Package ‘nhsnumber’

December 7, 2020

Type Package
Title Tools for Working with NHS Number Checksums
Version 0.1.1
Description Provides functions for working with NHS number checksums. The UK’s National Health Service issues NHS numbers to all users of its services and this package implements functions for verifying that the numbers are valid according to the checksum scheme the NHS use. Numbers can be validated and checksums created.
URL https://github.com/sellorm/nhsnumber
BugReports https://github.com/sellorm/nhsnumber/issues
License MIT + file LICENSE
Encoding UTF-8
LazyData true
RoxygenNote 7.1.1
Suggests testthat (>= 2.1.0)
NeedsCompilation no
Author Mark Sellors [aut, cre, cph]
Maintainer Mark Sellors <rstuff@5vcc.com>
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**get_checksum**  
*Calculates NHS number checksums*

**Description**
NHS numbers are 10 digit numbers where the 10th digit is a checksum. This function takes the 9 core digits of the NHS number and calculates the checksums.

**Usage**
```
get_checksum(nhs_number, full_output = FALSE)
```

**Arguments**
- `nhs_number` A 9 digit NHS numbers to validate
- `full_output` Boolean that controls display of warning messages

**Details**
This function has been created using information from: https://en.wikipedia.org/wiki/NHS_number and various NHS sources

**Value**
Either the calculated checksum or the complete 10 digit NHS number including the checksum.

**Examples**
```
get_checksum(123456788)
get_checksum(123456788, full_output = TRUE)
```

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**is_number_valid**  
*Checks validity of an NHS number*

**Description**
NHS numbers are 10 digit numbers where the 10th digit is a checksum. This function validates the checksums of the supplied NHS numbers.

**Usage**
```
is_number_valid(nhs_number, warn = TRUE)
```

**Arguments**
- `nhs_number` A 10 digit NHS number to validate
- `warn` Boolean that controls display of warning messages
is_valid

Examples

is_valid(1234567881)
is_valid(1234567890, warn = FALSE)

is_valid
Checks validity of NHS numbers

Description

NHS numbers are 10 digit numbers where the 10th digit is a checksum. This function validates the checksums of the supplied NHS numbers.

Usage

is_valid(nhs_number, warn = TRUE)

Arguments

nhs_number A vector of 10 digit NHS numbers to validate
warn Boolean that controls display of warning messages

Value

A logical vector indicating the validity of each input value

Examples

is_valid(1234567881)
is_valid(c(1234567881, 1234512345, 123456789))
is_valid(1234567890, warn = FALSE)
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