Package 'bronglaisBarcodes'

October 13, 2021

Type Package

Title Barcode Generator for Blood Biochemistry

Version 0.1.2

Description Create barcodes for transferring samples to the Bronglais Clinical Biochemistry Unit from studies at the Well-being & Health Assessment Research Unit (WARU).

License GPL (>= 3)

Depends magrittr,

Imports magick,
   uuid,
   dplyr,
   tibble,
   stringr,
   crayon,
   cli

SystemRequirements zint

Encoding UTF-8

LazyData true

RoxygenNote 7.1.1

Roxygen list(markdown = TRUE)

Suggests testthat (>= 2.1.0)

R topics documented:

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create_address_barcode

Create Address Barcode

Description

This functions invokes a system command to `Zint` and outputs a **Code 128** barcode.

Usage

```
create_address_barcode(address = "CarwynJamesBuilding")
```

Arguments

address   A character string with no white space which is used as the sample address

Details

Barcodes are saved to the directory which has been created using `create_directory`.

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create_directory   *Create Temporary Directory*

Description

Create Temporary Directory

Usage

```
create_directory(filePath)
```

Arguments

filePath   A valid directory path where barcodes are saved

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create_dob_barcode *Create Date-of-Birth (DOB) Barcode*

Description

This functions invokes a system command to Zint and outputs a **Code 128** barcode.

Usage

```
create_dob_barcode(DOB)
```

Arguments

DOB   A character string of Date-of Birth in the following format; **DD/MM/YYYY**

Details

Barcodes are saved to the directory which has been created using create_directory.

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create_id_barcode *Create ID Barcode*

Description

This functions invokes a system command to Zint and outputs a **Code 128** barcode.

Usage

```
create_id_barcode(id)
```

Arguments

id   A character string of participant ID

Details

Barcodes are saved to the directory which has been created using create_directory.

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generate_barcodes   *Generate Barcodes*

Description

This is the main worker function of the whole package. generate_barcodes wraps up the barcode creation and arrangement and saves them in the specified directory.

Usage

```
generate_barcodes(
  filePath,
  ID,
  DOB,
  GENDER,
  ADDRESS,
  TYPE = c("FORM", "LOG", "FBC"),
  pathRename = FALSE
)
```

Arguments

filePath	A valid directory path where barcodes are saved
ID	A character string of participant ID
DOB	A character string of Date-of Birth in the following format; **DD/MM/YYYY**
GENDER	A character of either M or F (for Male and Female respectively)
ADDRESS	A character string with no white space which is used as the sample address
TYPE	A character vector of any of the following options

- **FORM** : Transfer Form
- **LOG** : Log Book
- **FBC** : Full Blood Count
- **CHEM21** : Chemistry-21 Panel (LFT, U&E)
- **VITD** : Vitamin-D
- **GLUCOSE** : Glucose
- **HBA1C** : Glycated Haemoglobin (HbA1c)
- **INSULIN** : Insulin

pathRename	logical; if TRUE then the directory where barcodes are saved to will be named ID + Sys.Date(). IF FALSE (default) then the original UID code will be used for directory naming.

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