

# Symplified #1 – REST web services

## Client

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## Company Background

Symplified is venture-funded company located in Boulder. Over the last four years we have grown from a fledgling startup with less than 10 employees into the market share leader in cloud identity with more than 1 million users and millions in revenue. Symplified's offerings center around Identity and Access Management - basically authenticating an internet user and determining what resources they should have access to. More information is available at <http://www.symplified.com>.

Last year we had a team work with us on Integrated Windows Authentication - an integration of a authentication protocol with our system. Their project has become an integral part of our product, used daily by literally millions of customers with great success. Additionally, a member of that team is now a permanent employee in a Junior Developer Role, working in completely new areas of our product.

## Project Goals

Symplified has been creating REST web services to give API access to applications internals - for instance to configure a new customer administrator or delete an existing web server. We would like to offer our customers example client implementations of these web services in a variety of languages and platforms that they could use as a framework and extend. This would be a very interesting project for a team that would like to get a flavor of several different programming languages with a relatively easy application to develop in each.

In each language we will want to:

- Demonstrate creation, retrieval, update, and delete of entities from the web services. Each language will have its own way of speaking to a web service, but the calls themselves will be identical across languages.
- Create an authentication header that the web service will use to authorize the action.
- Implement a simple user interface to allow the creation of requests and display of results. For some languages this may be command line, others may lend themselves to a richer display.

The proposed set of languages and platforms is Java, .Net, Ruby, and PHP.

## **Project Skills**

- Basic programming knowledge.
- Experience in some of the target languages would be helpful, but part of the fun will be working with new tools.