Setup of the ProCAKE Framework

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The ProCAKE Framework

ProCAKE = Process-Oriented Case-Based Knowledge Engine

- Generic framework for the realization of experience-based learning systems
- In development since 2005 (predecessor CAKE)
- Semantic modeling of case data
- Case-based reasoning with configurable similarity measures
- Generic adaptation framework
- Access to various deep learning frameworks
- Freely available under open-source license (GPLv3)

Requirements

• Required for working with ProCAKE:
  – Java 17 (https://openjdk.org/projects/jdk/17/)
  – Git (https://git-scm.com/)

• We recommend the use of IntelliJ IDEA (https://www.jetbrains.com/idea/)
  – Community Edition is freely available
  – Support in the wiki during setup

• Setup instructions can be found at
  https://procake.pages.gitlab.rlp.net/procake-wiki/setup/
ProCAKE Repositories

• ProCAKE framework: https://gitlab.rlp.net/procake/procake-framework
  – Source code
  – Generic domain-independent framework

• GUI project: https://gitlab.rlp.net/wi2/procake/procake-gui/
  – Provides graphical user interfaces for ProCAKE framework

• Application / demo project: https://gitlab.rlp.net/procake/procake-demos
  – Illustrates usage of the ProCAKE framework
  – Contains 4 sample domains
  – Extends ProCAKE framework and ProCAKE GUI project via Maven dependencies
Setup of Demo Project

• Check out the ProCAKE demo project from
  https://gitlab.rlp.net/procake/procake-demos
  – In IntelliJ IDEA select VCS | Checkout from Version Control | Git
  – Ensure, that project is imported as Maven project

• If desired, also check out ProCAKE framework project from
  https://gitlab.rlp.net/procake/procake-framework
  – Same procedure in IntelliJ IDEA
  – Add module via Project Structure | Modules | Import Module

• Enjoy working with ProCAKE!