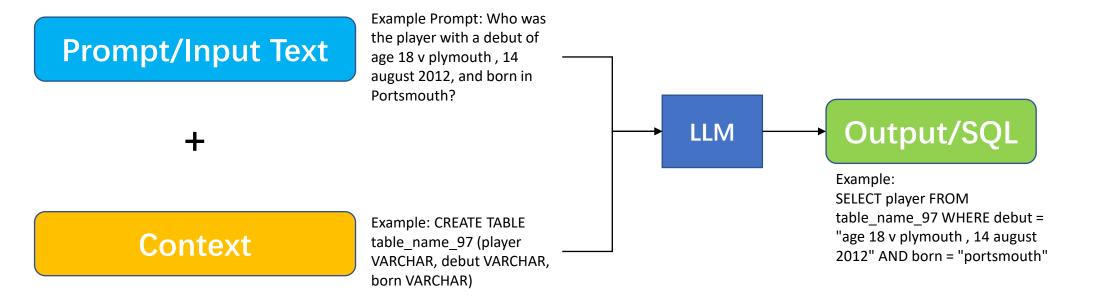
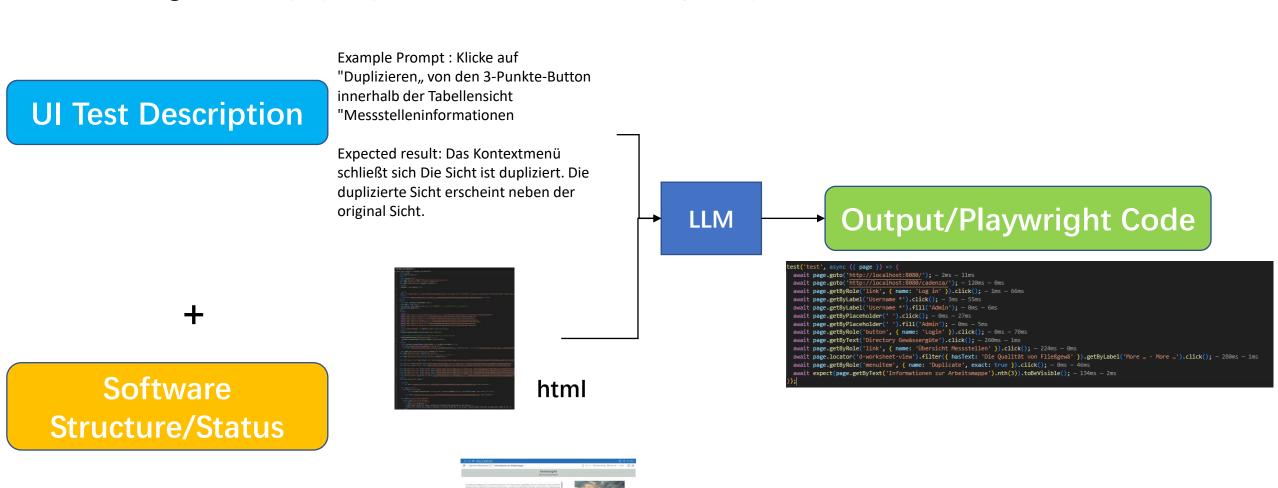
Notebook: TEXT TO SQL

LLM model generates SQL from text given table list with "CREATE TABLE" statements.

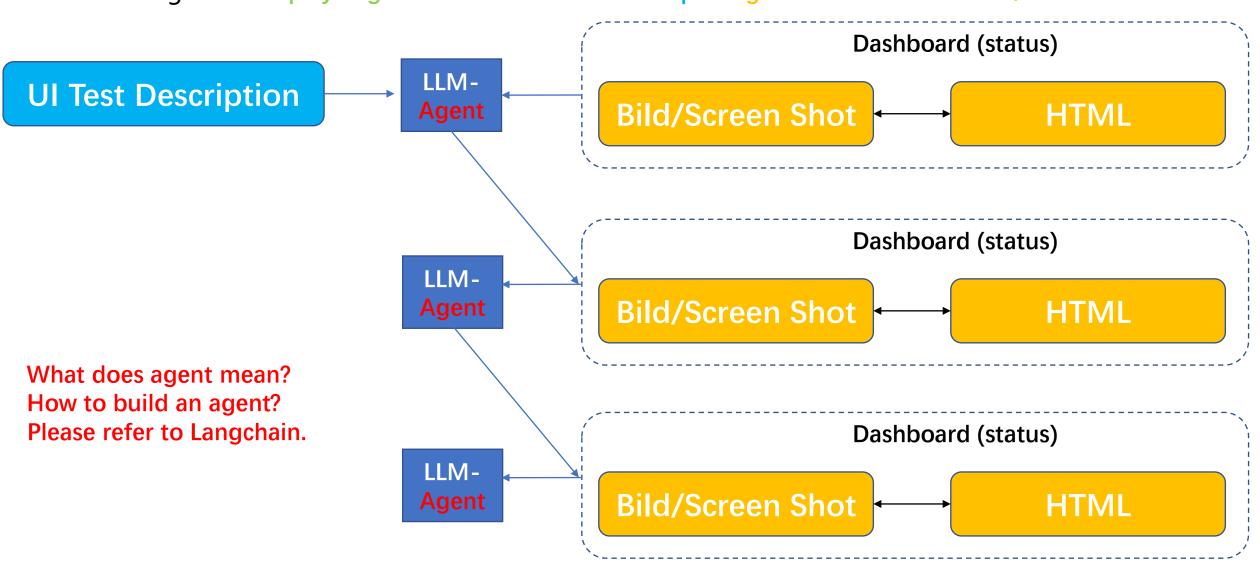


LLM model generates playwright code from UI Test Description given Software Structure/Status.



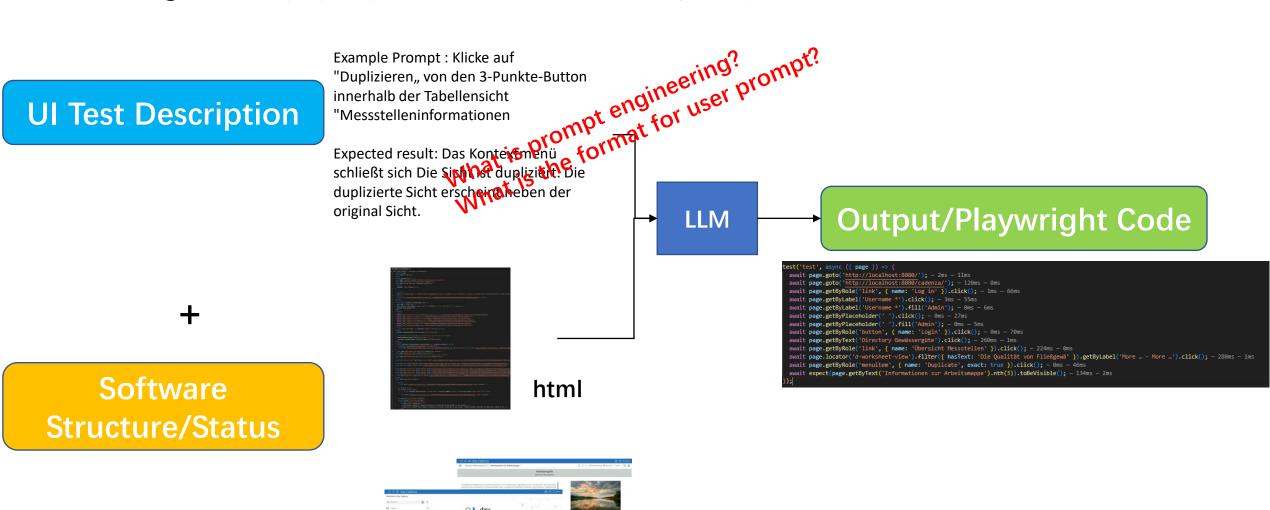
screenshot

LLM model generates playwright code from UI Test Description given Software Structure/Status.



What data are collected in what format?

LLM model generates playwright code from UI Test Description given Software Structure/Status.



screenshot

Prompt engineering approach

strictjson: https://github.com/tanchongmin/strictjson

jsonformer : https://github.com/1rgs/jsonformer

Guardrails: https://github.com/guardrails-

ai/guardrails

Outlines: https://github.com/outlines-dev/outlines

Instructor: https://github.com/jxnl/instructor

Struct-gpt:

https://github.com/knowsuchagency/struct-gpt

LLM model generates playwright code from UI Test Description given Software Structure/Status.

UI Test Description

Example Prompt : Klicke auf
"Duplizieren,, von den 3-Punkte-Button
innerhalb der Tabellensicht
"Messstelleninformationen

Expected result: Das Kontextmenü schließt sich Die Sicht ist dupliziert. Die duplizierte Sicht erscheint neben der original Sicht.

+

Software Structure/Status



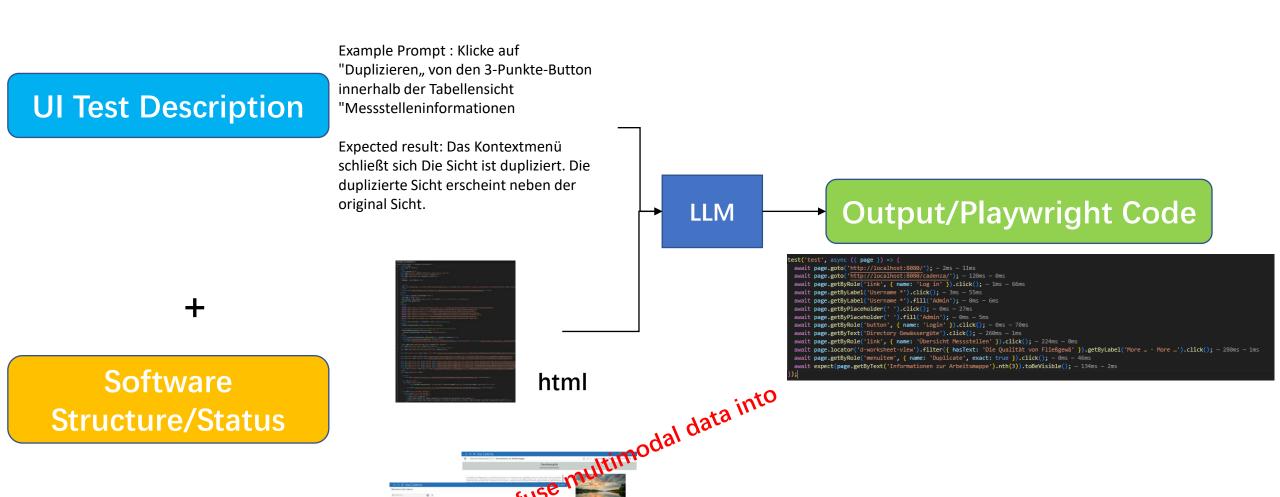
screenshot

Output/Playwright Code

```
await page.goto('http://localhost:8080/'); - 2ms - 11ms
await page.goto('http://localhost:8080/cadenza/'); - 120ms - 0ms
await page.getby(http://localhost:8080/cadenza/'); - 120ms - 0ms
await page.getby(label('link', { name: 'log in' }); - 2ms - 56ms
await page.getby(label('Username *').click(); - 3ms - 55ms
await page.getby(label('Username *').click(); - 3ms - 55ms
await page.getby(label('Username *').click(); - 0ms - 27ms
await page.getby(label('Username *').click(); - 0ms - 27ms
await page.getby(label('Username *').click(); - 0ms - 70ms
await page.getby(label('Utername *').click(); - 26ms - 1ms
await page.getby(label('Utername' login')).click(); - 26ms - 1ms
await page.getby(label('link', { name: 'Ubprischt Nessstellen' }).click(); - 224ms - 0ms
await page.getby(label('menuitem', { name: 'Ubprischt Nessstellen' }).click(); - 224ms - 0ms
await page.getby(label('menuitem', { name: 'Ubprischt', exact: true }).click(); - 0ms - 46ms
await page.getby(label('menuitem', { name: 'Ubplicate', exact: true }).click(); - 0ms - 46ms
await expect(page.getby(Text('Informationen zur Arbeitsmappe').nth(3)).to8eVisible(); - 134ms - 2ms

));
```

LLM model generates playwright code from UI Test Description given Software Structure/Status.



screenshot

LLM model generates playwright code from UI Test Description given Software Structure/Status.

UI Test Description

Example Prompt : Klicke auf
"Duplizieren,, von den 3-Punkte-Button
innerhalb der Tabellensicht
"Messstelleninformationen

Expected result: Das Kontextmenü schließt sich Die Sicht ist dupliziert. Die duplizierte Sicht erscheint neben der original Sicht.



html

screenshot

Software Structure/Status



test('test', async ((page)) => { await page.goto('http://localhost:8880/'); - 2ms - 11ms await page.goto('http://localhost:8880/'); - 2ms - 11ms await page.goto('http://localhost:8880/'); - 12ms - 0ms await page.goto(http://localhost:8880/cadenza/'); - 12ms - 0ms await page.goto(becl'link', (name: 'log in')).click(); - 1ms - 66ms await page.gotbylabel('lisername *').click(); - 3ms - 55ms await page.gotbylabel('lisername *').flit('Amin'); - 0ms - 6ms await page.gotbylacholder(' ').click(); - 0ms - 2ms await page.gotbylacholder(' ').flit('Amin'); - 0ms - 6ms await page.gotbylacholder(' ').flit('); - 0ms - 2ms await page.gotbylacholder(' ').flit('shork) - 1ms await page.gotbylacholder(' ').gotbylacholder(' ').gotbylacholder(').gotbylacholder(').gotbylacholder(').gotbylacholder(').gotb