

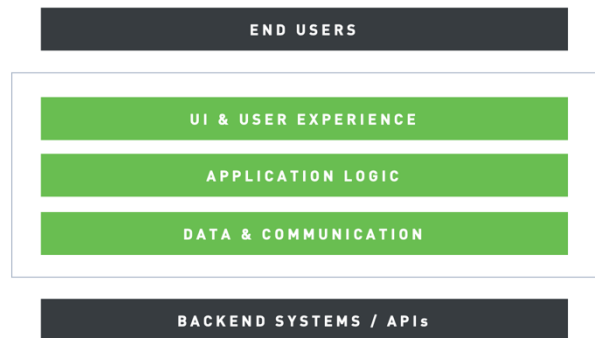
Thesis Project – Cloud Filesystem Connector in JavaScript

Build a connector between XIOS/3 and the filesystem on a cloud storage such as Amazon Web Services or Microsoft Azure.

The XIOS/3 Application Server

XIOS/3 have developed an application server capable of running inside web browsers, allowing powerful web apps to be built using markup, and then run locally in the browser without any plug-ins.

The XIOS/3 application server is responsible for generating user interfaces, visualizing application data, and respond to user inputs. These inputs triggers events in the logic layer that modifies remotely stored documents through a transaction engine. To access and store the documents a cloud service specific communication module is used.



Project Goal

The goal of the project is to survey the current feature set of the larger cloud services, including what data models they support, what operations can be applied on the data model, and what the surrounding mechanics looks like for access and manipulation such as roles, rights, and API capabilities. From that we would like the thesis to answer what a comprehensive data model and set of operations would look like that can encompass all of the different cloud services.

The thesis should answer, if possible, the difference between this data model and the one currently used in XIOS/3, and implement a demonstration module in JavaScript that can communicate with an external Cloud Service.

Extent & Qualifications

We are looking for 1 to 2 students, 30hp /each, with backgrounds in web development, familiar with JavaScript and other web technologies. The work will be done from home or the XIOS/3 office in Linköping.

About XIOS/3

XIOS/3 is a Swedish company, based in Linköping, founded with the intention to revolutionize how open source is used in web development. The XIOS/3 technology enables developers to maximize the value of web open source, facilitating unparalleled development speed, improved user experience and reduced development costs for web applications.

The technology was developed by the team behind iCloud, before iCloud was acquired by Apple. XIOS/3 was founded in 2018 and is now in its commercialization phase, with over 100-man years invested in R&D and 18 approved and issued US patents. We envision XIOS/3 as the core in every web application built in the future and we want you to help us getting closer to fulfill this vision.

Application

Please contact CEO Karl Hyltberg at karl.hyltberg@xios3.com with your application or additional questions. Admissions are ongoing, however other thesis projects might be available by request.