# CodeGenerator Service

This service generates unique, randomly generated alphanumeric strings.

## Configuration

Configuration file defines master credentials.

## APIs

/code/next

Generates next unique code

### Parameters

* masterId
* masterSecret
* base\_string

### Return

* A 64bit length random Id (No formatting, plain text)

### Steps

* Calculate SHA-256 of masterSecret as hashedMasterSecret
* Compare hashedMasterSecret and masterId with config.masterSecret and config.masterId
* If not match, return Error: Unauthorized
* Generate code string as:
  + Get first 4 character of base\_string
  + Calculate md5 of base\_string
  + code = base\_string.first4characters+”-”+md5.last8characters
* Return code as plain text with status code of 200