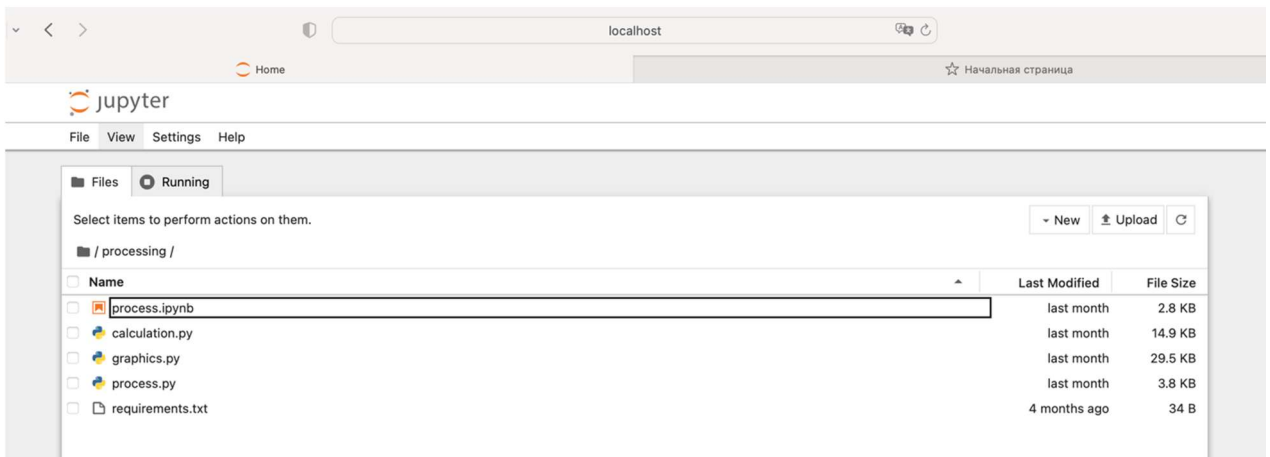


**Рейтингование и измерение эксплуатационных
характеристик подсистем обнаружения атак на
биометрическое предъявление**

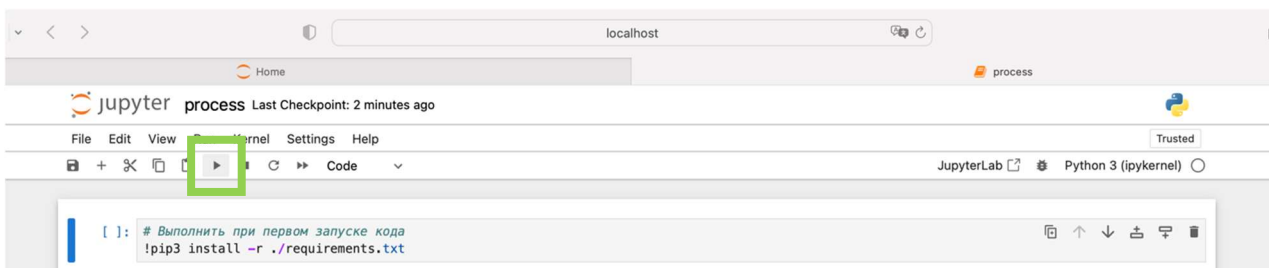
Инструкция по установке

Содержание

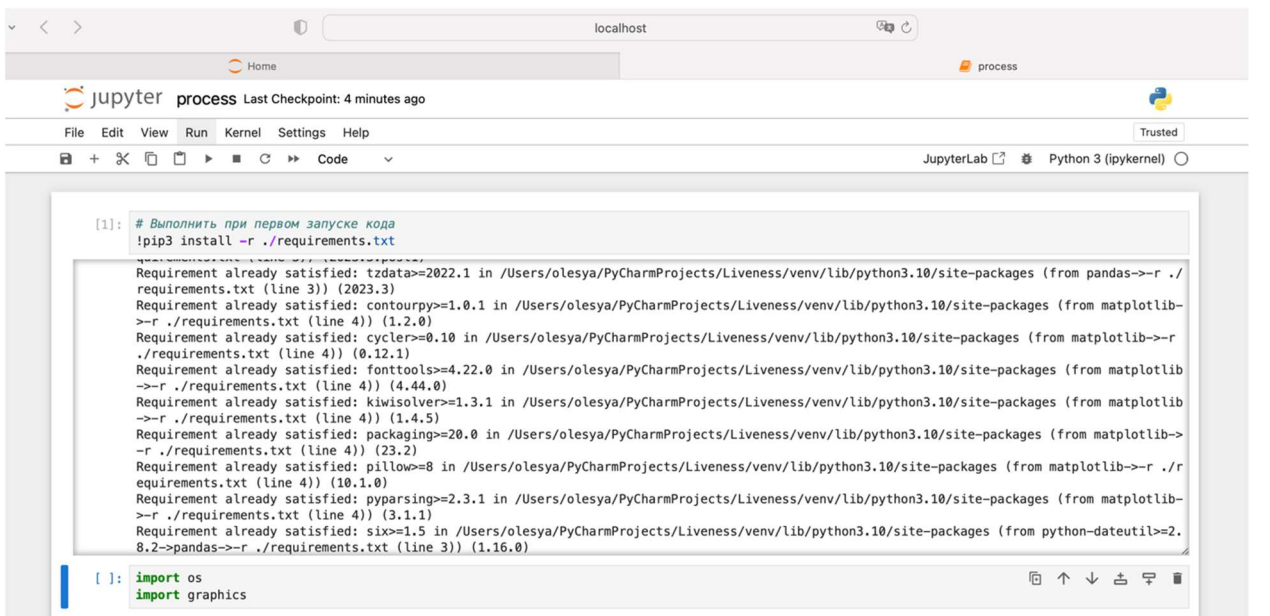
1. Минимальные системные требования.....	3
2. Установка	3
2.1. Состав дистрибутива.....	3
2.2. Порядок установки и первоначальной настройки.....	3



4. Если запуск программы осуществляется впервые, запустите ячейку [1] однократным нажатием кнопки **Run**;



5. Дождитесь выполнения ячейки [1];



6. Для дальнейшего удобства эксплуатации программы рекомендуется закомментировать строку с кодом, добавив в начале строки знак **#**

localhost

Home process

Jupyter process Last Checkpoint: 5 minutes ago

File Edit View Run Kernel Settings Help Trusted

JupyterLab Python 3 (ipykernel)

```
[1]: # Выполнить при первом запуске кода
# !pip install -r ./requirements.txt

Requirement already satisfied: tzdata>=2022.1 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from pandas->-r ./requirements.txt (line 3)) (2023.3)
Requirement already satisfied: contourpy>=1.0.1 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (1.2.0)
Requirement already satisfied: cyclor>=0.10 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (0.12.1)
Requirement already satisfied: fonttools>=4.22.0 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (4.44.0)
Requirement already satisfied: kiwisolver>=1.3.1 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (1.4.5)
Requirement already satisfied: packaging>=20.0 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (23.2)
Requirement already satisfied: pillow>=8 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (10.1.0)
Requirement already satisfied: pyparsing>=2.3.1 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from matplotlib->-r ./requirements.txt (line 4)) (3.1.1)
Requirement already satisfied: six>=1.5 in /Users/olesya/PyCharmProjects/Liveness/venv/lib/python3.10/site-packages (from python-dateutil->2.8.2->pandas->-r ./requirements.txt (line 3)) (1.16.0)
```