

Plant Phenotyping Data Warehouse

1. Please design a relational database schema (e.g. as ER or UML diagram) to manage simple plant phenotyping experiments. Therefore you need to design a "Plant Genetic Resources" (entity ACCESSIONS), which should be describes with a unique accession number and a subset of three randomly selected attributes from the MCPD standard (<https://www.genesys-pgr.org/descriptorlists/0cd31350-234b-4ebf-80bc-fc65f14f7541>).

Every Accession can be used for field or greenhouse EXPERIMENTS, which are described by at least two different TRAITS (<https://www.google.com/search?q=plant+phenotypic+traits>)

2. Please Implement a preferably Java Application to
 - a. Set-up and connect to a local database (H2,mysql,postgres...)
 - b. Create the previously designed database model. Please ensure the referential integrity among the implemented tables in consideration of the beforehand modeled relationships
 - c. Store some example datasets
3. Please extend the application and integrate a simple REST endpoint with the verb "PUT" to create new Accessions and a "GET" verb to retrieve the data of all Experiments for a given Accession as JSON document
4. Please provide the source code in an accessible GIT Repository and add a short documentation, which shows the database schema and describes how to execute and test the application