**Writing a Script to Remove Old Files from the Production Server**

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**Abstract**

As an active participant in the advanced DeepTracer research program conducted by Data Analysis and Intelligent Systems (DAIS) research group, my capstone project mainly focused on developing an efficient script for clearing outdated files from the production server to efficiently use limited available file storage.

For the script development task, my first step was to completely understand the DeepTracer production server. Using Linux skills and knowledge gained from CSS courses, I carefully explored the directory and file structure of the DAIS 8 production server. By understanding the server's layout, I successfully identified outdated files and determined the relevant time span for their removal. Building on this foundation, I devoted considerable effort to creating, rigorously testing, and ultimately automating a Python script designed explicitly for efficiently deleting obsolete files within the specified directory. Additionally, in pursuit of the script task, I undertook the local installation of DeepTracer's frontend and backend repositories on my computer to further assist the file identification and removal process, despite encountering some challenges during the setup process. This endeavor was a valuable learning experience, as it allowed me to acquire practical skills in handling virtual environments, npm, pip installations, running the Angular client, and using MongoDB.

I believe my contributions to the DeepTracer research and script development tasks have expanded my knowledge in structural biology, software engineering, and AI and added valuable input to the DAIS research group's progress. Moving forward, I am excited about further refining these contributions and delving deeper into the frontiers of innovative research.