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agentchat.user_proxy_agent

UserProxyAgent Objects

```
class UserProxyAgent(ConversableAgent)
```

(In preview) A proxy agent for the user, that can execute code and provide feedback to the other agents.

UserProxyAgent is a subclass of ConversableAgent configured with `human_input_mode` to ALWAYS and `llm_config` to False. By default, the agent will prompt for human input every time a message is received. Code execution is enabled by default. LLM-based auto reply is disabled by default. To modify auto reply, register a method with `register_reply`. To modify the way to get human input, override `get_human_input` method. To modify the way to execute code blocks, single code block, or function call, override `execute_code_blocks`, `run_code`, and `execute_function` methods respectively. To customize the initial message when a conversation starts, override `generate_init_message` method.

__init__

```
def __init__(name: str,
             is_termination_msg: Optional[Callable[[Dict], bool]] = None,
             max_consecutive_auto_reply: Optional[int] = None,
             human_input_mode: Optional[str] = "ALWAYS",
             function_map: Optional[Dict[str, Callable]] = None,
             code_execution_config: Optional[Union[Dict,
                                                   Literal[False]]] = None,
             default_auto_reply: Optional[Union[str, Dict, None]] = "",
             llm_config: Optional[Union[Dict, Literal[False]]] = False,
             system_message: Optional[Union[str, List]] = "",
             description: Optional[str] = None)
```

Arguments:

- `name` *str* - name of the agent.
- `is_termination_msg` *function* - a function that takes a message in the form of a dictionary and returns a boolean value indicating if this received message is a termination message. The dict can contain the following keys: "content", "role", "name", "function_call".
- `max_consecutive_auto_reply` *int* - the maximum number of consecutive auto replies. default to None (no limit provided, class attribute MAX_CONSECUTIVE_AUTO_REPLY will be used as the limit in this case). The limit only plays a role when human_input_mode is not "ALWAYS".
- `human_input_mode` *str* - whether to ask for human inputs every time a message is received. Possible values are "ALWAYS", "TERMINATE", "NEVER". (1) When "ALWAYS", the agent prompts for human input every time a message is received. Under this mode, the conversation stops when the human input is "exit", or when is_termination_msg is True and there is no human input. (2) When "TERMINATE", the agent only prompts for human input only when a termination message is received or the number of auto reply reaches the max_consecutive_auto_reply. (3) When "NEVER", the agent will never prompt for human input. Under this mode, the conversation stops when the number of auto reply reaches the max_consecutive_auto_reply or when is_termination_msg is True.
- `function_map` *dict[str, callable]* - Mapping function names (passed to openai) to callable functions.
- `code_execution_config` *dict or False* - config for the code execution. To disable code execution, set to False. Otherwise, set to a dictionary with the following keys:
  - work_dir (Optional, str): The working directory for the code execution. If None, a default working directory will be used. The default working directory is the "extensions" directory under "path_to_autogen".
  - use_docker (Optional, list, str or bool): The docker image to use for code execution. If a list or a str of image name(s) is provided, the code will be executed in a docker container with the first image successfully pulled. If None, False or empty, the code will be executed in the current environment. Default is True, which will be converted into a list. If the code is executed in the current environment, the code must be trusted.
  - timeout (Optional, int): The maximum execution time in seconds.
  - last_n_messages (Experimental, Optional, int): The number of messages to look back for code execution. Default to 1.
- `default_auto_reply` *str or dict or None* - the default auto reply message when no code execution or llm based reply is generated.
- `llm_config` *dict or False* - llm inference configuration. Please refer to OpenAIWrapper.create for available options. Default to false, which disables llm-based auto reply.
- `system_message` *str or List* - system message for ChatCompletion inference. Only used when llm_config is not False. Use it to reprogram the agent.

- `description` *str* - a short description of the agent. This description is used by other agents (e.g. the GroupChatManager) to decide when to call upon this agent. (Default: system_message)

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