

# **Inquisitive: A Multilingual AI Question Generator**

Using PaLM's text-bison 001



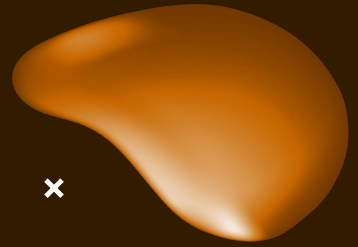


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# TABLE OF CONTENTS



**01 ABOUT THE PROJECT**

**02 REQUIREMENTS**

**03 API AND  
DOCUMENTATION**

**04 TESTING**

**05 CONCLUSION**

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01

# ABOUT THE PROJECT

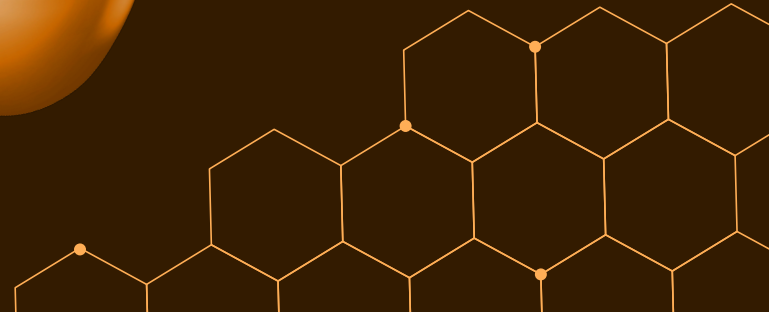
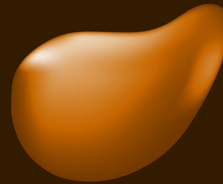
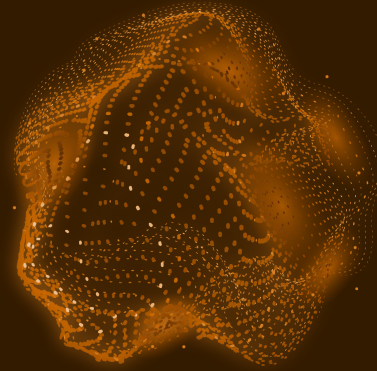
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# PROBLEM STATEMENT

The organization publishes a vast amount of content daily in multiple languages, but manually creating quizzes and assessments for each article is a significant challenge.

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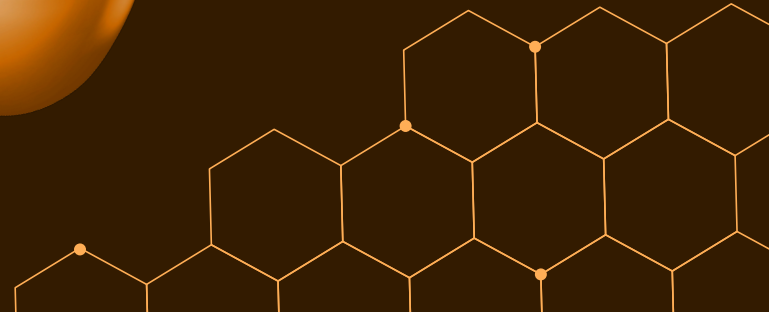
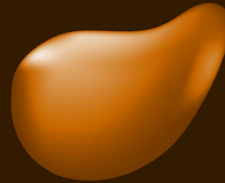
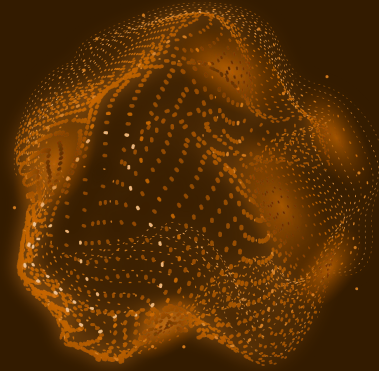
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# SOLUTION

Develop a multilingual AI powered question generator that can automatically create diverse and contextually relevant questions based on the news article.

The question should be tailored to different languages and audience demographics, ensuring cultural sensitivity and accuracy in translation.

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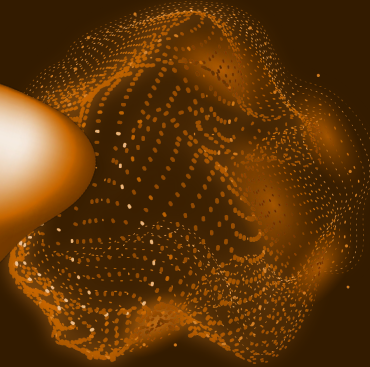
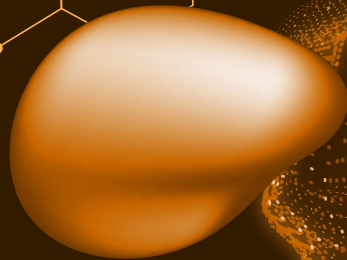
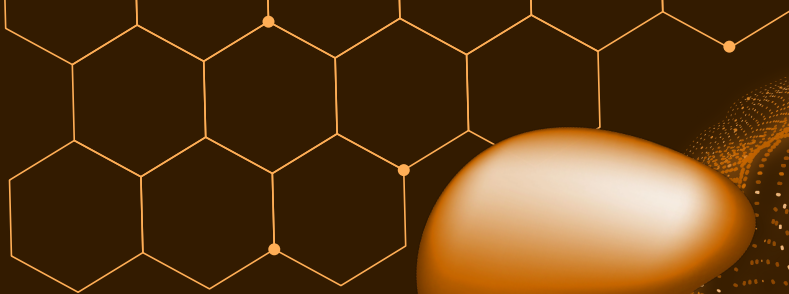
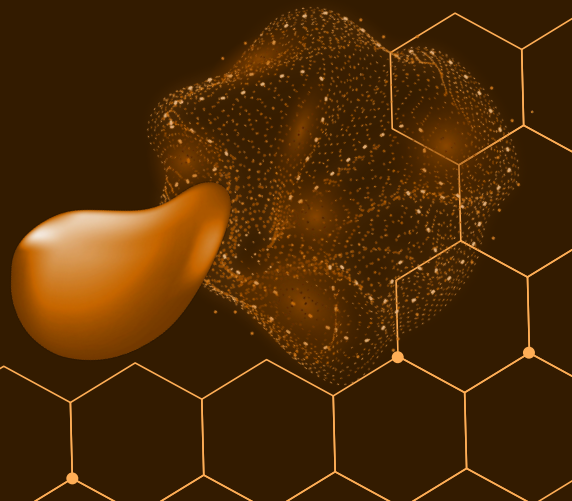


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# REQUIREMENTS



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# APP REQUIREMENTS

1)PaLM's text-bison 001 model: For processing text and generating questions.

2)Streamlit: A powerful framework for building and sharing web apps quickly.

3)Python: The programming language we'll use to glue everything together.

4)APIs: To interact with the PaLM model and translate questions into different languages.

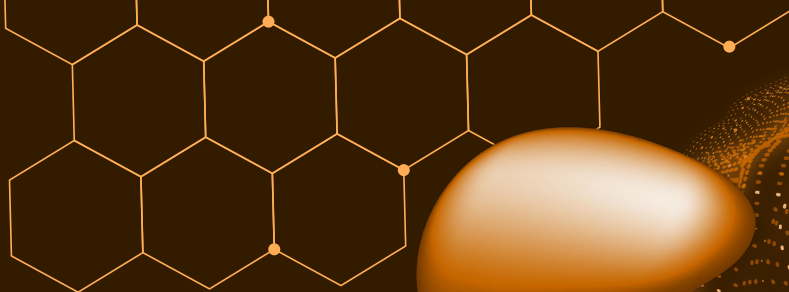
5)Python environment: A properly setup python environment having required libraries installed.



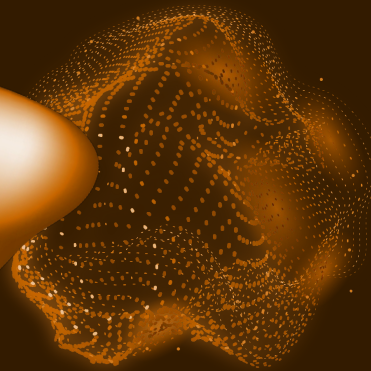
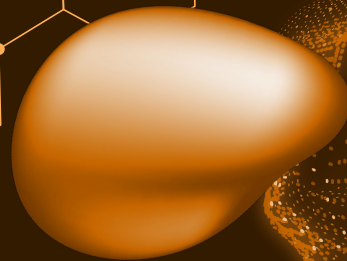
# 03 API AND DOCUMENTATION



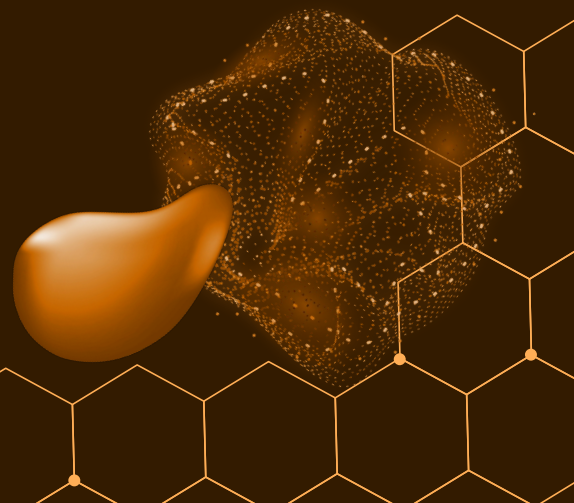
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First, we need to install the required libraries. Open your terminal and run the following commands:

```
pip install streamlit  
pip install transformers  
pip install google-cloud-translate
```



initialize the PaLM model and the Google Translate API:

```
question_generator = pipeline('text2text-generation', model='PaLM-text-vision-002')  
translate_client = translate.Client()
```

With the basic setup complete, let's build the Streamlit interface. Add the following code to your app .py:

```
st.title('Multilingual AI Question Generator')

text_input = st.text_area('Enter your text here:')
language = st.selectbox('Select language for questions:', ['en', 'es', 'fr', 'de', 'zh'])

if st.button('Generate Questions'):
    if text_input:
        questions = question_generator(text_input)
        for question in questions:
            translated_text = translate_client.translate(question['generated_text'], target_language=language)
            st.write(translated_text['translatedText'])
    else:
        st.error('Please enter some text!')
```

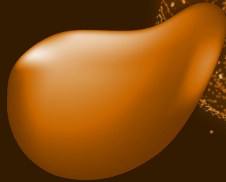
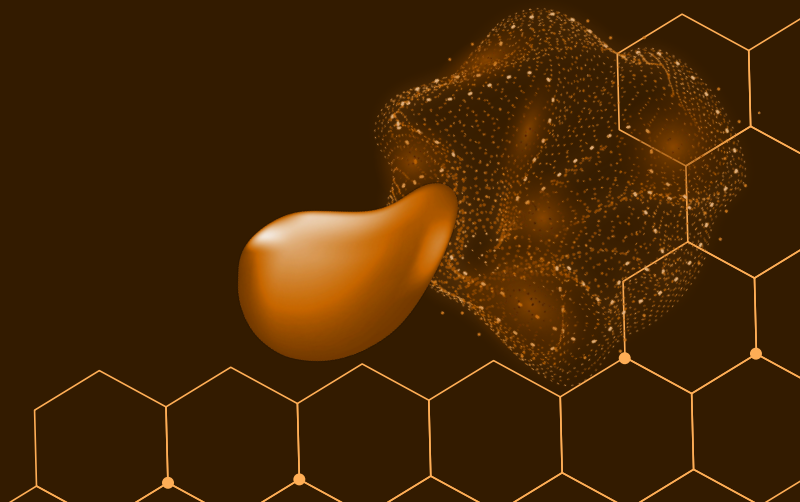
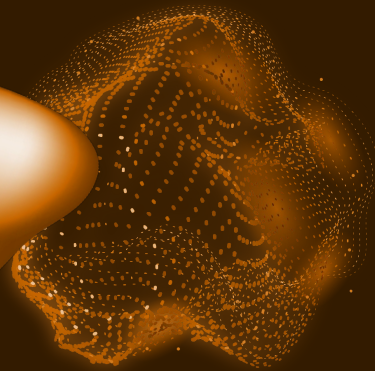
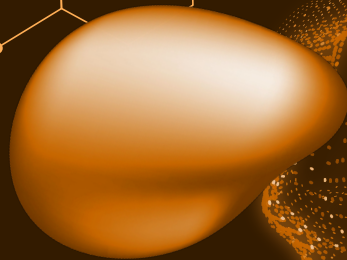
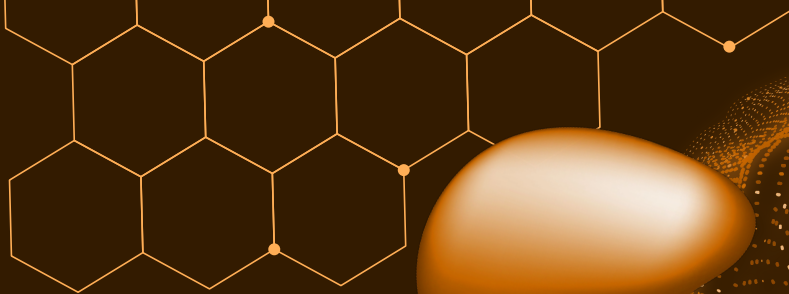
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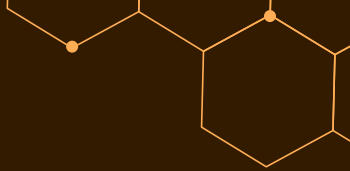
TESTING

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Finally, let's test our application. Run the Streamlit app using the command:

```
streamlit run app.py
```

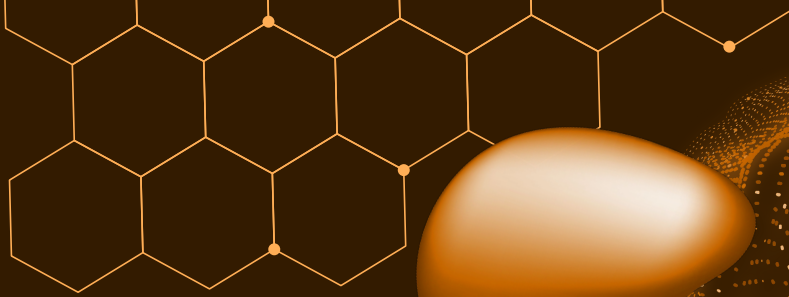
Enter a sample text, select a language, and click 'Generate Questions'. You should see the generated questions translated into the selected language. Test with different texts and languages to ensure everything works smoothly.

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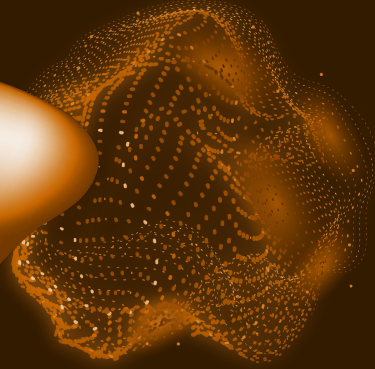
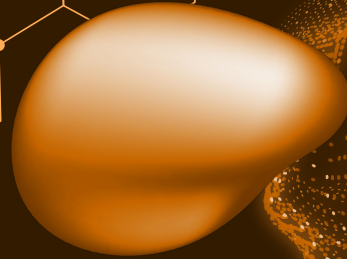
**CONCLUSION**



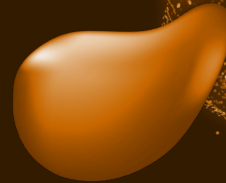
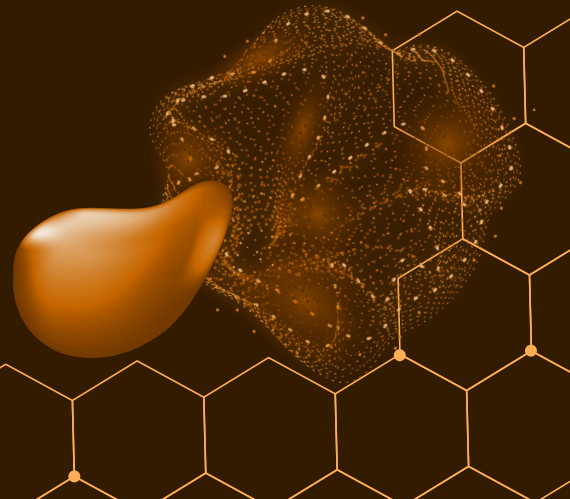
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# CONCLUSION x

This application demonstrates the potential of modern AI and NLP technologies in breaking language barriers and creating versatile tools for diverse use cases. By leveraging the capabilities of the PaLM model, we can generate meaningful and contextually relevant questions in multiple languages. This tool can be invaluable in various domains, such as education, where it can help create multilingual quizzes and learning materials, or customer support, where it can assist in understanding and responding to queries from users worldwide.

