

```

1 D:\Anaconda\envs\appagent\python.exe -X pycache_prefix=C:\Users\
  jiesheng\AppData\Local\JetBrains\PyCharm2023.3\cpython-cache "D
  :/PyCharm/PyCharm 2023.3/plugins/python/helpers/pydev/pydevd.
  py" --multiprocess --qt-support=auto --client 127.0.0.1 --port 54636
  --file D:\Desktop\projects\AppAgent-main\learn.py
2 □□□□ pydev □□□(□□□□□ 233.11799.259)Warning! No module named
  'sounddevice'
3 Warning! No module named 'matplotlib'
4 Warning! No module named 'keras'
5 Welcome to the exploration phase of AppAgent!
6 The exploration phase aims at generating documentations for UI
  elements through either autonomous exploration or human
  demonstration. Both options are task-oriented, which means you
  need to give a task description. During autonomous exploration, the
  agent will try to complete the task by interacting with possible
  elements on the UI within limited rounds. Documentations will be
  generated during the process of interacting with the correct elements
  to proceed with the task. Human demonstration relies on the user to
  show the agent how to complete the given task, and the agent will
  generate documentations for the elements interacted during the
  human demo. To start, please enter the main interface of the app on
  your phone.
7
8 Choose from the following modes:
9 1. autonomous exploration
10 2. human demonstration
11 Type 1 or 2.
12
13 1
14 What is the name of the target app?
15
16 x
17 Warning! No module named 'sounddevice'
18 Warning! No module named 'matplotlib'
19 Warning! No module named 'keras'
20 List of devices attached:
21 ['127.0.0.1:7555']
22
23 Device selected: 127.0.0.1:7555
24
25 Screen resolution of 127.0.0.1:7555: 1080x1920

```

26

27 Please enter the description of the task you want me to complete in a
few sentences:

28

29 □x□□□musk

30 Round 1

31

32 Thinking about what to do in the next step...

33

34 □□□□□ \$0.02

35

36 Observation:

37

38 The screenshot shows a social media app interface with various tabs
such as "For you," "Trending," "News," "Sports," and "Entertainment
." There is a search bar at the top with a numeric tag 1. The interface
is in Chinese, and there are several posts or topics with tags, but none
of them are related to "musk."

39

40 Thought:

41

42 To complete the given task, which is to follow "musk" on this
platform, I should first tap on the search bar to bring up the keyboard
and enter the search term.

43

44 Action:

45

46 tap(1)

47

48 Summary:

49

50 I have initiated the search function by tapping on the search bar to
proceed with the task of following "musk."

51

52 Reflecting on my previous action...

53

54 □□□□□ \$0.03

55

56 Decision:

57

58 SUCCESS

59

60 Thought:

61

62 The action of tapping the search bar has brought up a search interface with "Elon Musk" as a suggested search term, which aligns with the task of following "musk." This indicates that the action has successfully moved the task forward by initiating the search function, which is a step towards following the individual in question.

63

64 Documentation:

65

66 The UI element functions as a search bar that, when tapped, activates the search feature allowing users to input search queries and find specific content or profiles within the app.

67

68 Documentation generated and saved to ./apps\x\auto_docs\com.twitter.android.id_app_bar_com.twitter.android.id_toolbar_0.txt

69

70 Round 2

71

72 Thinking about what to do in the next step...

73

74 □□□□□□ \$0.02

75

76 Observation:

77

78 The image shows a social media app with search results for "musk." There is a profile labeled "Elon Musk" with the username "@elonmusk" and a button next to it that seems to be for following the profile, labeled with the number 9.

79

80 Thought:

81

82 To complete the given task, which is to follow "musk," I should tap on the follow button next to the profile of "Elon Musk."

83

84 Action:

85

86 tap(9)

87

88 Summary:

89

90 I have initiated the search function and entered "musk" into the search bar, and now I have tapped on the follow button next to the profile of "Elon Musk" to follow it.

91

92 Reflecting on my previous action...

93

94 □□□□□□ \$0.03

95

96 Decision:

97

98 BACK

99

100 Thought:

101

102 The action taken seems to have refreshed the search results or altered the search query, as the second screenshot shows different search results from the first one. The profile of "Elon Musk" is no longer visible, which indicates that the task to follow "Elon Musk" cannot proceed from this interface.

103

104 Documentation:

105

106 The UI element appears to refresh the search results or modify the search query when interacted with.

107

108 Documentation generated and saved to ./apps\x\auto_docs\android.widget.LinearLayout_1080_156_com.twitter.android.id_tapahead_1.txt

109

110 Round 3

111

112 Thinking about what to do in the next step...

113

114 □□□□□□ \$0.02

115

116 Observation:

117

118 The screenshot shows a search result page on a social media platform with various accounts listed after searching for the term "musk." One of the accounts listed is labeled with the number 10 and appears to be the official account of a person named Elon Musk, as

118 indicated by the blue verification checkmark next to the name.
119
120 Thought:
121
122 To complete the given task, which is to follow the account of a
person named Musk, I should tap on the correct UI element that
corresponds to the official account of this person.
123
124 Action:
125
126 tap(10)
127
128 Summary:
129
130 I have tapped on the UI element that corresponds to the official
account of the person named Musk to follow the account.
131
132 Reflecting on my previous action...
133
134 □□□□□ \$0.03
135
136 Decision:
137
138 SUCCESS
139
140 Thought:
141
142 The action of tapping the UI element has navigated to the official
account page of the person named Musk, which is in line with the
description of following the account. This action has successfully
moved the task forward as it is a step towards following the account
on the platform.
143
144 Documentation:
145
146 The UI element functions as a link to the official account page of a
user on the platform.
147
148 Documentation generated and saved to ./apps\x\auto_docs\com.
twitter.android.id_search_suggestions_list_android.widget.
RelativeLayout_1080_192_4.txt

149

150 Round 4

151

152 Thinking about what to do in the next step...

153

154 □□□□□□ \$0.02

155

156 Observation:

157

158 The screenshot shows a social media profile for a user named Elon Musk, with a verified checkmark next to the name. There is a follow button labeled with the number 4, which is currently not highlighted or activated, suggesting that the profile is not yet followed.

159

160 Thought:

161

162 To complete the given task, I should tap the follow button to follow the account.

163

164 Action:

165

166 tap(4)

167

168 Summary:

169

170 I have tapped on the follow button corresponding to the official account of the person named Musk to follow the account.

171

172 Reflecting on my previous action...

173

174 □□□□□□ \$0.03

175

176 Decision:

177

178 SUCCESS

179

180 Thought:

181

182 The action of tapping the UI element labeled '4' resulted in a change from a "follow" button to a "following" button, indicating that the user has successfully followed the account. This aligns with the

182 description of the action and moves the task of following the
 account named Musk forward.

183

184 Documentation:

185

186 The UI element functions as a toggle button to follow or unfollow
 an account on the platform.

187

188 Documentation generated and saved to ./apps\x\auto_docs\com.
 twitter.android.id_button_bar_com.twitter.android.
 id_button_bar_follow_□□ElonMusk□□□□_5.txt

189

190 Round 5

191

192 Thinking about what to do in the next step...

193

194 □□□□□□ \$0.02

195

196 Observation:

197

198 The screenshot shows a social media app profile for "Elon Musk"
 with a verified checkmark, indicating it is an official account. There is
 a follow button labeled with the number 5, which suggests that it is
 an interactive element. The user interface is in Chinese, and the
 follow button reads "□□," which means "follow" in English.

199

200 Thought:

201

202 Since the task is to follow Elon Musk on this platform and the follow
 button is visible, the next step should be to tap the follow button to
 initiate the follow action.

203

204 Action:

205

206 tap(5)

207

208 Summary:

209

210 I have tapped on the follow button corresponding to the official
 account of Elon Musk to follow the account.

211

212 Reflecting on my previous action...
213
214 □□□□□□ \$0.03
215
216 Decision:
217
218 SUCCESS
219
220 Thought:
221
222 The action of tapping the UI element labeled '5' has resulted in a change in the interface, indicating that the user has successfully followed the official account of Elon Musk, which is in line with the task to follow Musk on the platform.
223
224 Documentation:
225
226 The UI element functions as a follow button, allowing users to follow or subscribe to the account of the individual or entity displayed.
227
228 Documentation generated and saved to ./apps\x\auto_docs\com.twitter.android.id_button_bar_com.twitter.android.id_button_bar_super_follow_□□ElonMusk□_5.txt
229
230 Round 6
231
232 Thinking about what to do in the next step...
233
234 □□□□□□ \$0.02
235
236 Observation:
237
238 The screenshot shows a pop-up message with the text "□□□" which means "Followed" in English, indicating that the action to follow the account has been successful. There is a button labeled with the number 2 that says "□□" which means "Got it" or "Understand" in English.
239
240 Thought:
241

242 To complete the given task, the next step I should do is to
 acknowledge the successful follow action by tapping the "Got it"
 button.

243

244 Action:

245

246 tap(2)

247

248 Summary:

249

250 I have successfully followed the official account of Elon Musk and
 acknowledged the confirmation message by tapping the "Got it"
 button.

251

252 Reflecting on my previous action...

253

254 □□□□□□ \$0.03

255

256 Decision:

257

258 INEFFECTIVE

259

260 Thought:

261

262 The two screenshots provided are identical, indicating that no
 change has occurred on the screen after the UI element was tapped.
 This suggests that the action of tapping the UI element did not
 register any effect, and therefore, the task has not moved forward.

263

264 Round 7

265

266 Thinking about what to do in the next step...

267

268 □□□□□□ \$0.02

269

270 Observation:

271

272 The screenshot shows a pop-up message with the text "□□□" (which
 means "Followed") and a button labeled "□□" (which means "
 Understood"). This indicates that the action to follow "elonmusk"
 has already been completed.

273

274 Thought:

275

276 Since the task was to follow "elonmusk" and the pop-up message confirms that it has been done, the next step is to acknowledge the message by tapping the "□□" button.

277

278 Action:

279

280 tap(1)

281

282 Summary:

283

284 The task to follow "elonmusk" on the platform has been completed, and the confirmation message has been acknowledged by tapping the "Understood" button.

285

286 Reflecting on my previous action...

287

288 □□□□□□ \$0.03

289

290 Decision:

291

292 SUCCESS

293

294 Thought:

295

296 The action described as tapping the UI element to follow "elonmusk" and acknowledging the confirmation message appears to have been successful. The first screenshot shows a confirmation message with an "Understood" button, and the second screenshot shows the profile of "Elon Musk" with a follow button, indicating that the user is now viewing the profile where they can follow the individual. This aligns with the task to follow "elonmusk" on the platform, suggesting that the task has moved forward.

297

298 Documentation:

299

300 The UI element functions as a confirmation button that, when tapped, dismisses the confirmation message and possibly navigates the user to the relevant profile page to continue with the task.

301
302 Documentation generated and saved to ./apps\x\auto_docs\android.
widget.LinearLayout_882_156_android.id_button1_0.txt
303
304 Round 8
305
306 Thinking about what to do in the next step...
307
308 □□□□□□ \$0.02
309
310 Observation:
311
312 The screenshot shows a social media profile for "Elon Musk" with a
verified checkmark. There are several UI elements, including a back
arrow (15), settings (16), and more options (17). Below the profile
header, there are tabs for different sections of the profile, and the
current tab seems to be the "□□" (Following) tab, which lists
accounts that Elon Musk is following. There is also a floating action
button with a "+" sign (19), which is typically used for creating a new
post or performing another primary action on social media apps.
313
314 Thought:
315
316 Since the task was to follow "elonmusk" and the confirmation
message has been acknowledged, there are no further actions
required to complete this specific task. The task is complete, and
there is nothing more to do regarding following Elon Musk.
317
318 Action:
319
320 FINISH
321
322 Summary:
323
324 The task to follow "elonmusk" on the platform has been completed,
and the confirmation message has been acknowledged. No further
actions are required.
325
326 Autonomous exploration completed successfully. 6 docs generated.
327
328

329 □□□□□□□□□□ 0

330