



PHYLOViZ Web Platform

A Modular and Web-Based Tool for Phylogenetic Analysis

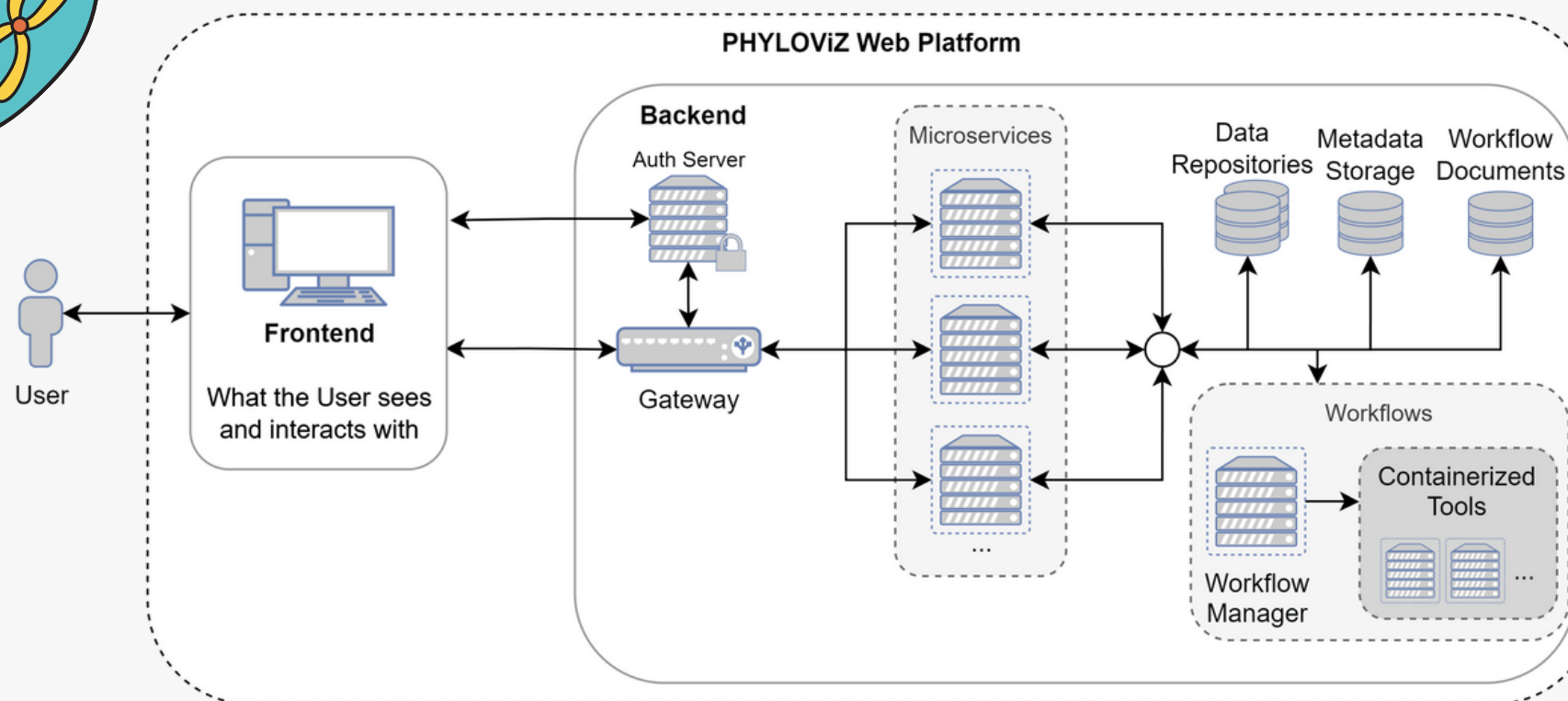
Motivation

Modern biomedical research has seen a remarkable increase in the production and computational analysis of large datasets, leading to an urgent need of tools for data integration, data processing and visualization.

Solution

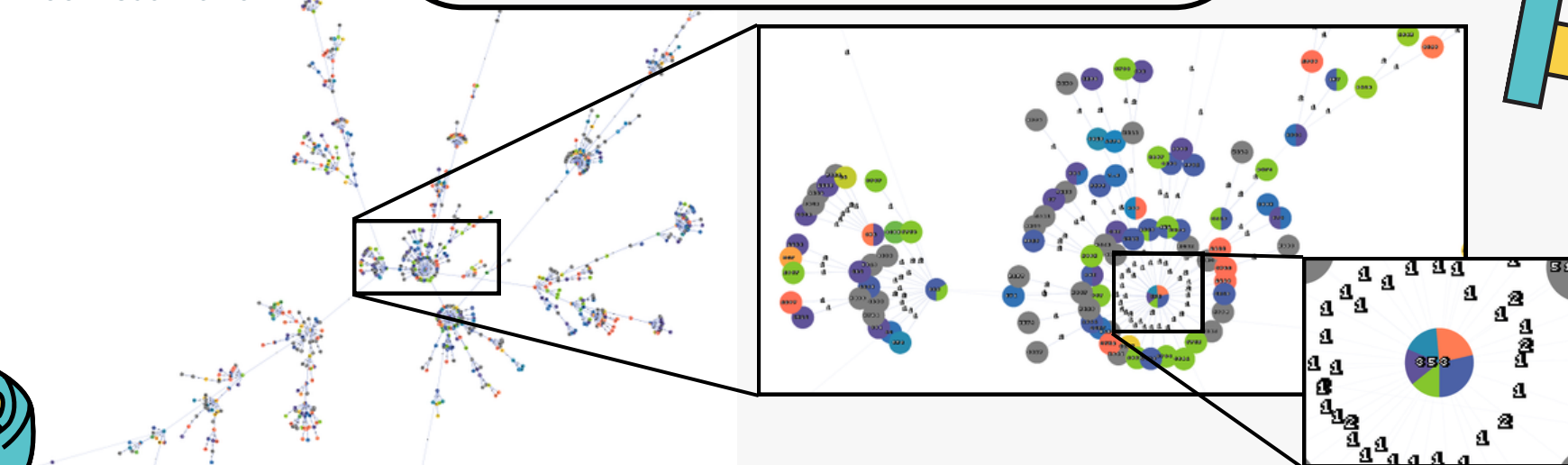
PHYLOViZ Web Platform is a web platform that allows users to access and perform phylogenetic analyses from anywhere with an internet connection, without requiring installation of software or access to HPC resources. It's modular, making it maintainable and extensible. Supports large scale analyses by relying on a workflow system that enables the distribution of parallel computations on cloud and HPC environments.

Architecture



Results

Tree Visualization



Authors:

- André Jesus, A48280@alunos.isel.pt
- André Páscoa, A48089@alunos.isel.pt
- Nyckollas Brandão, A48287@alunos.isel.pt

Supervisors:

- Cátia Vaz, ISEL, cvaz@cc.isel.ipl.pt
- Alexandre P. Francisco, IST, aplf@tecnico.pt