

# Symplified #1 – OAuth protocol

## Client

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## Company Background

Symplified is a 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 an 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

OAuth is an internet protocol that is used to authorize access to protected resources without requiring the sharing of credentials across systems. In the last few years it has been adopted by Google, Microsoft, Facebook, and Twitter, as well as countless other organizations. Symplified would like to extend our application to provide identity and authorization information via the OAuth protocol.

Specifically we need to:

- Extend the set of Symplified's existing "Identity Providers" with a new "OAuth provider" type. This will mean determining the data necessary for configuration and managing its storage and retrieval. Work here will include extending an existing Java web service API to handle the new data, working with Hibernate and a MySQL database for data storage, and working with our UI team to properly display the new information.
- Implement the OAuth protocol to generate identity and authorization information via tokens. We have many examples of Identity Providers that implement a variety of other protocols and you'll work closely with experts in the field.

## Project Skills

- Basic programming knowledge.
- Java experience useful but not necessary.

