```
from typing import Any
from tenacity import retry, stop_after_attempt, wait_exponential
from swarms.prompts.prompt_generator import (
  prompt_generator_sys_prompt as second_sys_prompt,
)
from swarms.prompts.prompt_generator_optimizer import (
  prompt_generator_sys_prompt,
)
from swarms.utils.loguru_logger import initialize_logger
logger = initialize_logger(log_folder="ape_agent")
@retry(
  stop=stop_after_attempt(3),
  wait=wait_exponential(multiplier=1, min=4, max=10),
)
def auto_generate_prompt(
  task: str = None,
  model: Any = None,
  max_{tokens}: int = 4000,
  use_second_sys_prompt: bool = True,
  *args,
```

**kwargs,

```
):
  Generates a prompt for a given task using the provided model.
  Args:
  task (str, optional): The task for which to generate a prompt.
  model (Any, optional): The model to be used for prompt generation.
  max_tokens (int, optional): The maximum number of tokens in the generated prompt. Defaults to
4000.
  use_second_sys_prompt (bool, optional): Whether to use the second system prompt. Defaults to
True.
  Returns:
  str: The generated prompt.
  ....
  try:
    system_prompt = (
       second_sys_prompt.get_prompt()
       if use_second_sys_prompt
       else prompt_generator_sys_prompt.get_prompt()
    )
    output = model.run(
       system_prompt + task, max_tokens=max_tokens
    )
     print(output)
     return output
```

except Exception as e:
 logger.error(f"Error generating prompt: {str(e)}")
 raise