



Project Presentation: Project AOPSE

AI-Driven OSINT People Search Engine





Outline

1. Idea
2. Concepts and Paradigms
3. Software and Technology Used
4. Challenges During Development
5. Plans for the Future
6. Live Demo
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Idea

- enhance user privacy and online security
- utilizing
 - Open Source Intelligence (OSINT)
 - automated tools
 - databases of leaked information
- identify vulnerabilities and potential risks for users
- mitigate risks and vulnerabilities by giving advice using AI



Concepts and Paradigms

- **OSINT**

- intelligence produced by analyzing publicly available information
- using automated tools

- **Stateless**

- not saving user data or requests
- ensuring high level of confidentiality
- minimising the risk of data breaches

- **Living off the Land**

- working solely with data provided by user
- avoiding the risk of compromising other individuals and data or encouraging searches for unrelated individuals

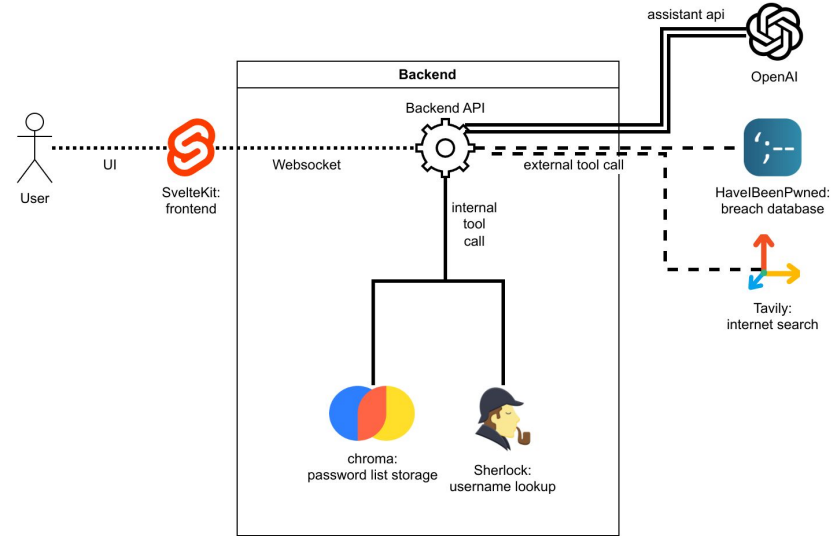
- **Running Locally and Open-Source**

- project has been made open-source
- can be run locally on any machine



Software and Technology Used

- Custom Frontend
 - SvelteKit
 - Skeleton Library
 - Websockets
- AI Model
 - OpenAI GPT-3.5 Turbo or newer
- Backend and Custom APIs
 - Python
 - FastAPI





Challenges During Development

- **Building a Custom Frontend**
 - no library met requirements
 - had to build custom frontend
 - utilising websockets for communication to backend
- **Integrating Specific Tools**
 - had rewrite source code
 - strip functionality to make faster
- **Information Sources and APIs**
 - problem getting enough information and access to sources
 - had to build custom APIs for local tools
- **Giving User a Score**
 - score to grade privacy
 - too many unknowns
 - weighing of issues



Plans for the Future

- Custom model, not relying on OpenAI
- Improve performance
- Rewrite in better language, .e.g. Rust
- Implementing more tools and sources



Live Demo



Questions