Training with Coding

Platform infrastructure for algo sandboxing, training with coding and project dissemination

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Overview of Coding Sessions - I

- One of the three layers of the FIN-TECH knowledge exchange programme consists of 6 coding sessions which will aim at sharing the proposed risk management models by means of a hands-on approach.
- The purpose of the coding sessions is to allow participants to experiment and test the proposed fintech risk management tools by means of an open source reproducible implementation.
- Another purpose is to follow up the content of the training sessions with a practical and reproducible implementation.
- Build a unified standardised fintech risk management platform across all European countries to introduce common standards
- Coding sessions for algo sandboxing and and support of the trainings

Overview of Coding Sessions - III

MILESTONE	DESCRIPTION	DAY (MUST BE COMPLETED BY)	DURATION OF TRAINING	Partner
...				
M26	Conclusion of coding session 1	**29 March 2019**	4 hours	**modeFinance**
...				
M28	Conclusion of coding session 2	**28 June 2019**	4 hours	**Firamis**
...				
M32	Conclusion of coding session 3	**4-6 September 2019**	4 hours	**ZHAW**
...				
M51	Conclusion of coding session 4	**26 February, 2020**	4 hours	**WU**
...				
M55	Conclusion of coding session 5	**19 June 2020**	4 hours	**UCM**
...				
M57	Conclusion of coding session 6	**4 September 2020**	4 hours	**Paris I**

Table 1: Schedule of the Coding Sessions

The Platform - a modular, growing approach

- Scalable, extendable, modular architecture
- Open-source-tools used for a base platform:
  - R Programming Language of statistics and data analytics
  - R Shiny
  - Docker
- The base platform is extended by an ensemble of other useful tools and open-source packages
- Examples are showcase-specific configurations of the environments for training with coding

Functionalities included in the coding lab

- Trainig sessions will allow users to hear and test possible solutions for automatized compliance and supervision
- Repository for coding session material (syllabus, scripts, datasets)
- Code interaction with notebooks
- Cloud server environment, located and hosted in Europe
- deployment infrastructure for versioning and reproducible research
- planned also as dissemination tool

Dissemination

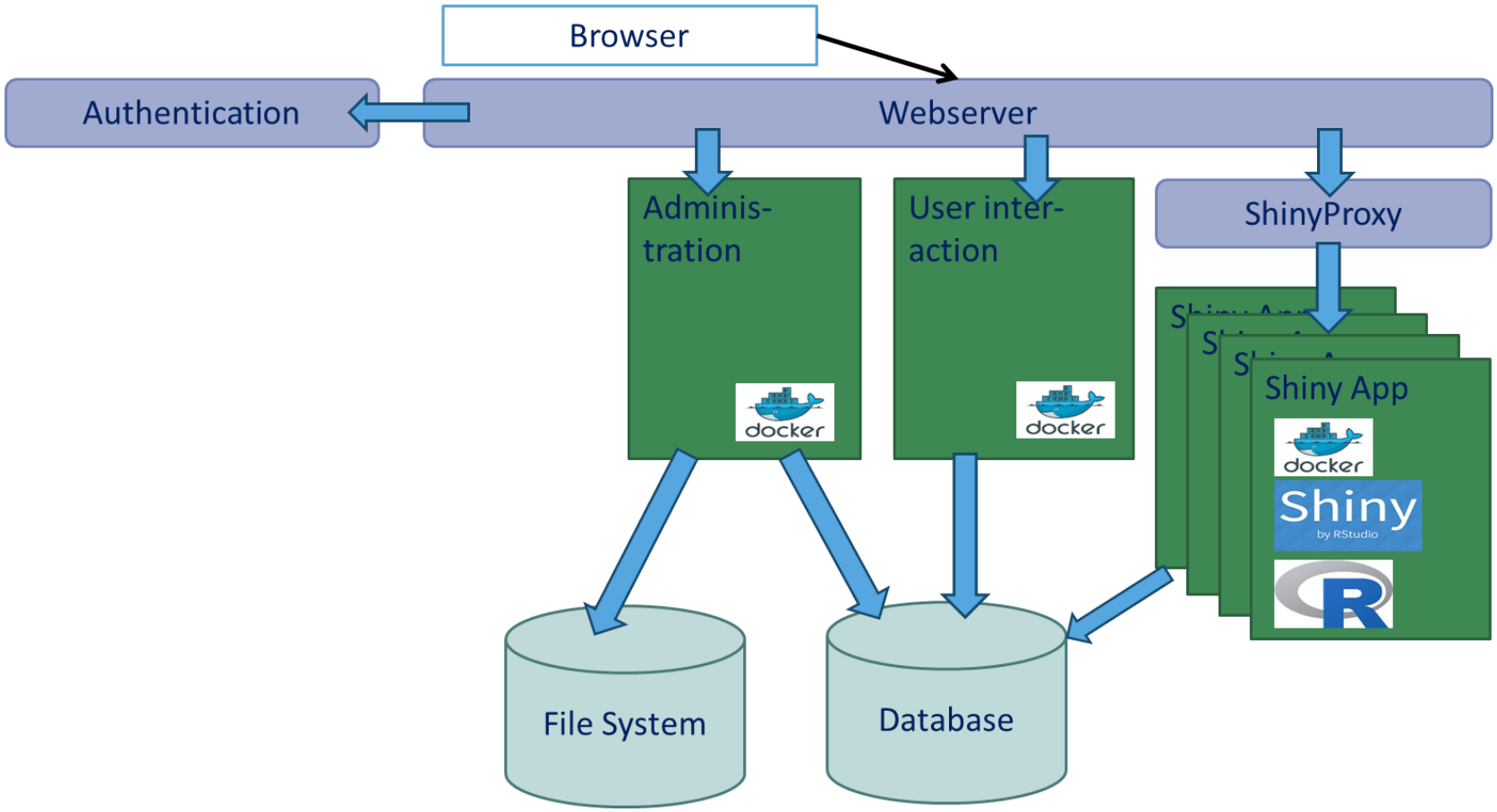
The software platform provides the technical infrastructure.
Objectives:

- Central landing page with public and project-internal content and services
- Communication, evaluation, organisation and document management repository
- Dissemination of the contents/material of work packages 1-6 including scientific papers/regulatory reports/white papers repositories, workshop presentations, training slides, code scripts and data for training, validation reports.

Functionalities included in the dissemination part of the infrastructure

- Upload and exchange of publications, slides, codes, testdata
- Download and feedback functionality
- Publishing process
- External communication channels: web site and social media
- Event participation repository
- Feedback repository
- Evaluation lab
- Communication channels
- Participation repository
- Event managing support

Base Platform Architecture



Let's See It!