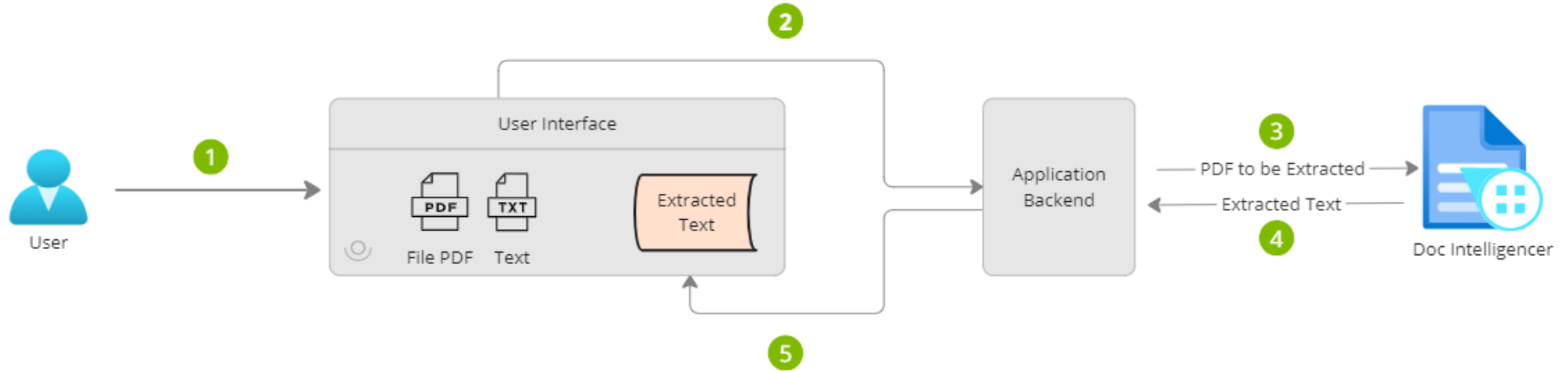


Covers everyday social situations



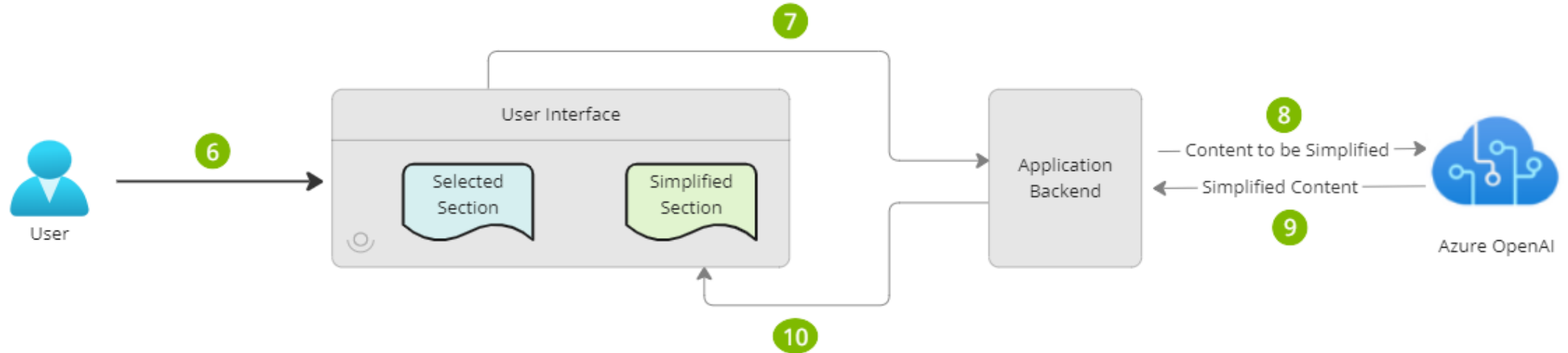
Multiple language support

Architecture Diagram (1/2)



1. A user uploads a PDF file or text to the User Interface.
2. The uploaded content is sent to the Application Backend.
3. The Application Backend sends the PDF to be extracted to Doc Intelligencer
4. Doc Intelligencer processes the PDF, extracts the text and sends it to the Application Backend
5. The extracted text is then displayed on the User Interface, retaining the original format.

Architecture Diagram (2/2)



6. A user selects a section of text on the User Interface.
7. The selected section is processed through the Application Backend.
8. The Application Backend sends the content to be simplified to Azure OpenAI.
9. Azure OpenAI processes the content and simplifies it. The simplified content is then sent back to the Application Backend.
10. The simplified content is displayed back on the User Interface in the Simplified Section for the user to see.

Highlights and Benefits

- **Our app:** Designed with an intuitive interface, our app is user-friendly and caters to a diverse, global audience, breaking down geographical barriers.
- **Efficiency and Employability:** The app aims to streamline reading and learning, enhancing efficiency, and it works as a tool to boost users' employability. Also, advocates for equity and inclusion in the workplace.
- **Social Scenarios:** Beyond work and education, the app extends its reach to everyday social scenarios, fostering better interactions and communication among users.
- **Support:** We support for two document formats for now, ensuring accessibility and convenience for our users.

Additional Features

- Read functionality
- Pointer for easy reading
- Control speed of reading
- Customising the prompt options
- Listen to simplified content

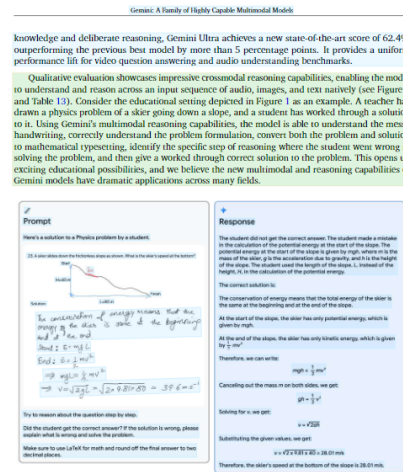


Figure 1 | Verifying a student's solution to a physics problem. The model is able to correctly recognize all of the handwritten content and verify the reasoning. On top of understanding the text in the image, it needs to understand the problem setup and correctly follow instructions to generate PiX.

The reasoning capabilities of large language models show promise toward building generalist agents that can tackle more complex multi-step problems. The AlphaCode team built AlphaCode 2 (LeBlond et al., 2023), a new Gemini-powered agent, that combines Gemini's reasoning capabilities with search and tool-use to excel at solving competitive programming problems. AlphaCode 2 ranks within the top 15% of entrants on the Codeforces competitive programming platform, a large

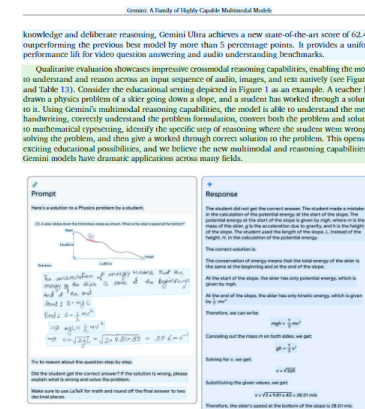
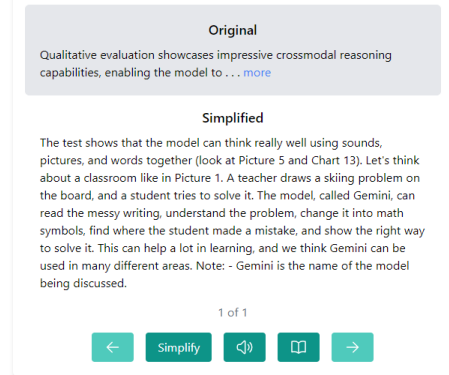
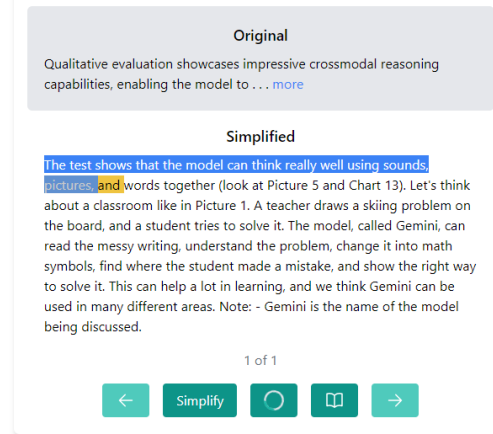


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How to use the app?

- User can paste the text in the text area or upload a document.
- Supported format type is .pdf or .docx.
- User can simplify the text by double clicking on the content highlighted in the box.
- A side panel will appear with the simplified content.
- User can listen to the simplified content by clicking on the play button.
- User can read the content word by word by clicking on the 'read' button.

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Gemini: A Family of Highly Capable Multimodal Models

knowledge and deliberate reasoning, Gemini Ultra achieves a new state-of-the-art score of 63.4%, outperforming the previous best model by more than 5 percentage points. It provides a uniform performance lift for video question answering and audio understanding benchmarks.

Qualitative evaluation showcases impressive crossmodal reasoning capabilities, enabling the model to understand and reason across an input sequence of audio, images, and text natively (see Figure 5 and Table 13). Consider the educational setting depicted in Figure 1 as an example. A teacher has drawn a physics problem of a skier going down a slope, and a student has worked through a solution to it. Using Gemini's multimodal reasoning capabilities, the model is able to understand the messy handwriting, correctly understand the problem formulation, connect both the problem and solution to mathematical typesetting, identify the specific step of reasoning where the student went wrong in solving the problem, and then give a worked through correct solution to the problem. This opens up exciting educational possibilities, and we believe the new multimodal and reasoning capabilities of Gemini models have dramatic applications across many fields.

 VERSION 1

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Original

Qualitative evaluation showcases impressive crossmodal reasoning capabilities, enabling the model to ... more

Simplified

The test shows that the model can think really well using sounds, pictures, and words together (look at Picture 5 and Chart 13). Let's think about a classroom like in Picture 1. A teacher draws a skiing problem on the board, and a student tries to solve it. The model, called Gemini, can read the messy writing, understand the problem, change it into math