

## Your online computer

– Your friends, files and digital life on any device

Xcerion delivers the CloudMe.com consumer service (with over 500 000 users world-wide from 170 countries). The CloudMe online computer (formerly known as iCloud) is the cloud computer for consumers, an online media and file server for streaming and sharing. It enables ubiquitous computing reaching out with connectivity to all kinds of devices.



*With the CloudMe ubiquitous Cloud Convergence platform all devices can be connected.*

## API – Thesis Description

The CloudMe service have many different clients; A virtual desktop, iPhone app, Android app, Easy Upload that installs on Windows, Mac and Linux and WebDAV. All these different clients use a set of public web services API's exposed as a Service Oriented Architecture (SOA). These back-end server API's of CloudMe (currently over 100 state-less XML Web Service / REST API's) would greatly benefit from being open and public to our huge user base, enabling our users and 3<sup>rd</sup> party app developers to leverage our cloud computing infrastructure, storage, messaging capabilities and clients.

The main objective of this thesis is to identify the 60 most important methods, to use our internal documentation and publish information about them on our public developer Wiki and to create working example code snippets using AJAX (with the help of the jQuery library), Java classes and Objective-C (iOS / iPhone) for common functionality. Examples of common functionality are to create a file, upload a file, download a file, rename a file, delete a file, perform a directory listing etc. All code snippets should use library/class functionality built to be reuse able for developers, abstracting the most common tasks of using our API. Ideally these libraries should work with similar syntax across AJAX, Java and Objective-C.

With a public API a lot of the core functionality of CloudMe might be reused in a variety of contexts, from mobile apps to online real-time gaming solutions needing a central synchronization engine.

All documentation will be done in English and applicant must be fluent in English writing. The application must be very structured, good at object orientation and know programming.

All work will be done from the Xcerion main office at Drottninggatan 23, Linköping.

## Additional Thesis Work

Xcerion might have more thesis work if students are interested.

## Contact

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