Creating an interval task

Introduction

Sometimes an agent will need to perform a task periodically. To do this we can use theon_interval() decorator which periodically repeats a given function for the agent. For instance, an agent could send a message every 2 seconds to another agent.

Let's get started and create our first interval task!

Walk-through

1. Let's create a Python script for this task, and name it by running:touch interval-task.py
2. Then import the necessary classes fromuagents
3. library,Agent
4. andContext
5. , and create our agent:
6. from
7. uagents
8. import
9. Agent
10. ,
11. Context
12. alice
13. =
14. Agent
15. (name
16. =
17. "alice"
18. , seed
19. =
20. "alice recovery phrase"
21.)
22. We can now define our agent's behavior:
23. @alice
24. .
25. on_interval
26. (period
27. =
28. 2.0
29.)
30. async
31. def
32. say_hello
33. (
34. ctx
35. :
36. Context):
37. ctx
38. .
39. logger
40. .
41. info
42. (
43. f
44. 'hello, my name is
45. {
46. ctx.name
47. }
48. '
49.)
50. if
51. **name**
52. ==
53. "**main**"
54. :

55. alice
56. .
57. run
58. ()
59. The output will be printed out using thectx.logger.info()
60. method.
61. Save the script.

The overall script should look as follows:

interval-task.py from uagents import Agent , Context

alice

Agent (name = "alice" , seed = "alice recovery phrase")

@alice . on_interval (period = 2.0) async

def

say_hello (ctx : Context): ctx . logger . info (f 'hello, my name is { ctx.name } ')

if

name

==

"**main**" : alice . run ()

Run the script

Run the script:python interval-task.py

The output should be as follows:

hello, my name is alice hello, my name is alice hello, my name is alice

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