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##Sumedh Bhagat github--> https://github.com/jnvw/chat_template_formater.git
In [1]: import pyparsing as pp
        def format_assistant_tag(content):
             return "{{#assistant}}{}\n{{/assistant}}".format(content)
        def format chat template(input text):
            # Define grammar for user and assistant segments
             user segment = pp.nestedExpr('{{#user}}', '{{/user}}')
             assistant_segment = pp.nestedExpr('{{#assistant}}', '{{/assistant}}')
            # Parse the input text into user and assistant segments
             parsed_text = user_segment | assistant_segment
             parsed_segments = parsed_text.searchString(input_text)
            output_segments = []
            for segment in parsed segments:
                 if segment[0] == '#assistant':
                     assistant_content = segment[1:-1]
                     output_segments.append(format_assistant_tag(''.join(assistant_content))
                 else:
                     user_content = segment[1:-1]
                     output_segments.append("{{#user}}{\n{{/user}}}".format(''.join(user_cor
             if not any(format_assistant_tag("{{gen 'write' }}") in seg for seg in output_se
                 output_segments.append(format_assistant_tag("{{gen 'write' }}"))
             return ' '.join(output_segments)
        # Test Cases
        test_case_1_input = "how are things going, tell me about Delhi\n{{gen 'write' }}"
        test_case_2_input = "Tweak this proverb to apply to model instructions instead. Whe
        test_case_3_input = "{{#user}}Hello\n{{/user}} {{#assistant}}{{gen 'respond'}}{{/as
        test_case_4_input = "{{#user}}Greetings\n{{/user}}"
        test_cases = [
            (test_case_1_input, "how are things going, tell me about Delhi\n{{gen 'write'
             (test_case_2_input, "Tweak this proverb to apply to model instructions instead.
             \label{long} $$ \text{(test\_case\_3\_input, "{{\#user}}Hello\n{{/user}} {{\#assistant}}{{gen 'respond'}}{} $$
             (test_case_4_input, "{{#user}}Greetings\n{{/user}}")
        1
        for idx, (input_text, expected_output) in enumerate(test_cases):
             formatted_output = format_chat_template(input_text)
             print(f"Test Case {idx+1} - Input:")
             print(input_text)
             print("\nExpected Output:")
             print(expected output)
             print("\nFormatted Output:")
             print(formatted_output)
             print("\n" + "="*40 + "\n")
```

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Test Case 1 - Input:
how are things going, tell me about Delhi
{{gen 'write' }}
Expected Output:
how are things going, tell me about Delhi
{{gen 'write' }}
Formatted Output:
{#assistant}{{gen 'write' }}
{/assistant}
_____
Test Case 2 - Input:
Tweak this proverb to apply to model instructions instead. Where there is no guida
nce{{gen 'rewrite'}}
Expected Output:
Tweak this proverb to apply to model instructions instead. Where there is no guida
nce{{gen 'rewrite'}}
Formatted Output:
{#assistant}{{gen 'write' }}
{/assistant}
_____
Test Case 3 - Input:
{{#user}}Hello
{{/user}} {{#assistant}}{{gen 'respond'}}{{/assistant}}
Expected Output:
{{#user}}Hello
{{/user}} {{#assistant}}{{gen 'respond'}}{{/assistant}}
Formatted Output:
{#user}
{/user} {#user}
{/user} {#assistant}{{gen 'write' }}
{/assistant}
Test Case 4 - Input:
{{#user}}Greetings
{{/user}}
Expected Output:
{{#user}}Greetings
{{/user}}
Formatted Output:
{#user}
{/user} {#assistant}{{gen 'write' }}
{/assistant}
```

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