WorkflUX: The Workflow User eXperience

An open-source, cloud-ready web application for simplified deployment of CWL workflows

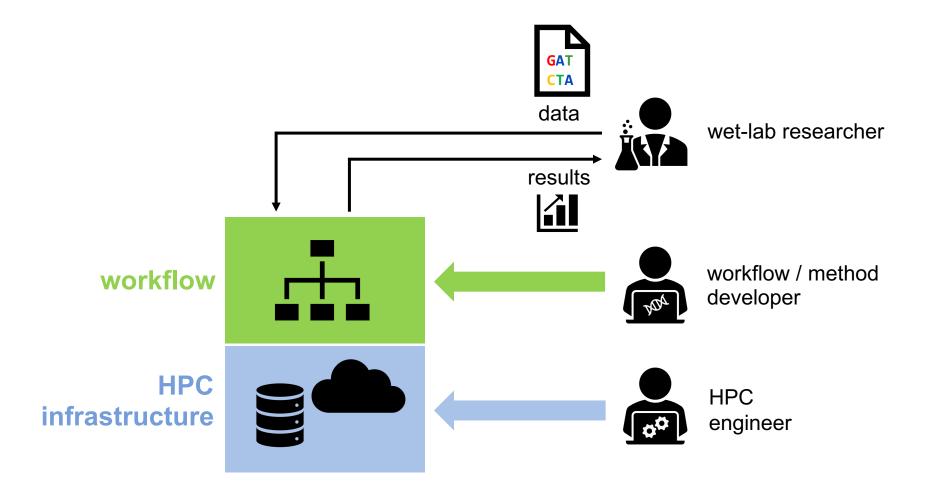
Dr. Mei-Ju (May) Chen, Clarissa Feuerstein-Akgöz, and Dr. Pavlo Lutsik

The Division of Cancer Epigenomics
German Cancer Research Center

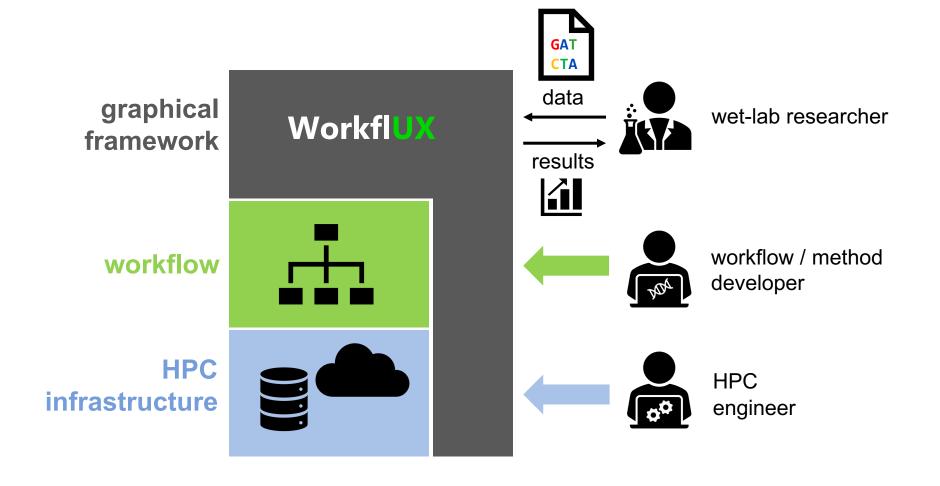
Main developer: Kersten Breuer



Principle Roles in Workflow Development and Deployment



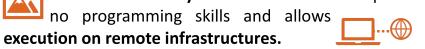
Principle Roles in Workflow Development and Deployment

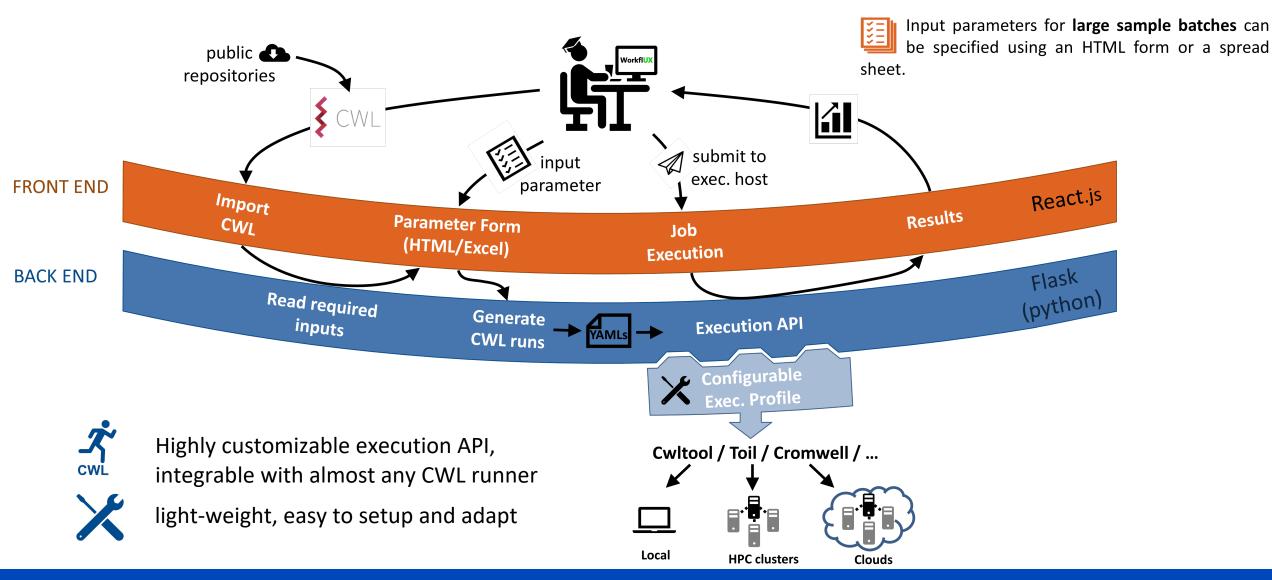




WorkflUX - An Outline

user-friendly web interface requires no programming skills and allows







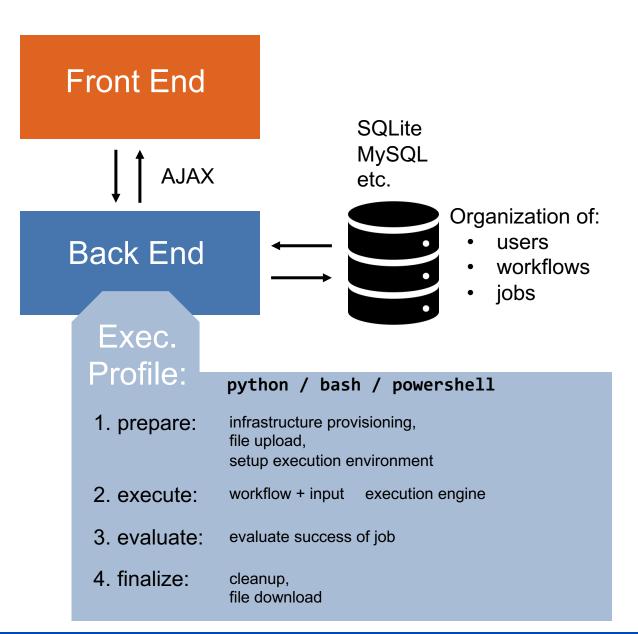
WorkflUX – Technical Detail



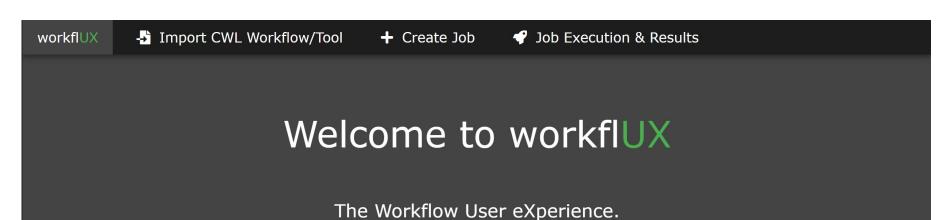
single page web app



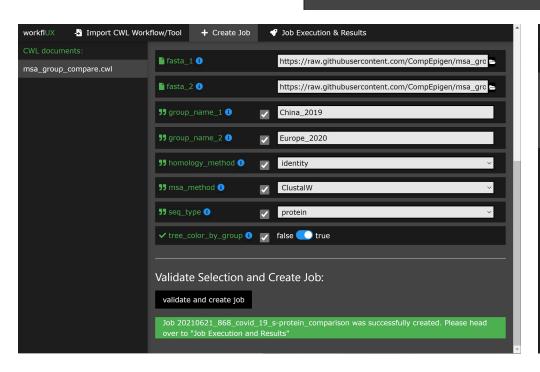
python-based, scalable with Gunicorn

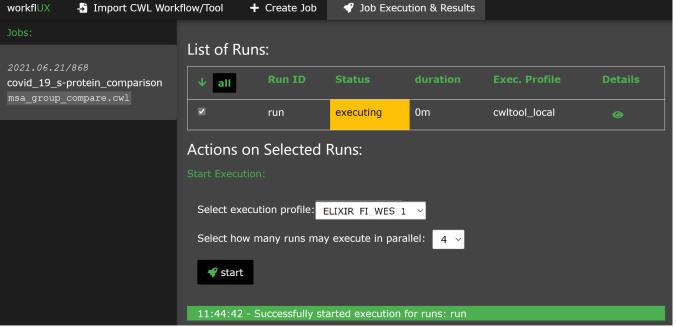






How does it look?







Target Audience and Usage Scenarios

Interdisciplinary Research Groups:

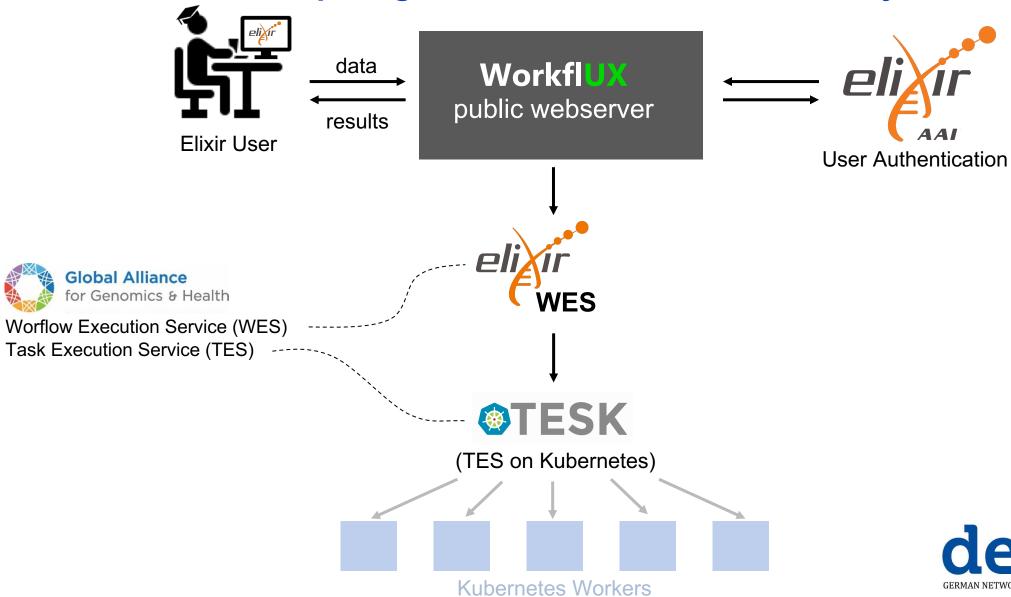
- used locally as desktop application (Linux, Windows, MacOs)
- HPC in protected networks:
 - Servers
 - Clusters
 - Clouds
- minimal setup required
- integration of GA4GH WES standard

Organizational Scale:

- multi-user, multi-project management
- execution on publicly available infrastructure
- collaborative work on protected data



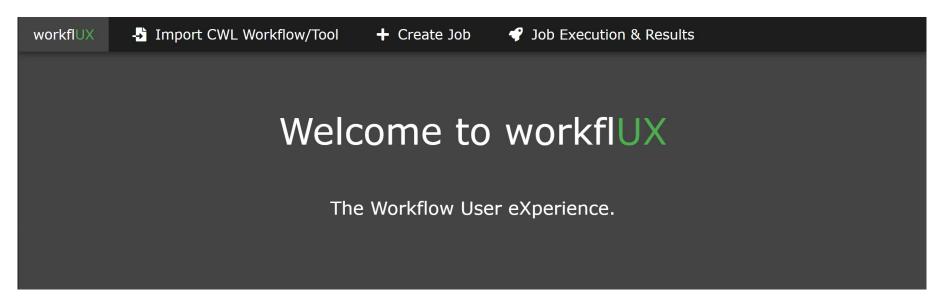
Participating in the Elixir Cloud and AAI Project







Please try it out



https://github.com/CompEpigen/WorkflUX

Open source - Apache 2.0 License

Easy to install: python3 -m pip install workflux

Feedback and contribution is welcome.



Thanks to our Contributors



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Marius Diekmann



The entire Elixir Cloud and AAI Team for their current and future work.



