TASS

the alpha school system

Connecting your school's community.



TASS API

MASTERCLASS

AGENDA

1) **API Program Overview**
2) Connecting to TASS using APIs
3) Building a Power BI Dashboard using TASS APIs
4) Special Reward for Successful Completion

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1) API Program Overview
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CONNECTING TO TASS USING APIs

1) Select your TASS API
2) Configure API Connection in TASS.web
3) Select a Method
4) Determine Parameters
5) Generate API call
6) Test API Call

STEP 1: SELECT YOUR TASS API

API (Application Programming Interface)

A secure way to exchange information with TASS.

STEP 1: SELECT YOUR TASS API

API (Application Programming Interface)

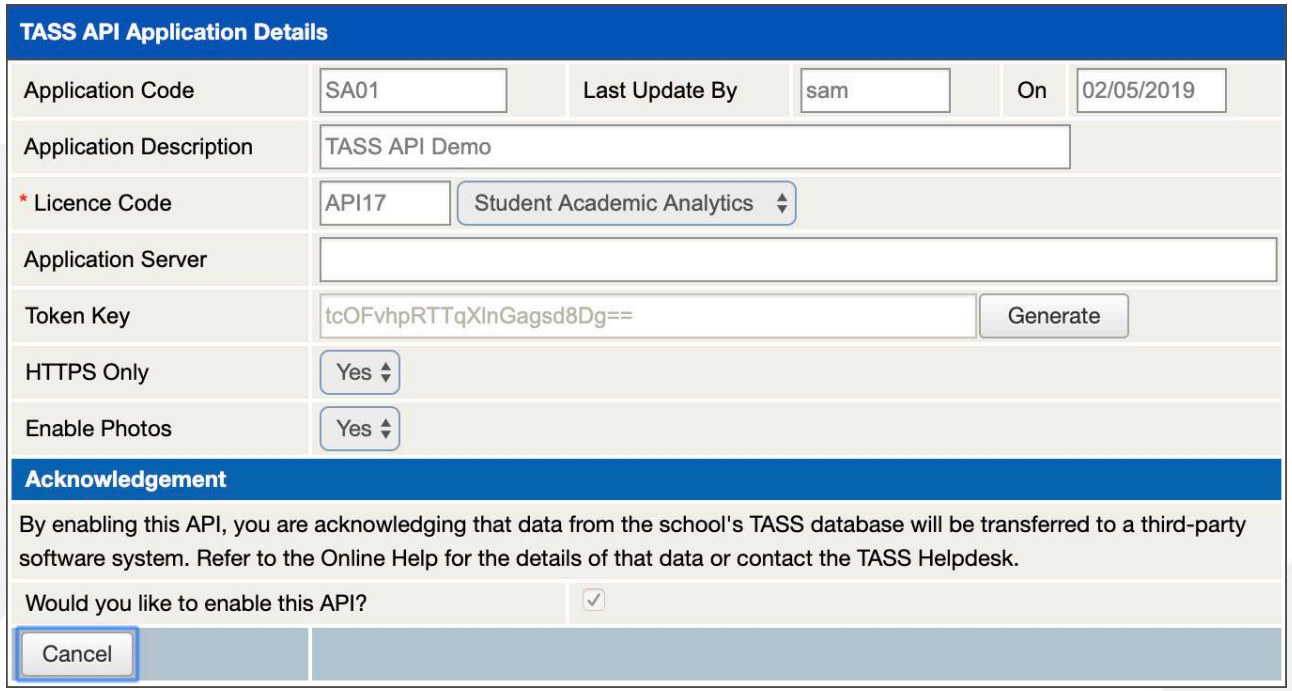
A secure way to exchange information with TASS.

TASS APIs on GitHub

https://github.com/TheAlphaSchoolSystemPTYLTD

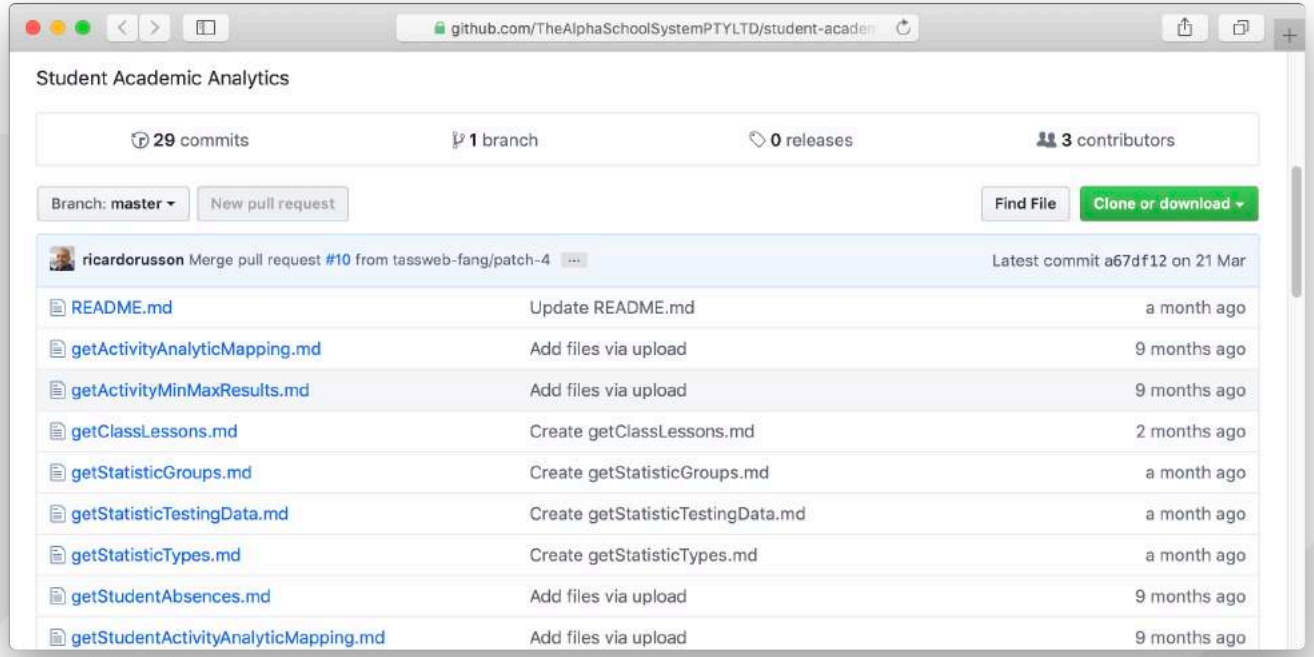
STEP 2: SET UP API CONNECTION

TASS.web > System Admin > Utilities > API Gateway Maintenance



STEP 3: SELECT A METHOD

Review the GitHub repository for your chosen API



STEP 4: DETERMINE PARAMETERS

Used to control what the method does, eg filter by student code or year level

Encoded as JSON

Some are required, others are optional

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Encoded as JSON

Some are required, others are optional

For example, to retrieve details on all students in year 9:

```
{ "studcode": "all",
  "yeargrp": "9" }
```

STEP 5: CONSTRUCT API CALL

Call URL Template:

```
https://{domain}/tassweb/api/?method={method}&appcode={appcode}&
company={companycode}&v=2&token={token}
```

STEP 5: CONSTRUCT API CALL

`https://{domain}/tassweb/api/?method={method}&appcode={appcode}&company={companycode}&v=2&token={token}`

`{domain}`

The domain of your school's TASS instance



STEP 5: CONSTRUCT API CALL

`https://{domain}/tassweb/api/?method={method}&appcode={appcode}&company={companycode}&v=2&token={token}`

`{method}`

The API method you selected earlier

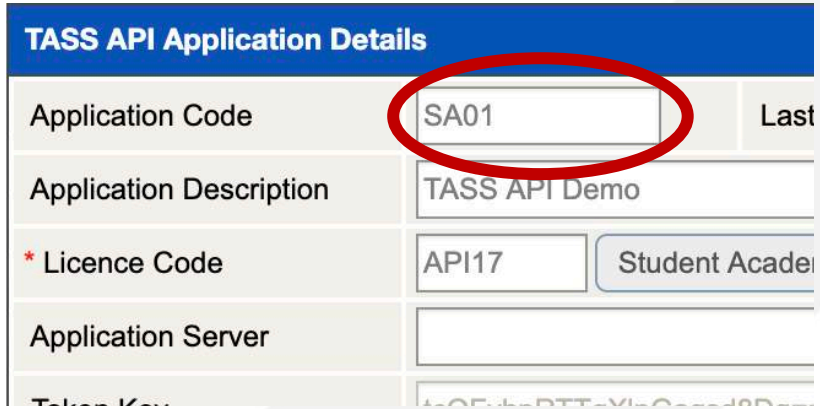
eg: getStudentAbsences

STEP 5: CONSTRUCT API CALL

`https://{domain}/tassweb/api/?method={method}&appcode={appcode}&company={companycode}&v=2&token={token}`

`{appcode}`

The Application Code that you registered in TASS.web eg: SA01

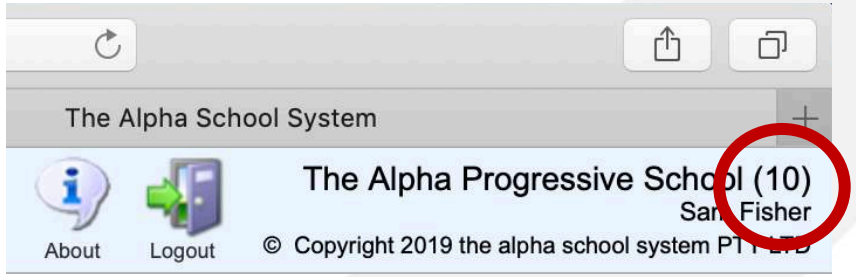


STEP 5: CONSTRUCT API CALL

`https://{domain}/tassweb/api/?method={method}&appcode={appcode}&company={companycode}&v=2&token={token}`

`{companycode}`

The code for the company you want the API to interact with eg: 10



STEP 5: CONSTRUCT API CALL

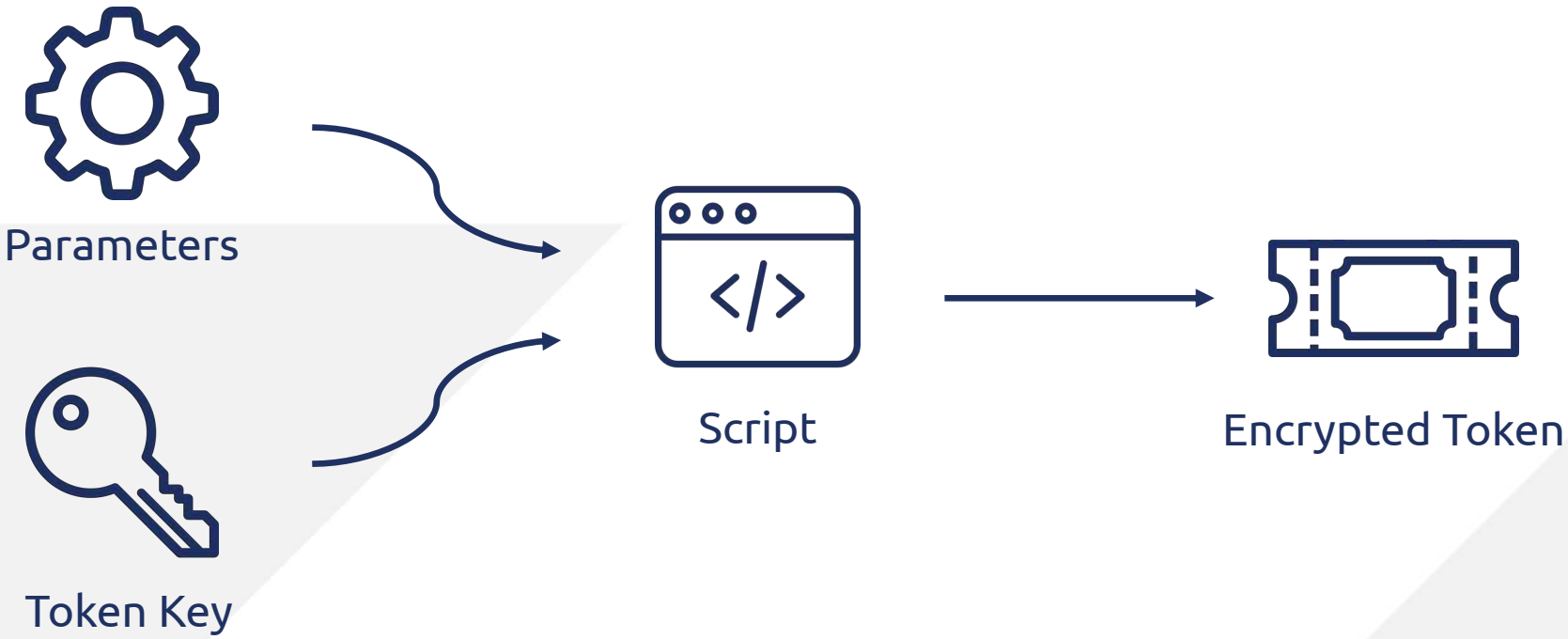
`https://{domain}/tassweb/api/?method={method}&appcode={appcode}&company={companycode}&v=2&token={token}`

`{token}`

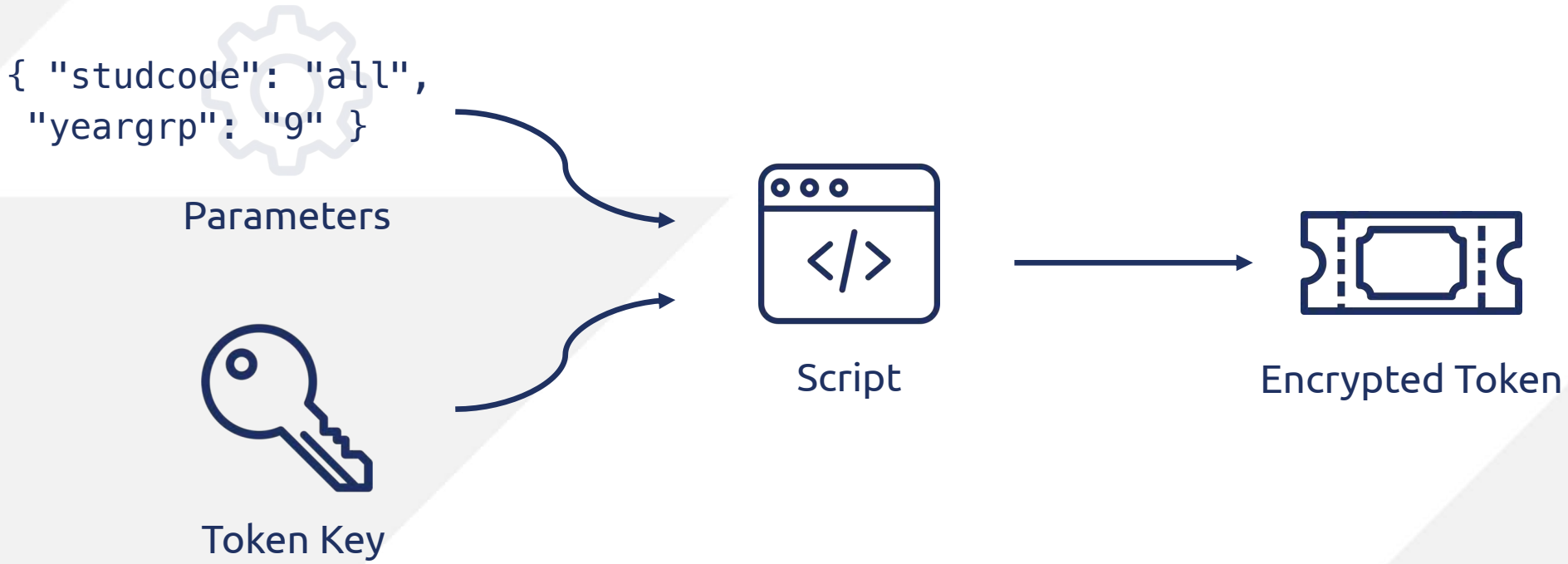
The parameters, encrypted using the token key generated in TASS.web

Scripting experience required, see GitHub

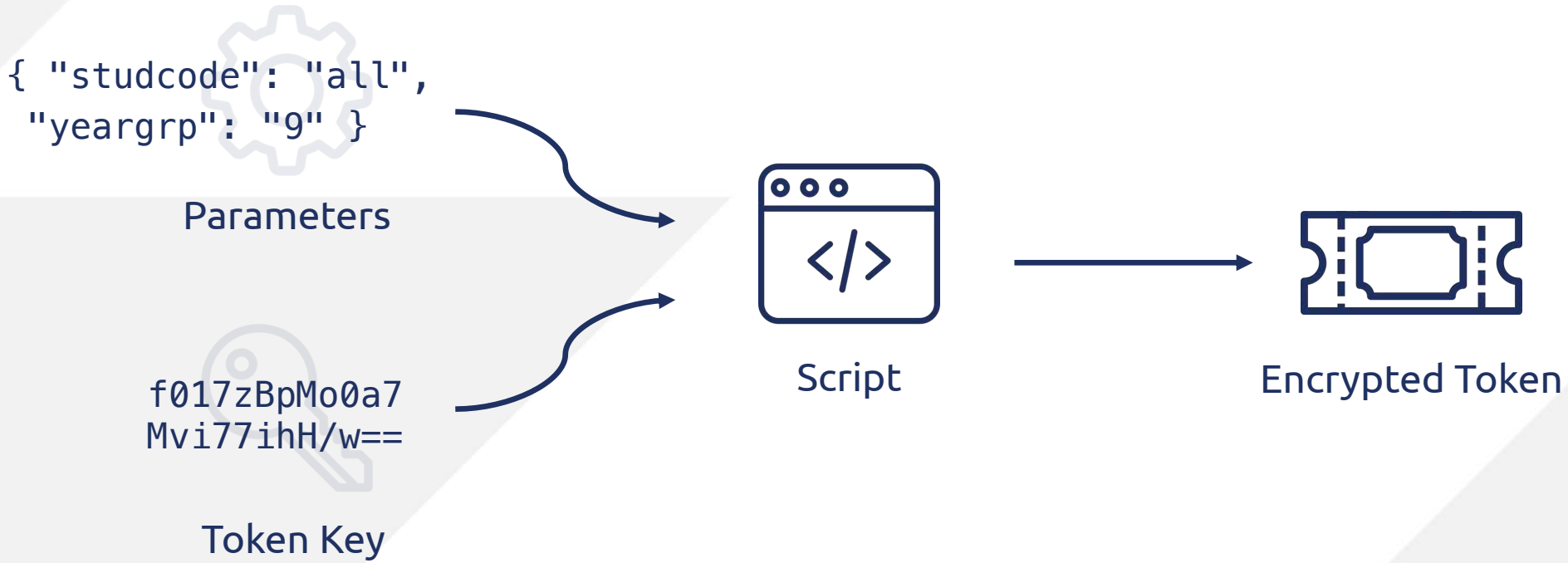
TOKEN ENCRYPTION



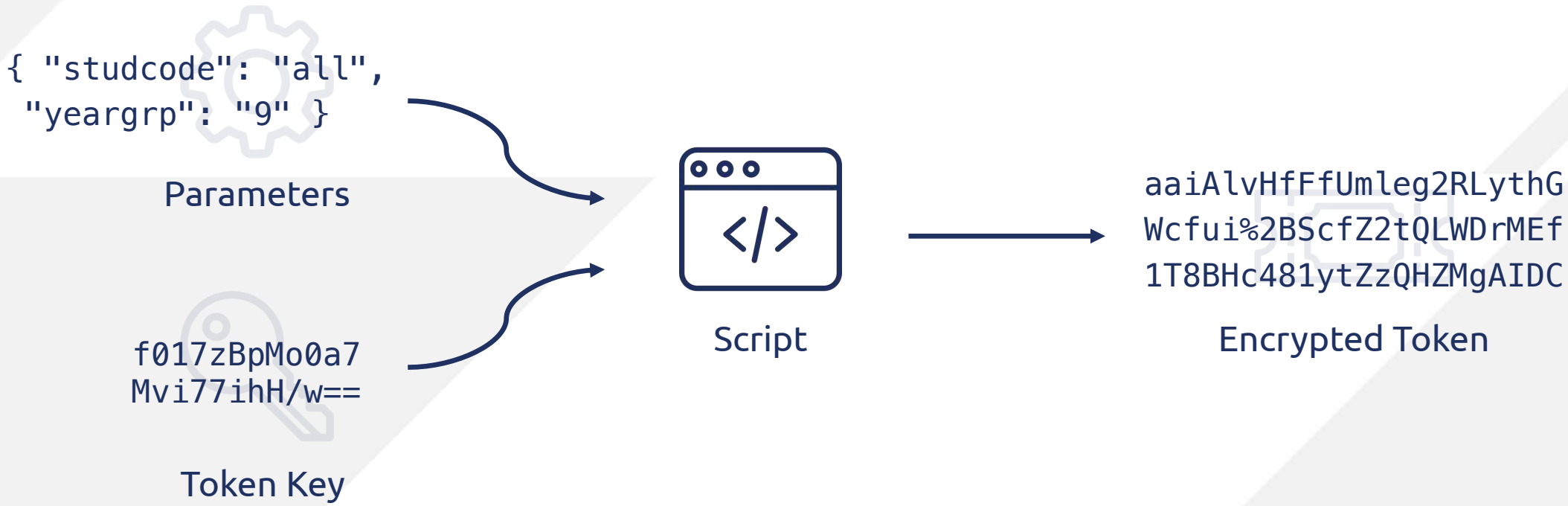
TOKEN ENCRYPTION



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STEP 5: CONSTRUCT API CALL

Call URL Template:

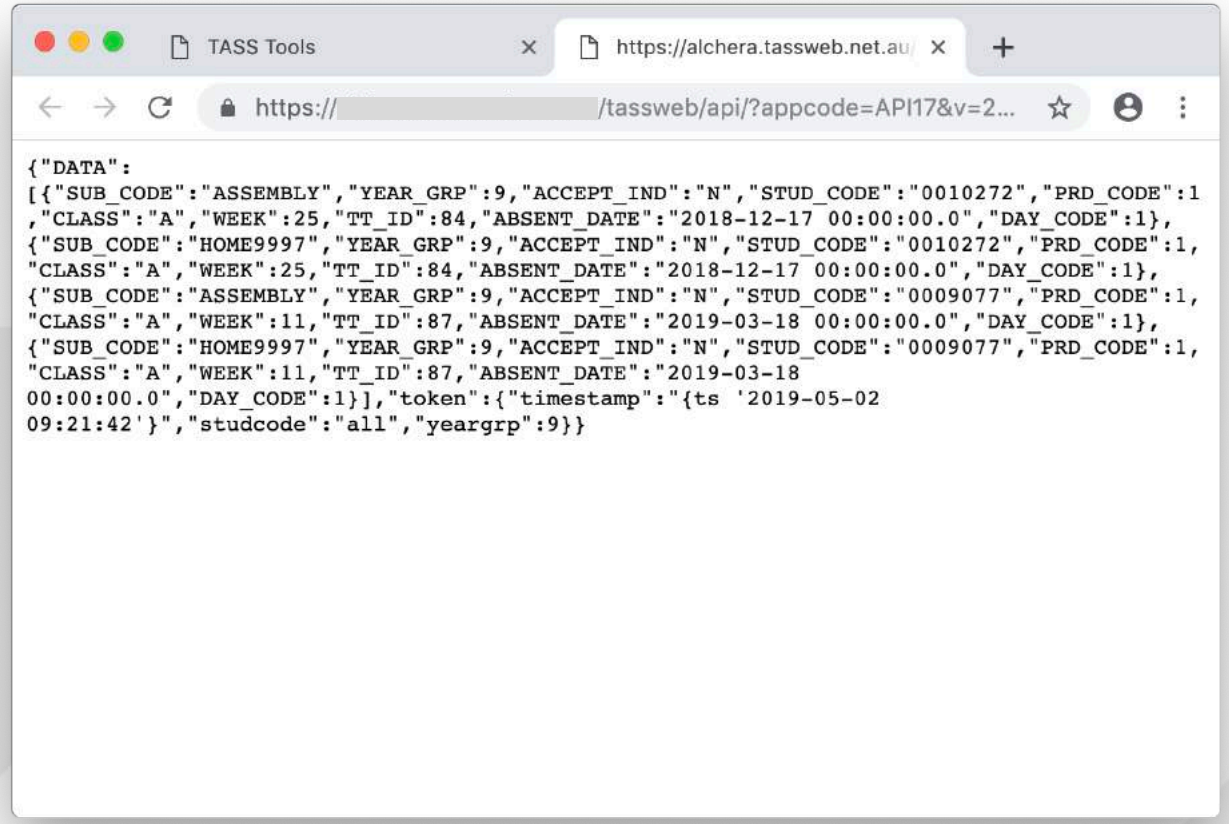
```
https://{domain}/tassweb/api/?method={method}&appcode={appcode}&
company={companycode}&v=2&token={token}
```

STEP 5: CONSTRUCT API CALL

Call URL:

https://demo.tassweb.net.au/tassweb/api/?appcode=SA01&v=2&method=getStudentAbsences&company=10&token=aaiAlvHfFfUmleg2RLythGWcfui%2BScfZ2tQLWDrMEf1T8BHc481ytZzQHZMgAIDC

STEP 6: USE THE API CALL



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BUILDING DASHBOARDS IN POWER BI

https://info.tassweb.com.au/api-masterclass

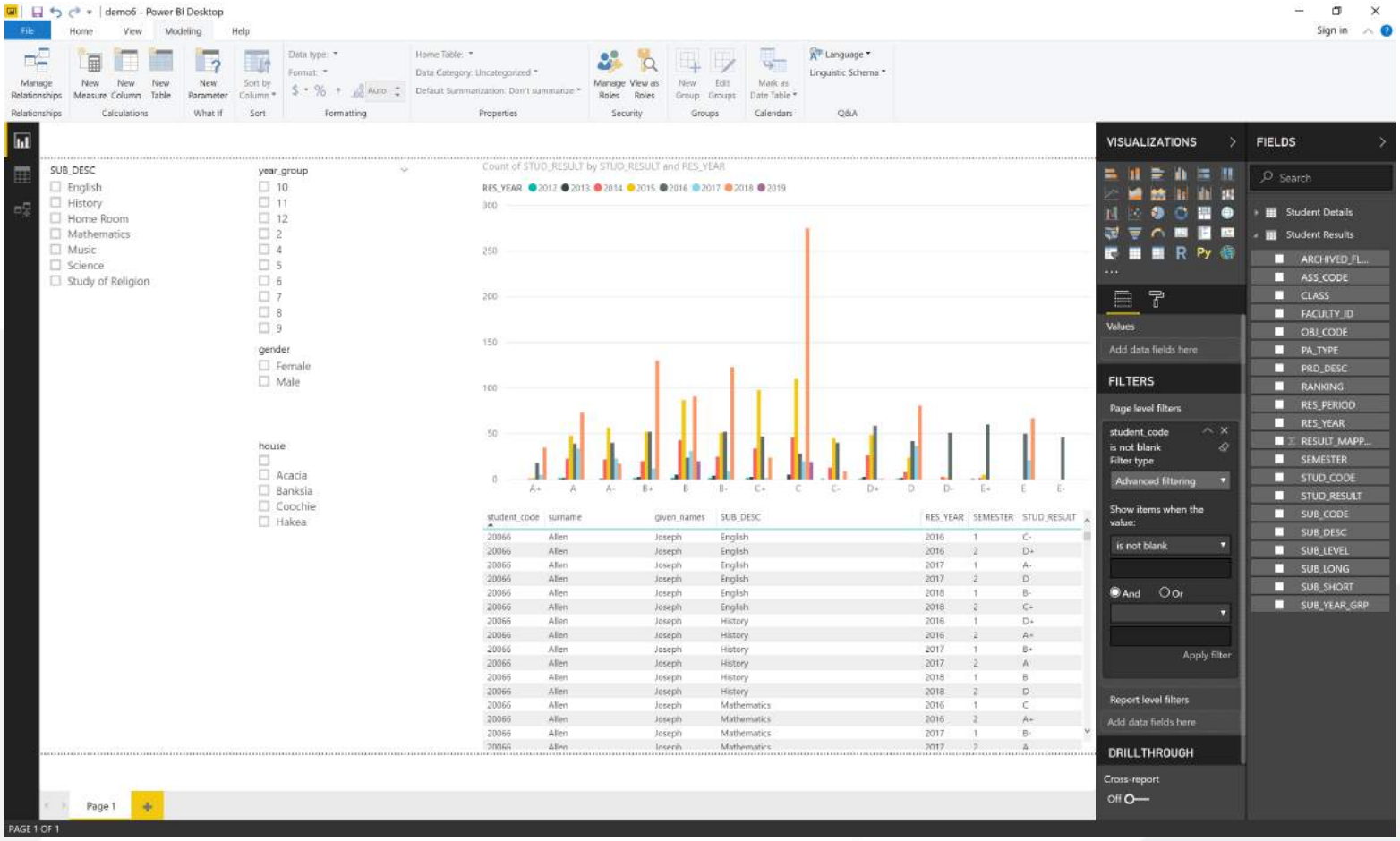
- This is an interactive session using Power BI on your device
- Download the data sources and install Power BI
- Refer to the handout if you get stuck

BUILDING DASHBOARDS IN POWER BI

1) Connect to two datasets:
   Student Details and Student Results
2) Establish Relationships
3) Create visualisations
4) Add filters to make dashboard interactive

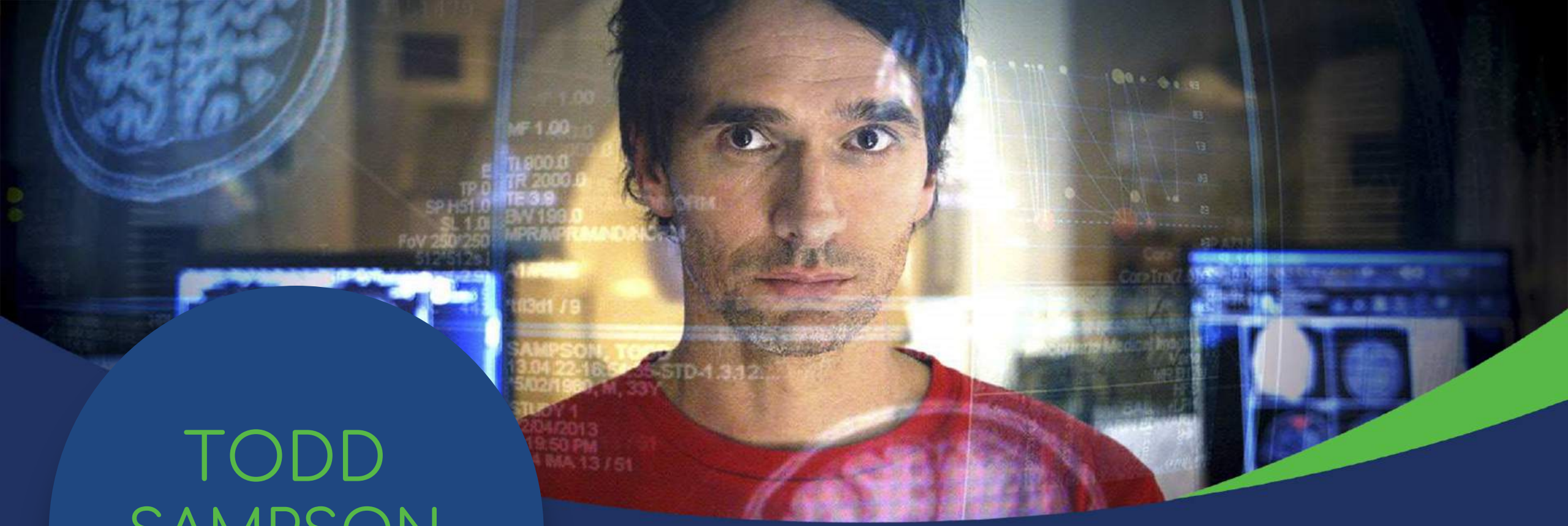
API MASTERCLASS

BUILDING DASHBOARDS IN POWER BI



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TODD SAMPSON

KEYNOTE SPEAKER

Redesign your brain with Todd Sampson – breakout star of *'Gruen Planet'*, previous CEO of Leo Burnett Australia, QANTAS board member, and one of the few people to have climbed Mt. Everest unguided.

15:15 – 16:15, Thursday 16th



the alpha school system