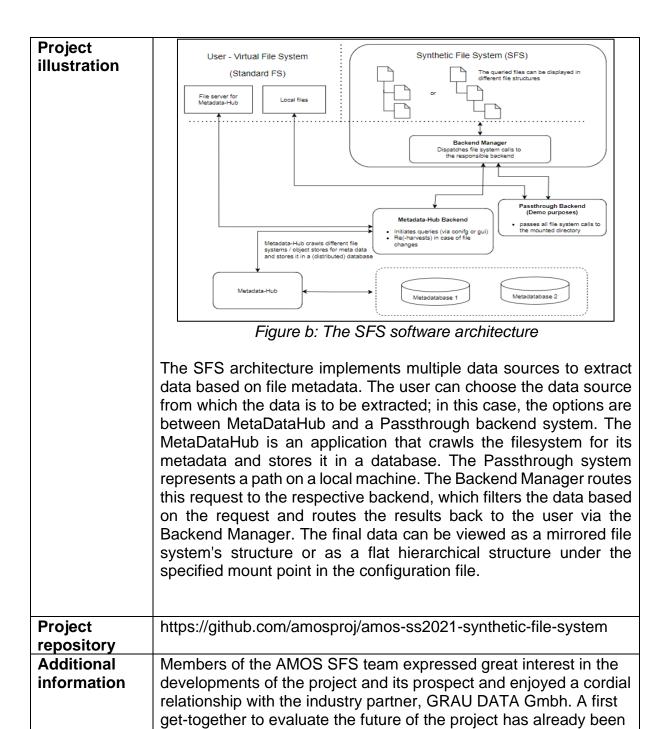
AMOS SS21 Project Synthetic File System Project Report

Project name	Synthetic File System
Project mission	Due to the current Corona pandemic, as much data as possible is to be analyzed and evaluated with the help of artificial intelligence (AI). This requires central intelligence to collect and interpret all accessible data distributed over several facilities. The key issue is that the data is organized and saved in different systems according to different storage types, structures, formats, and criteria. The task, or rather a mission, is to make the data obtainable or readable via a uniform mechanism within the project timeframe. This would have the benefit of not having to adapt each application to the different memory types. The synthetic file system is a so-called adapter for each type of memory so that a unified namespace can be formed from it.
Industry	GRAU DATA Gmbh
Team logo	Figure a: The SFS team logo
Project summary	The Synthetic File System (SFS) makes use of a Virtual File System (VFS) combined with File System in Userspace (FUSE), which provides a unified view of data at a file system level from multiple data sources such as MetaDataHub and a Passthrough system. The files can also be filtered based on their metadata and consecutively viewed either as a mirror image of the original directory structure or a flat hierarchy.



planned.