



# QueueableDuplicateSignature.Builder Class

Build a unique signature for your queueable job using this inner builder class. The `build()` method builds a `QueueableDuplicateSignature` object, with input from the `addId()`, `addInteger()`, and `addString()` methods. Use the `DuplicateSignature` property in the `AsyncOptions` class to set the queueable job signature. Enqueue your job by using the `System.enqueueJob()` with the `AsyncOptions` parameter.

## Namespace

System

## Examples

This example builds the async job signature with `UserId` and the string `MyQueueable`.

```
AsyncOptions options = new AsyncOptions();
options.DuplicateSignature = new System.QueueableDuplicateSignature.Builder()
    .addId(UserInfo.getUserId())
    .addString('MyQueueable')
    .build();

try {
    System.enqueueJob(new MyQueueable(), options);
} catch (DuplicateMessageException ex) {
    //Exception is thrown if there is already an enqueued job with the same sig
    Assert.areEqual('Attempt to enqueue job with duplicate queueable signature',
        ex.getMessage());
}
```

This example builds the async job signature using `ApexClass Id` and the hash value of an

```
AsyncOptions options = new AsyncOptions();
options.DuplicateSignature = new QueueableDuplicateSignature.Builder()
    .addInteger(System.hashCode(someAccount))
    .addId([SELECT Id FROM ApexClass
           WHERE Name='MyQueueable'].Id)
    .build();

System.enqueueJob(new MyQueueable(), options);
```

- [QueueableDuplicateSignature.Builder Methods](#)

### See Also

- [Apex Developer Guide: Detecting Duplicate Queueable Jobs](#)

## QueueableDuplicateSignature.Builder Methods

The following are methods for `QueueableDuplicateSignature.Builder`.



Adds an integer to build a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.

- **`addString(inputString)`**  
Adds a string to build a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.
- **`build()`**  
Builds a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.
- **`getMaxSize()`**  
Gets the maximum size of the queueable job signature in bytes.
- **`getRemainingSize()`**  
Gets the remaining size of the queueable job signature in bytes, after subtracting the size already used by the signature from the maximum allowed number.
- **`getSize()`**  
Gets the size of the queueable job signature in bytes.

## `addId(inputId)`

Adds an ID to build a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.

### Signature

```
public System.QueueableDuplicateSignature.Builder addId(Id id)
```

### Parameters

#### *inputId*

Type: [Id](#)

### Return Value

Type: [QueueableDuplicateSignature.Builder](#)

## `addInteger(inputInteger)`

Adds an integer to build a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.

### Signature

```
public System.QueueableDuplicateSignature.Builder addInteger(Integer i)
```

### Parameters

#### *inputInteger*

Type: [Integer](#)

### Return Value

Type: [QueueableDuplicateSignature.Builder](#)

## `addString(inputString)`

Adds a string to build a unique signature for a queueable job. You can then enqueue the job by using the signature as the `AsyncOptions` parameter to `System.enqueueJob()`.

### Signature

```
public System.QueueableDuplicateSignature.Builder addString(String s)
```



### Return Value

Type: [QueueableDuplicateSignature.Builder](#)

## build()

Builds a unique signature for a queueable job. You can then enqueue the job by using the `AsyncOptions` parameter to `System.enqueueJob()`.

### Signature

```
public System.QueueableDuplicateSignature build()
```

### Return Value

Type: [QueueableDuplicateSignature Class](#)

## getMaxSize()

Gets the maximum size of the queueable job signature in bytes.

### Signature

```
public Integer getMaxSize()
```

### Return Value

Type: [Integer](#)

## getRemainingSize()

Gets the remaining size of the queueable job signature in bytes, after subtracting what is used by the signature from the maximum allowed number.

### Signature

```
public Integer getRemainingSize()
```

### Return Value

Type: [Integer](#)

## getSize()

Gets the size of the queueable job signature in bytes.

### Signature

```
public Integer getSize()
```

### Return Value

Type: [Integer](#)

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