



## [AutoGen](#)

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🏠 [Referenceagentchatuser\\_proxy\\_agent](#)

On this page

## 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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