

## 📁📁📁 (📁📁📁📁/📁)

- **app.py**

- Streamlit UI (📁/📁/📁)
- make\_puns(...) 📁📁📁
- CSV DB: history.csv / favorites.csv 📁📁

- **pun\_engine/generator.py**

- make\_puns(word, lang\_hint, n) -> Dict
- jp\_puns(...), en\_puns(...)
- fetch\_wikipedia\_summary(...), datamuse\_rhymes(...)
- CSV📁📁📁📁: ensure\_csv, append\_csv, read\_csv

- **pun\_engine/jp\_utils.py**

- is\_japanese(s) - 📁📁📁📁📁📁
- to\_katakana(s) - 📁📁📁→📁📁📁📁

- **assets/**

- system\_design.(png|pdf)
- code\_layout.(png|pdf)

- **data/**

- history.csv, favorites.csv📁📁📁📁