Tree * ka output for directory structure:

tree-output.txt	45 docs
1 browser_use	46 ├─ cloud
2 — agent	47 — implementation.mdx
3 — message_manager	48 — quickstart.mdx
4 — service.py	49 — customize
5 — tests.py	50 — agent-settings.mdx
6	51 browser-settings.mdx
7 — prompts.py	52 — custom-functions.mdx
8 — service.py	53 — output-format.mdx
9 — tests.py	54 — real-browser.mdx
10 views.py	55 — sensitive-data.mdx
11 — browser	56 Supported-models.mdx
12 — browser.py	57 system-prompt.mdx
13 — context.py	58 — development
14 tests	59 — contribution-guide.mdx
15 — screenshot_test.py	60 — local-setup.mdx
16 test_clicks.py	61 — observability.mdx
17 views.py	62 — roadmap.mdx
18 — controller	63 telemetry.mdx
19 registry	64 — development.mdx
20 — service.py	65 — favicon.svg
21 views.py	66 — images
22 — service.py	67 browser-use.png
23 views.py	68 — checks-passed.png
24 ├─ dom	69 Laminar.png
25 — buildDomTree.js	70 ├─ introduction.mdx
26 history_tree_processor	71 — logo
27 service.py	72 — dark.svg
28 — view.py	73
29 —initpy	74 — mint.json
30 — service.py	75 — quickstart.mdx
31 — tests	76 — README.md
32 — extraction_test.py	77 eval
33 i process_dom_test.py	78
34 └─ views.py	79 examples
35 —initpy	80 - browser
36 — logging_config.py	81 — real_browser.py
37 - README.md	82 └─ using_cdp.py
38 — telemetry	83 — custom-functions
39 — service.py	84 — advanced_search.py
40 L views.py	85 — clipboard.py
41 — utils.py	86 — file_upload.py
42 codebeaver.yml [error opening dir]	87 — notification.py
43 conftest.py [error opening dir]	88 L— save_to_file_hugging_face.py
44 directory-tree.txt [error opening dir]	89 — features

89	— features				
90		130	use-cases		
91		131	— captcha.py		
92	custom_system_prompt.py	132	- check_appointment.py		
	custom_user_agent.py	133	- find_and_apply_to_jobs.py		
93	├─ download_file.py	134	- online_coding_agent.py		
94	- follow_up_tasks.py	135	- post-twitter.py		
95	— initial_actions.py	136	- README.md		
96	├─ multiple_agents_same_browser.py	137	- scrolling_page.py		
97	├── multi-tab_handling.py	138	- shopping.py		
98	├── parallel_agents.py	139	- test_cv.txt		
99	— pause_agent.py	140	— twitter_cookies.txt		
100	planner.py	141	— twitter_post_using_cookies.py		
101	restrict_urls.py	142	└─ web_voyager_agent.py		
102	result_processing.py	143	LICENSE [error opening dir]		
103	save_trace.py	144	project-dir-overview.txt [error opening dir]		
104	— sensitive_data.py	145 146	pyproject.toml [error opening dir]		
105			pytest.ini [error opening dir]		
106	walidate_output.py	147	README.md [error opening dir]		
107	integrations	148 149	SECURITY.md [error opening dir] static		
	, -	150	Frowser-use-dark.png		
108	discord	151	browser-use.png browser-use.png		
109	discord_api.py	152	— browser-use.png ├─ kayak.gif		
110	discord_example.py	153	— hotos.gif		
111	└─ slack	154	tests		
112	README.md	155	- conftest.py		
113	slack_api.py	156	— mind2web_data		
114	└─ slack_example.py	157	processed.json		
115	- models	158	- test_agent_actions.py		
116	— azure_openai.py	159	test_attach_chrome.py		
117	- bedrock_claude.py	160	— test_browser.py		
118	— deepseek.py	161	— test_context.py		
119	deepseek-r1.py	162	test_core_functionality.py		
120	— gemini.py	163	— test_dropdown_complex.py		
121	├── gpt-4o.py	164	— test_dropdown_error.py		
122	— ollama.py	165	— test_dropdown.py		
123	wen.py	166	— test_excluded_actions.py		
124	- notebook	167	— test_full_screen.py		
125	agent_browsing.ipynb	168	— test_gif_path.py		
		169	test_mind2web.py		
126	- simple.py	170	— test_models.py		
127	- ui	171	— test_qwen.py		
128	— command_line.py	172	— test_react_dropdown.py		
129	│ └─ gradio_demo.py	173	— test_save_conversation.py		
130	use-cases	174	— test_self_registered_actions.py		
131	— captcha.py	175	— test_service.py		
132	— check_appointment.py	176	— test_stress.py		
133	├─ find_and_apply_to_jobs.py	177	└─ test_vision.py		

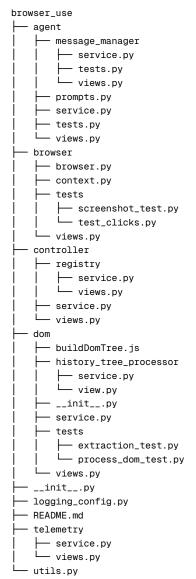
Directory structure ke notes:

- Main stuff is in 'browser-use'
- Others not important for code

Project uses playwright for Browser automation tasks, playwright lets it extract and label all the div's in the html/ejs.

Exploring 'browser-use'

Dir structure:



logging_config.py

- 1. Loads the .env
- 2. addLoggerLevel:
 - A. Args:
 - o levelName: new logging ka name, eg: 'TRACE'
 - o levelNum: number of the level
 - o methodName: name of the method to log
 - C. Function:
 - o Check if name and mname already exists, raise error if true
 - o Add the new logger level & name to 'logging' module & method to logger class
- 3. Setup_logging:
 - A. Add logginglevel of 'RESULT' and NUM 35
 - B. Gets logging_level from envi
 - C. Checks if any handler is set up
 - D. Defines BrowserUserFormatter, which formats the log messages
 - E. Sets up console handler
 - F. Configure root logger & itts logger level based on the level retrieved from env

__init__.py

- 1. Sets up logging
- 2. Imports browser_use modules from agent, browser, controller & dom

```
from browser_use.agent.prompts import SystemPrompt as SystemPrompt
from browser_use.agent.service import Agent as Agent
from browser_use.agent.views import ActionModel as ActionModel
from browser_use.agent.views import ActionResult as ActionResult
from browser_use.agent.views import AgentHistoryList as AgentHistoryList
from browser_use.browser.browser import Browser as Browser
from browser_use.browser.browser import BrowserConfig as BrowserConfig
from browser_use.browser.context import BrowserContextConfig
from browser_use.controller.service import Controller as Controller
from browser_use.dom.service import DomService as DomService
```

3. Defines __all__ for import * in other files.

```
$ tree dom
dom
buildDomTree.js
history_tree_processor
service.py
view.py
___init__.py
__ service.py
__ tests
__ extraction_test.py
__ process_dom_test.py
__ views.py
```

history_tree_processor

- A. view.py
- 1. HashedDomElement
 - a. Repre hashed DOM element. Maintains XPath, branchPath and Attr for easily extracting DOm elements through scripts/queries.
- 2. Coordinates
- 3. CoordinateSet
- 4. ViewportInfo
- 5. DOMHistoryElement
 - a. Repre DOM ele in History Tree

В.