

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Beta Presentation

## Secure Application Layer API Proxy

### The Capstone Experience

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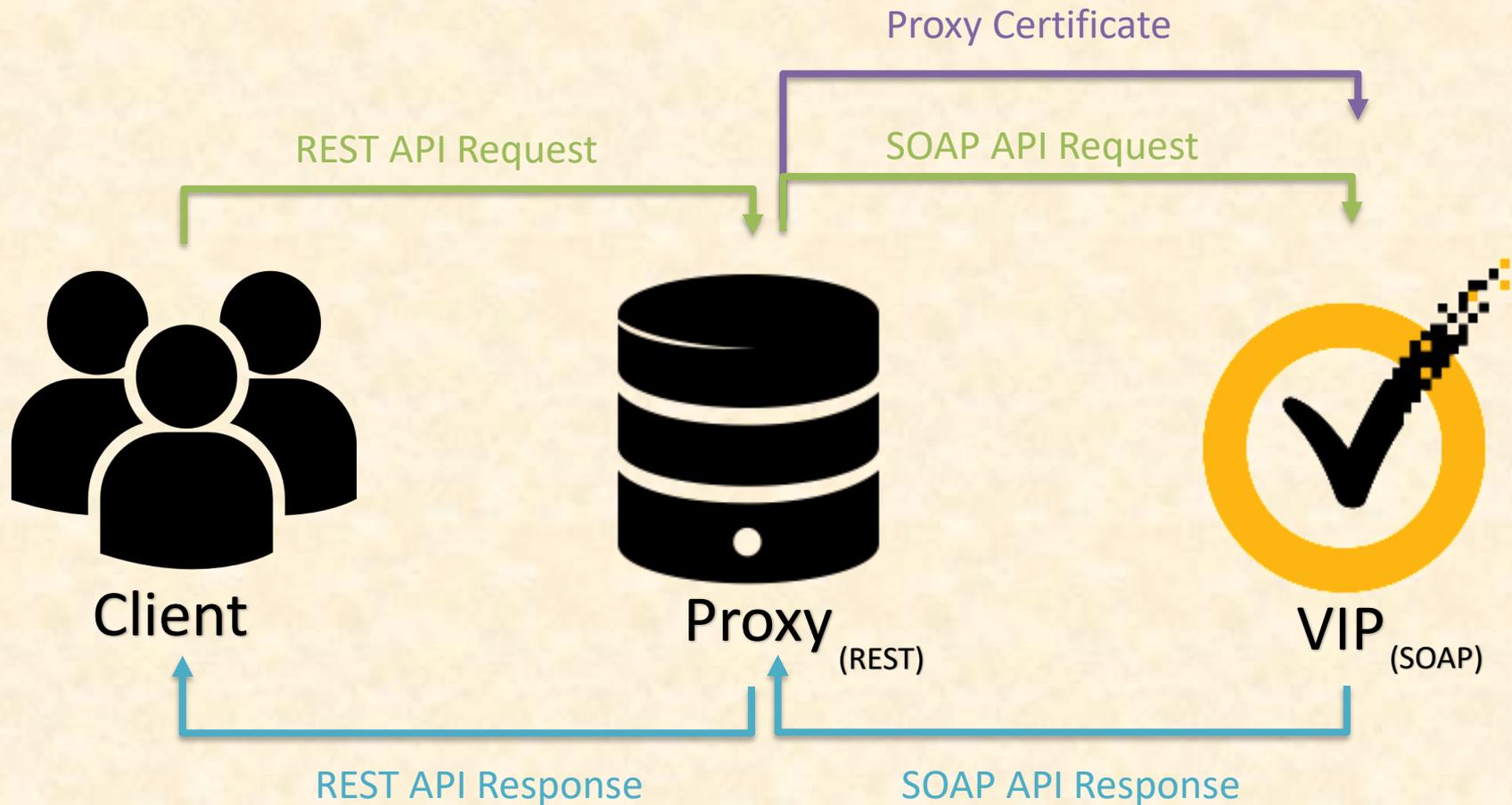
*From Students...  
...to Professionals*

# Project Overview

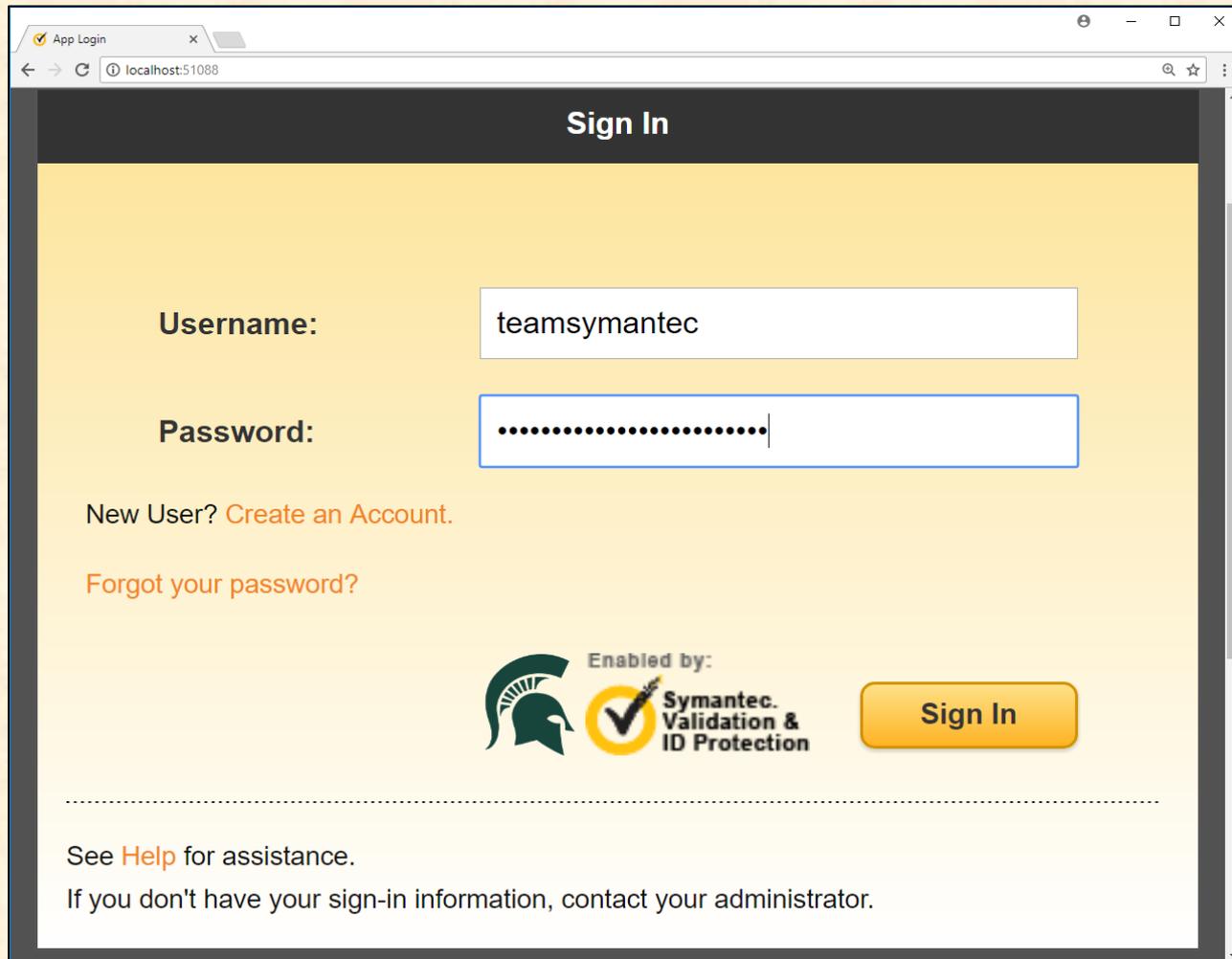
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- Translation
  - Translate requests from REST to SOAP
  - Translate responses from SOAP to REST
- Authentication
  - Signed JSON Web Tokens
  - VIP Certificates
- Testing

# System Architecture



# Login Screen



App Login x

localhost:51088

## Sign In

Username:

Password:

New User? [Create an Account.](#)

[Forgot your password?](#)

Enabled by:



**Sign In**

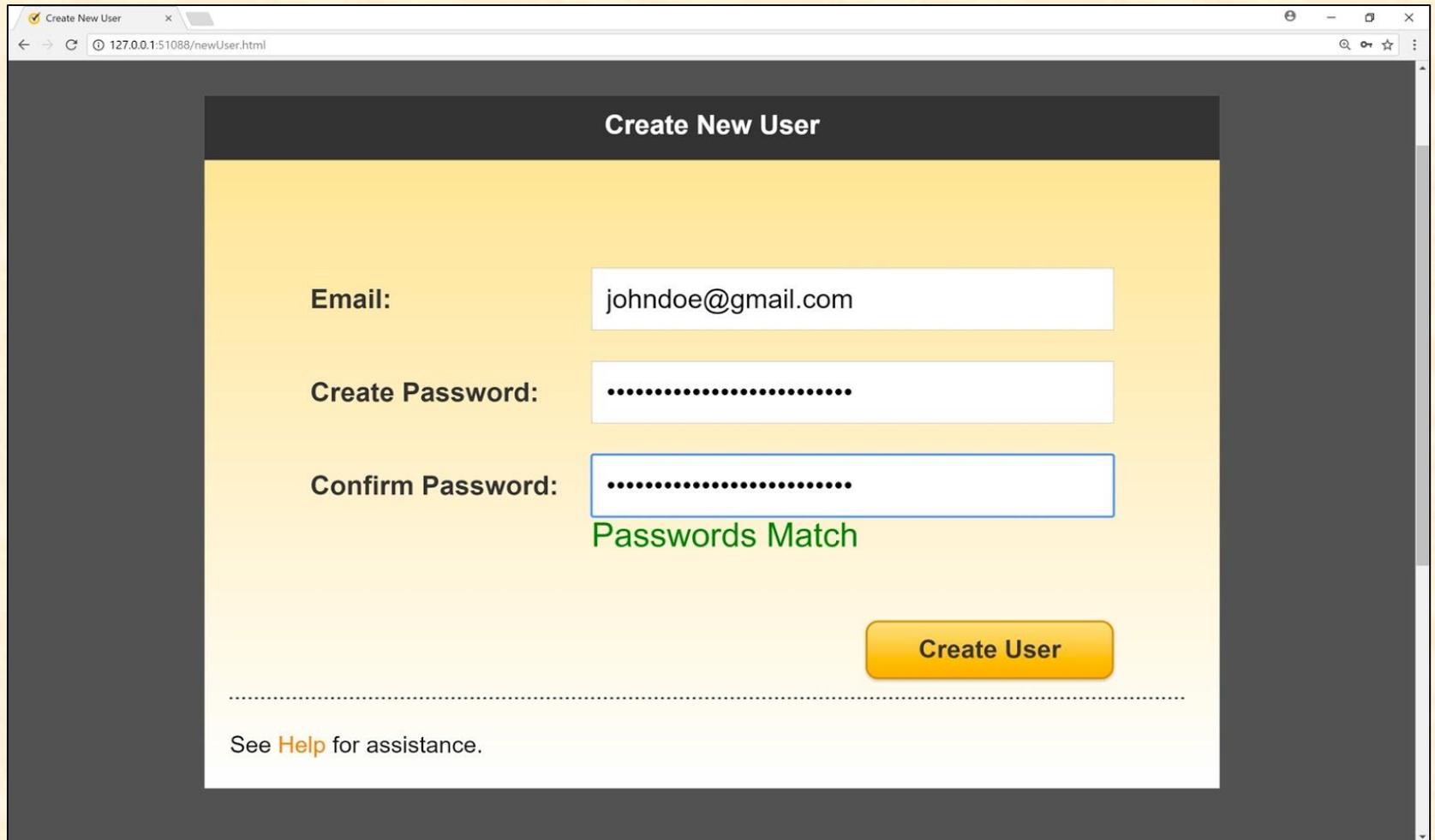
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See [Help](#) for assistance.

If you don't have your sign-in information, contact your administrator.



# Create New User



Create New User

Email: johndoe@gmail.com

Create Password: .....

Confirm Password: .....

Passwords Match

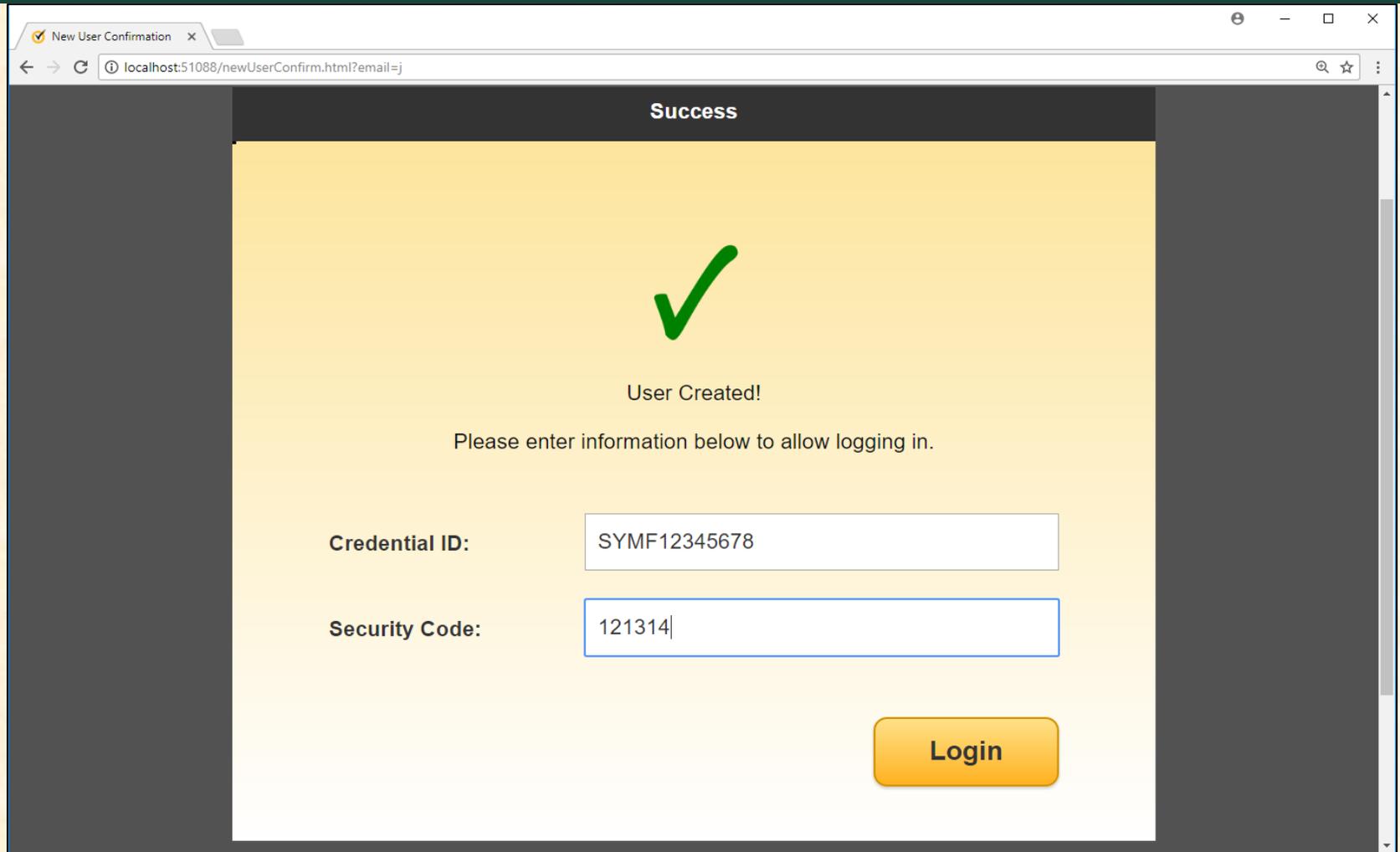
Create User

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See [Help](#) for assistance.



# Add Credentials Page



New User Confirmation

localhost:51088/newUserConfirm.html?email=j

## Success



User Created!

Please enter information below to allow logging in.

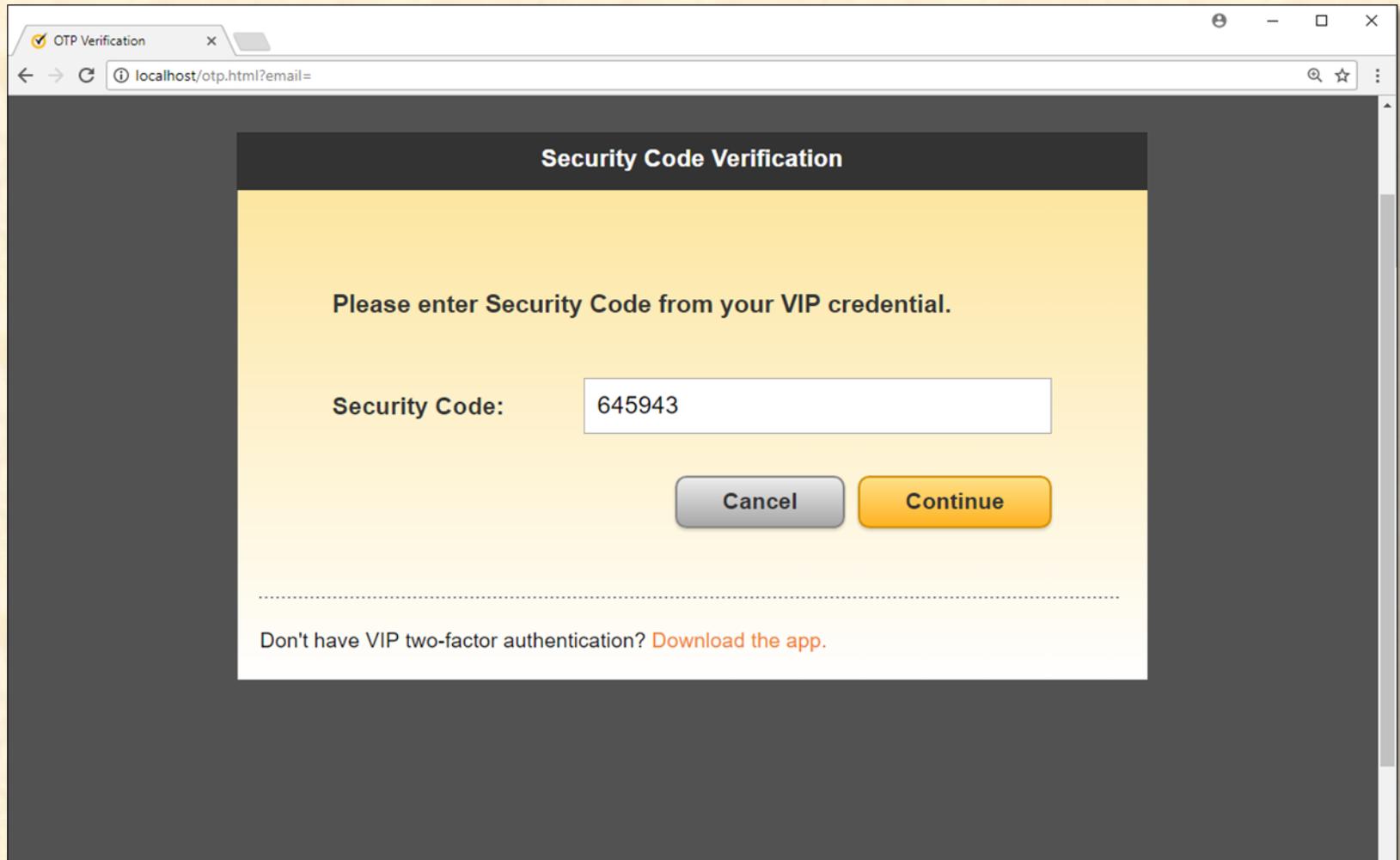
Credential ID:

Security Code:

Login



# Entering One Time Password (OTP)



Security Code Verification

Please enter Security Code from your VIP credential.

Security Code:

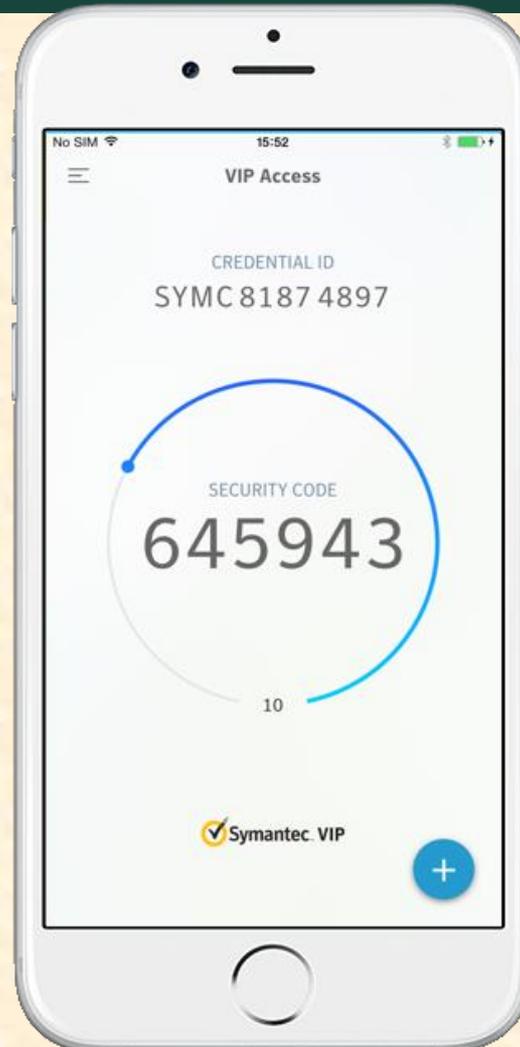
[Cancel](#) [Continue](#)

---

Don't have VIP two-factor authentication? [Download the app.](#)



# Entering One Time Password (OTP)



# Translation Process

OTP Verification x

localhost/otp.html?

### Security Code Verification

Please enter Security Code from your VIP credential.

Security Code:

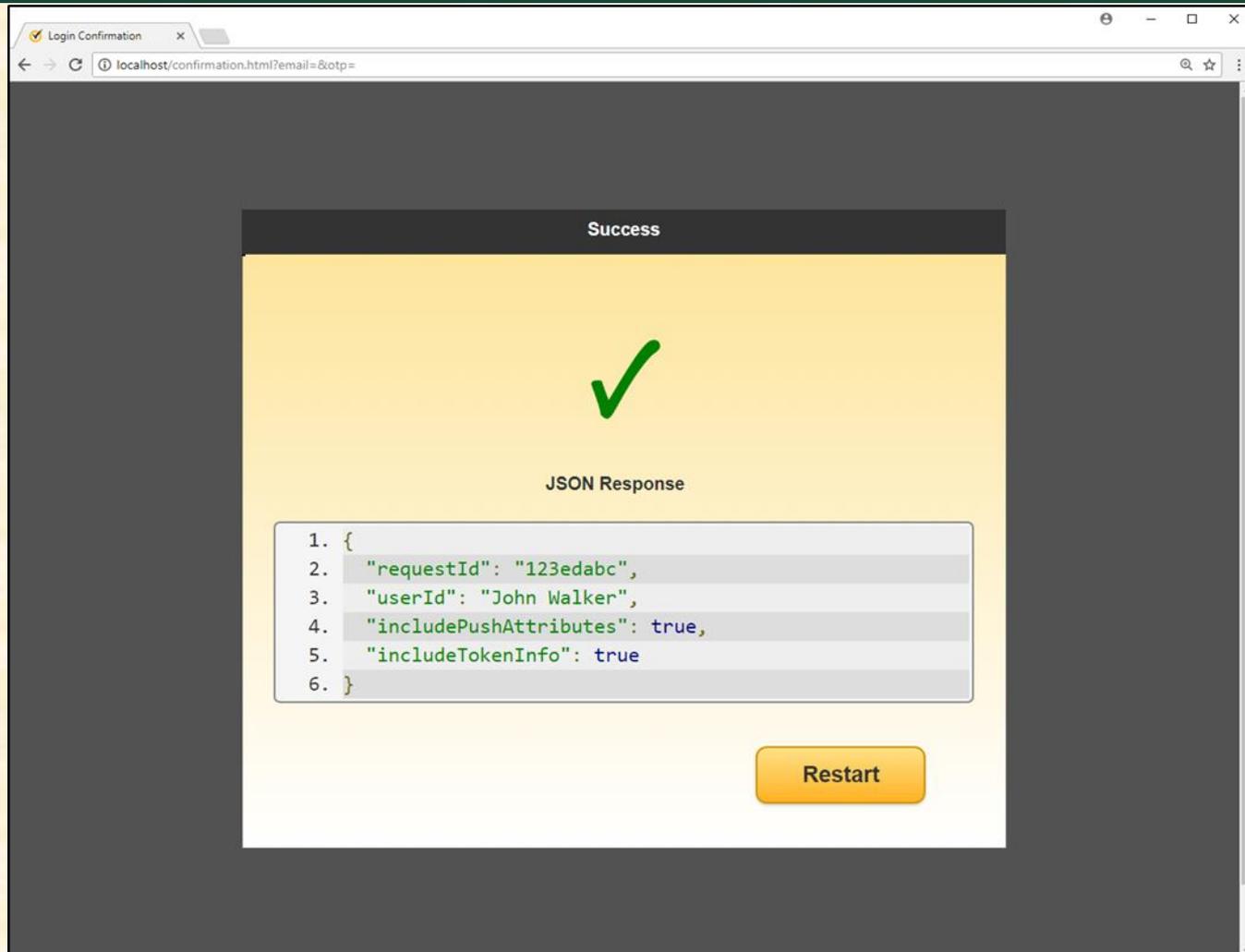
Cancel Continue

Don't have VIP two-factor authentication? [Download the app.](#)

Converting Response...



# Final JSON Body



The screenshot shows a web browser window with the title "Login Confirmation" and the URL "localhost/confirmation.html?email=&otp=". The main content area displays a "Success" message with a green checkmark. Below the checkmark, the text "JSON Response" is shown, followed by a code block containing the following JSON:

```
1. {  
2.   "requestId": "123edabc",  
3.   "userId": "John Walker",  
4.   "includePushAttributes": true,  
5.   "includeTokenInfo": true  
6. }
```

At the bottom right of the content area, there is a yellow "Restart" button.



# What's left to do?

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- API versioning
- Finish parsing status code responses
- Add final integration tests
- Finish up documentation
- Project video



# Questions?

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