



From AI Idea to Prototype, Instantly

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Q Go to file

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Code

...

emilydawson-bv

 feat(PD-296677): Create stream endpoint and stream FE completion r...






⋮

✖

ba0b22a · 18 hours ago

🕒

📁 .github	chore: add PR template	2 days ago
📁 .instructions	feat(dev): Add shadcdn mcp	4 days ago
📁 .vscode	feat(dev): Add shadcdn mcp	4 days ago
📁 common	feat(tools): Support openapi3 tools ...	3 weeks ago
📁 docs	feat(docs): add example for simple ...	last week
📁 examples	feat(dsl): Require type for Steps (#...	4 days ago
📁 qtype	Merge branch 'main' into feat-PD-2...	18 hours ago
📁 schema	feat(dsl): Require type for Steps (#...	4 days ago
📁 tests	feat(dsl): Require type for Steps (#...	4 days ago
📁 ui	Merge branch 'main' into feat-PD-2...	18 hours ago
📄 .env.example	feat(env): add example environmen...	4 months ago
📄 .gitignore	fix(ui): Update chat UI for correct s...	2 months ago
📄 .pre-commit-config.yaml	feat(api): enhance batch processin...	last month
📄 .python-version	feat(python): Update to python 3.10	3 months ago

 LICENSE	Change copywrite to Bazaarvoice	3 months ago
 README.md	feat(docs): Update getting started ...	2 months ago
 mkdocs.yml	feat(dsl): Add Support for Custom ...	2 months ago
 pyproject.toml	feat(dsl): Require type for Steps (#...	4 days ago
 uv.lock	feat(dsl): Require type for Steps (#...	4 days ago

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QType

QType is a domain-specific language (DSL) for rapid prototyping of AI applications.

It is designed to help developers define modular, composable AI systems using a structured YAML-based specification. QType supports models, prompts, tools, retrievers, and flow orchestration, and is extensible for code generation or live interpretation.



Quick Start

Install QType:

```
pip install qtype[interpreter]
```



Create a file `hello_world.qtype.yaml` that answers a question:

```
id: hello_world
flows:
  - id: chat_example
    description: A simple chat flow with OpenAI
    mode: Chat
    steps:
      - id: llm_inference_step
        model:
          id: gpt-4
          provider: openai
          auth:
            id: openai_auth
            type: api_key
            api_key: ${OPENAI_KEY}
        system_message: |
          You are a helpful assistant.
        inputs:
          - id: user_message
            type: ChatMessage
        outputs:
```



```
- id: response  
  type: ChatMessage
```

Put your openai api key into your `.env` file:

```
echo "OPENAI_KEY=sk...." >> .env
```



Validate it's semantic correctness:

```
qtype validate hello_world.qtype.yaml
```



You should see:

```
INFO: [✓] Schema validation successful.  
INFO: [✓] Model validation successful.  
INFO: [✓] Language validation successful  
INFO: [✓] Semantic validation successful
```



Launch the interpreter:

```
qtype serve hello_world.qtype.yaml`
```



And go to <http://localhost:8000/ui> to see the user interface for your application:

Hello World Chat



Chat Example

A simple chat flow with OpenAI



New Conversation



Start a conversation!



Type your message... (Enter to send, Shift+Enter for new line)



See the [full docs](#) for more examples and guides.



Contributing



Releases 16



Version 0.0.16

Latest

2 weeks ago

[+ 15 releases](#)

Packages

No packages published
[Publish your first package](#)

Contributors 5



Deployments 46

- ✓ **pypi** 2 weeks ago
- ✓ **github-pages** last week

[+ 44 deployments](#)

Languages

● **Python** 79.2% ● **TypeScript** 16.1% ● **HTML** 3.7% ● **Other** 1.0%