

Children Health Book Documentation

version 0.1

M.Geevarghese, A.Khan, M.Lazaridi, S.Latortue, J.Wang

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Welcome to Children Health Book's documentation!

User documentation

Add A Child To The Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 1 by typing '1'
4. It will prompt you and welcome you to 'Register your child. Enter the data to add a record.'
5. It'll then prompt you to enter the first name, middle name, last name of the child, respectively.
6. It will then prompt you to enter the Date of Birth in the format of (MM/DD/YYYY).
7. Once the information is entered, the information entered will display as a confirmation and you can press any key to exit back to the main menu.

Screenshot of feature

```
=====
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 1
Register your child. Enter the data to add a record.
First Name: David
Middle Name: Martin
Last Name: Grey
Date of Birth (YYYY-MM-DD): 2011-10-12
Created a record:
David Martin Grey 2011-10-12
You child is 2 years 1 month old
Press ENTER to continue
```

Record Child's Measurements To The Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 2 by typing '2'
4. The list of children will be presented and will prompt you for a request to add a child's measurement to a child 'Input a number to proceed: '(Type the number to the corresponding child you want to add the measurements to)
5. It will prompt you and welcome you to '== Record Your Child's Height ==' & to enter 'Enter your child's number of feet:'
6. It'll then prompt you to enter the child's number of inches, number of pounds, respectively.
7. Once the information is entered, the information entered will display as a confirmation along with the name of the child it was added to and you can press any key to exit back to the main menu.

Screenshot of feature

```
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 2
=====
Pick a child
=====
1. Terry Smith 2005-10-12
2. John Smith 2008-01-01
3. Michael Lucas 2011-10-12
4. David Grey 2011-10-12
5. Jessica McGee 2012-06-05
Input a number to proceed: 4
=====
== Record Your Child's Height ==
Enter your child's number of feet: 1
Enter your child's number of inches: 5
=====
== Record Your Child's Weight ==
Enter your child's number of pounds: 25
David Grey
=====
== History of growth ==
HEIGHT | WEIGHT | RECORD DATE
-----|-----|-----
1'5" | 25 lb | 2013-12-10
Press ENTER to continue
```

View Child's Measurements From Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 3 by typing '3'
4. The list of children will be presented and will prompt you for a request to view a child's measurement of a child 'Input a number to proceed: '(ie:Type the number to the corresponding child you want to view the measurements of)
5. Once entered, the program will display the child's height, inches, number of pounds, and the record date respectively.
6. Once the user has completed viewing the information, you can press any key to exit back to the main menu.

Screenshot of feature

```
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 3
=====
Pick a child
=====
1. Terry Smith 2005-10-12
2. John Smith 2008-01-01
3. Michael Lucas 2011-10-12
4. David Grey 2011-10-12
5. Jessica McGee 2012-06-05
Input a number to proceed: 4
=====
David Grey
=====
== History of growth ==
HEIGHT | WEIGHT | RECORD DATE
-----|-----|-----
1'5" | 25 lb | 2013-12-10
Press ENTER to continue
```

Record Child's Medications To The Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and it will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 4 by typing '4' and press Enter.
4. It will give you a list of childrens and prompt you to 'Pick a child.'
5. Make a choice by entering the child number and press enter.

Welcome to Children Health Book's documentation!

6. Now you are giving a list of Medication Type, make selection (e.g 'Supplements')
7. Next, Enter the Name of your Medication and press enter
8. Next, Enter the Reason of your Medication and press enter
9. Next, Enter Medication Dosage amount and press enter
10. Next, Enter Medication warning and press enter
11. Next, Enter Medication start date and press enter
12. Next, Enter Medication end date and press enter
13. A table will display your Child's Medication Record.

Screenshot of feature:

```
=====
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 4
=====
Pick a child
=====
1. Jessica McGee 06/05/2012
2. Terry Smith 10/12/2005
3. Michael Lucas 10/12/2011
4. John Smith 2008-01-01
Input a number to proceed: 4
=====
== Select Medication Type ==
=====
1. Prescription
2. Non-Prescription
3. Supplements
4. Other
Input a number to proceed: 3
```

```
== Medications Records ==
Enter the Name of your Medication
Test med
Enter the Reason for Medication Use
flu
Enter Medication Dosage Amount
small
Enter Medication Warnings
none
Enter Start Date (YYYY-MM-DD)
2013-11-13
Enter End Date (YYYY-MM-DD)
2013-11-24

John Smith

== Medication Records ==

Medication Type | Medication Name | Medication Purpose | Dosage | Warnings | Start Date | End Date
-----
Supplements | Test med | flu | small | none | 2013-11-13 | 2013-11-24
Prescription | a | a | a | 1 | 1
Supplements | bat | bat | bat | bat | 2012-12-12 | 2012-12-22
Other | q | d | x |
x | s
Press ENTER to continue
```

Record Child's Visits to healthcare provider To The Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
 2. The list of options will be presented and it will prompt you for a request 'Input a number to proceed: '
 3. Choose Option # 5 by typing '5' and press Enter.
 4. It will give you the following options:
 1. Add healthcare provider
 2. Add visit to healthcare provider
 3. Review upcoming appointments
 4. Back to main menu
 5. Make a choice by entering a number from 1 - 4 and press enter.
- Choice 1 Add healthcare provider
- Please input details about healthcare provider and press enter
 - Enter Name
 - Enter address
 - Enter Phone number
 - You will get a confirmation message "Saved"
- Choice 2 Add visit to healthcare provider

Welcome to Children Health Book's documentation!

- It will give you a list of childrens and prompt you to 'Pick a child.'
- Make a choice by entering the child number and press enter.
- Enter the name of the heathcare provider and press enter
- Describe the reason of the visit and press enter
- Date of the visit (YYYY-MM-DD) and press enter
- As a confirmation you will get a table that show History of visits.

Choice 3 Review Upcomming Appointments

- It will give you a list of childrens and prompt you to 'Pick a child.'
- Make a choice by entering the child number and press enter.
- You will get a table that shows History of visits.

Choice 4 Review Upcomming Appointments

- It will take you back to the Main menu.

Screenshot of feature:

```
=====
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 5
=====
Visits to healthcare provider
=====
1. Add healthcare provider
2. Add visit to healthcare provider
3. Review upcoming appointments
4. Back to main menu
Input a number to proceed: 1

==Please input details about healthcare provider==

Enter name: apple
Enter address: 137 st
Enter phone number: 212 650 7000

Saved
Press ENTER to continue
```

Record Child's Allregies to Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and it will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 4 by typing '4' and press Enter.
4. It will give you a list of childrens and prompt you to 'Pick a child.'
5. Make a choice by entering the child number and press enter.
6. Enter The Allergy of Your Child and press enter
7. Next, Select Allergy Type and press enter:
 1. Drug

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2. Food
 3. Environment
 4. Other
8. Next, Select The Severity of Your Child's Reaction and press enter
1. Very Mild
 2. Mild
 3. Moderate
 4. Severe
9. Enter Your Child's Reaction to The Allergy and press enter
10. Next, Select the Allergy Onset and press enter
1. Unknown
 2. Adulthood
 3. Childhood
11. Enter any comments or notes and press enter
12. A table will display your Child's Allergy Record.
- Screenshot of feature:

```
=====
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 6
=====
Pick a child
=====
1. Jessica McGee 06/05/2012
2. Terry Smith 10/12/2005
3. Michael Lucas 10/12/2011
4. John Smith 2008-01-01
Input a number to proceed: 4

== Allergy Records ==

Enter The Allergy of Your Child
Penuts
=====
== Select Allergy Type ==
=====
1. Drug
2. Food
3. Environment
4. Other
Input a number to proceed: 2
```

```
=====
== Select The Severity of Your Childs Reaction ==
=====
1. Very Mild
2. Mild
3. Moderate
4. Severe
Input a number to proceed: 3
Enter Your Child's Reaction to The Allergy
  sore throat
=====
== Select the Allergy Onset ==
=====
1. Unknown
2. Adulthood
3. Childhood
Input a number to proceed: 3
Enter Any Comments
  very little pain

John Smith

== Allergy Records ==

Allergy   | Allergy Type | Severity | Reaction
          | Onset       | Comment
-----|-----
Penuts    | Food        | Moderate | sore throat
          | Childhood   | very little pain
Press ENTER to continue
```

Record Child's Vaccines to Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 7 by typing '7' and pess 'Enter'
4. The list of children will be presented. Pick a child for whom you want to record a blood test. Input number of the child and press 'Enter'
5. You will be requested to input details about vaccine. Input name of the vaccine and press 'Enter'
6. Input date when the vaccine was taken in following format YYYY-MM-DD (for example 14 October 2013 will be 2013-10-14) and press 'Enter'
7. Input dose of the vaccine and press 'Enter'
8. Information about the vaccine will be saved and you will see short report on all vaccines that your child has taken.
9. To return to Main Menu press 'Enter'

Screenshot of feature:

```
=====
Pick a child
=====
1. Terry Smith 2005-10-12
2. John Smith 2008-01-01
3. Michael Lucas 2011-10-12
4. Jessica McGee 2012-06-05
Input a number to proceed: 1

== Record Your child's vaccine ==

Please enter the vaccine name:Flu shot
Please enter the vaccine date (YYYY-MM-DD): 2013-12-05
Please enter the vaccine dose:25mg

Terry Smith

== History of vaccines ==
VACCINE NAME | VACCINE DATE | DOSE
-----
Flu shot | 2013-12-05 | 25mg
Press ENTER to continue
```

Record Child's Blood Tests to Children's Health Book

1. Run the CHB.py file to start the program; the main menu will be presented.
2. The list of options will be presented and will prompt you for a request 'Input a number to proceed: '
3. Choose Option # 8 by typing '8' and press 'Enter'

```
Main Menu
=====
1. New record for a child
2. Record Measurements
3. Growth report
4. Record Medications
5. Visits to healthcare provider
6. Record Allergies
7. Record Vaccines
8. Record Blood Test
9. Exit
Input a number to proceed: 8
```

4. The list of children will be presented. Pick a child for whom you want to record a blood test. Input number of the child and press 'Enter'

```
=====
Pick a child
=====
1. Jessica McGee 06/05/2012
2. Terry Smith 10/12/2005
3. Michael Lucas 10/12/2011
4. John Smith 2008-01-01
Input a number to proceed: 1
```

5. You will be requested to input details about blood test. Input date when the test was taken in following format YYYY-MM-DD (for example 14 October 2013 will be 2013-10-14) and press 'Enter'

```
== Record Your Child's Blood Test ==
```

```
Enter the date when the test was taken (YYYY-MM-DD):
```

6. Input the type of blood test, for example and press 'Enter'.
7. Input result of the blood test, you may include details such as units. Press 'Enter'
8. Question "Do you want to add more tests" will appear on the screen. Should you have more tests results to add input 'y' and press 'Enter'. You may add as many test results as you need.
9. If you chose to add more tests repeat steps 6, 7 and 8.
10. If you have finished - input 'n' and press 'Enter'.

```
== Record Your Child's Blood Test ==
Enter the date when the test was taken (YYYY-MM-DD): 2013-10-14
Enter the type of blood test: White blood cells
Enter the result of the blood test: 25 mcg/l^3
```

11. You now will see all the blood test results for your child on the screen.

```
Blood test date: 2013-10-14
      TEST          | RESULT
-----|-----
  White blood cells | 25 mcg/l^3
  Red blood cessel  | 32 mcg/ml^3
Press ENTER to continue
```

Screenshot of feature

```
=====
Pick a child
=====
1. Jessica McGee 06/05/2012
2. Terry Smith 10/12/2005
3. Michael Lucas 10/12/2011
4. John Smith 2008-01-01
Input a number to proceed: 1

== Record Your Child's Blood Test ==

Enter the date when the test was taken (YYYY-MM-DD): 2013-10-14
Enter the type of blood test: white blood cells
Enter the result of the blood test: 25 mcg/l^3
Do you want to enter more tests?(y/n) y
Enter the type of blood test: Red blood cessel
Enter the result of the blood test: 32 mcg/ml^3
Do you want to enter more tests?(y/n) n

Jessica McGee

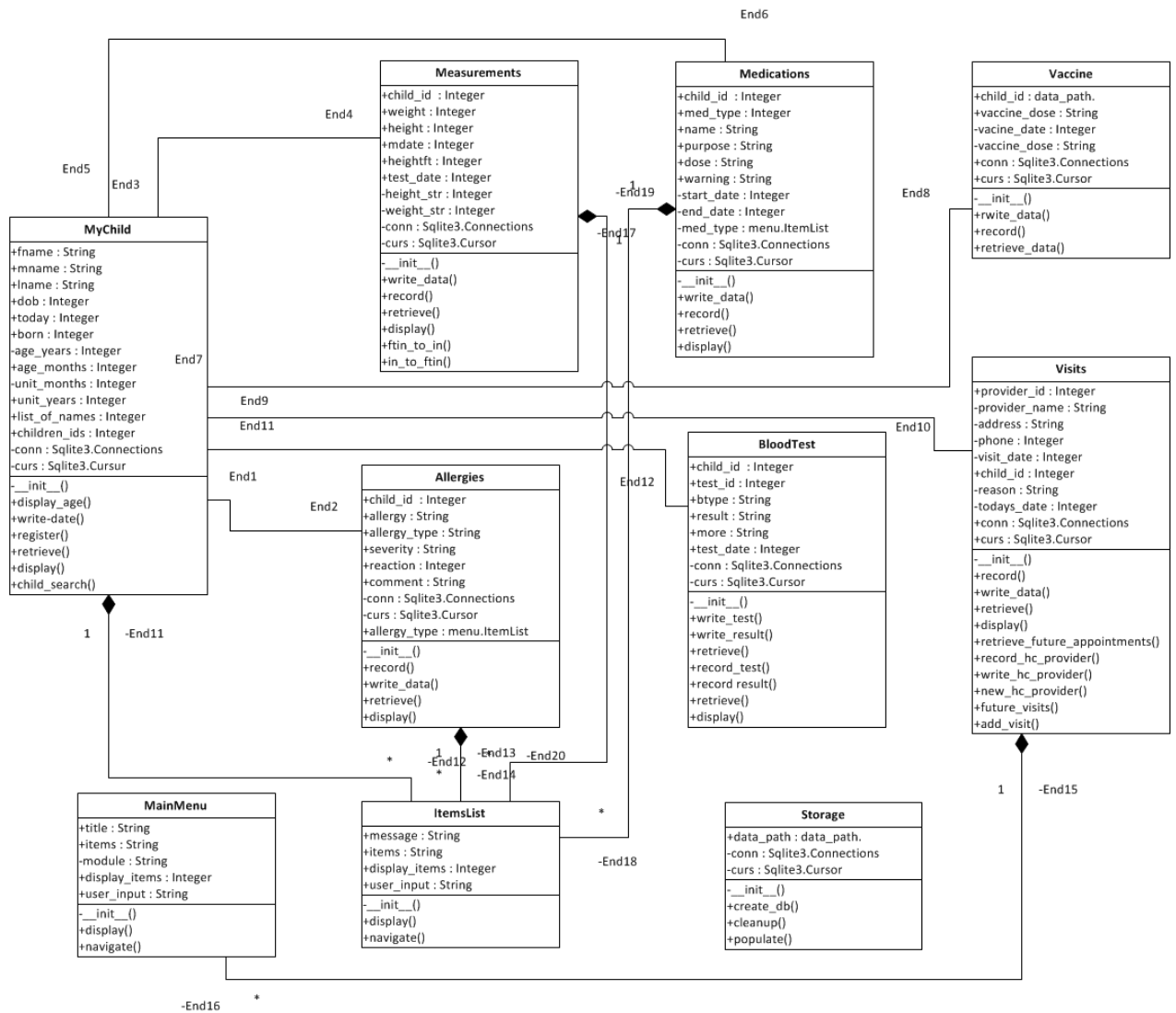
== Blood Tests Report ==

Blood test date: 10/22/2013
-----
TEST          | RESULT
-----
some          | 23
other         | 54
else          | 53

Blood test date:
```

Developers' documentation

Classes diagram



Classes

menu

MainMenu class allows to create menu objects. Attribute self.items contains list of menu items. Attribute self.modules contains list(can be any sorted iterable) of modules associated by order with the list of items Method self.display_menu() outputs menu items on the screen Method self.navigate() allows to navigate through the menu To add exit to the menu assign put string = 'exit' instead of a link to the module in the module list

class menu.**MainMenu** (title, items, modules)

Class allows to create menu objects.

Mandatory paramtrs:

1. title - menu title, string
2. items - list or tuple of strings, each item represents a menu item
3. modules - list or tuple of modules that are connected to each menu item, have to be in the same order as items

display (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Outputs numerated menu items to the screen

navigate (repeat=5, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Navigation through the menu, sends user to the module if he picks correct menu item, otherwise repeats request to pick a menu item over and over

mychild

register(stream) - runs a dialog with the user in the stream (stdout by default), asks for first, middle, last names and date of birth. **write_data**() - submits a record of a child to the storage file. **retrieve_data**(stream) - searches a record by the same last name and date of birth and prints it out **display_age**() - displays age of a child.

class mychild.**MyChild** (storage='../data/children_health.db')

Class for the objects that represent children, including first name, middle name, last name, date of births, age. Optional parameter - path to a storage .db file

child_search ()

Method allows to pick a child for whom information about visit is added. Displays numerated list of children from the database as a numerated list. Users picks a child by inputing a number

display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that displays retrieved data as a table

display_age (today_date=datetime.datetime(2013, 12, 10, 2, 50, 34, 720314), stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Calculates and prints the age of a child

register (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Dialog with a user to register a child

retrieve (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Searches by Last Name and DOB, retrieves the data and prints it

write_data ()

Writes data to the existing DB

allergies

Module Allergies asks the parent to record their childs allergies. It writes the records in a table in the database

class allergies.**Allergies** (child_id, storage='../data/children_health.db')

Class for the objects the represents the allergy, allergy type, severity, reaction, onset and a comment section. Mandatory parameter - child_id, optional parameter - path to a storage .db file

display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that displays retrieved data as a table

record (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method for requesting user to enter the represents the allergy, allergy type, severity, reaction, onset and a comment section

retrieve ()

Method for retrieving data from the database, and then sorting it in a row

write_data ()

Method for writing the allergy,allergy type, severity, reaction, onset and a comment section in the database

blood

This module asks the user to enter a blood test results. Module allows to enter several blood test types and results for each instance of the blood test

`class blood.BloodTest (child_id, storage='../data/children_health.db')`

Class for blood test. Mandatory parameter - child_id, optional parameter - path to a storage .db file

`display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)`

Method that displays retrieved data as a table

record_result ()

Method that requests user to input blood test type and results. It recursively repeats itself untill user stops it

`record_test (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)`

Method that requests user to input blood test date

`retrieve (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)`

Method that retrieves information about blood test, including child's name, test date, all test types and rresults

write_result ()

Method that writes test type and test results of an instance of blood test to the table blood_test_result

write_test ()

Method that writes an instance of blood test to the table blood_test in database

measure

Module measure asks the parent to enter the height and weight of the child. It writes the measurements in a table in the database The method write_data writes the child id, height, weight, and date stamp the day of entry.

`class measure.Measurements (child_id, mdate='2013-12-10', storage='../data/children_health.db')`

Class for the objects that represents the height, weight, & date stamp. Mandatory parameter - child_id, optional parameter - path to a storage .db file

`display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)`

Method that displays retrieved data as a table

ftin_to_in (heightft, heightin)

Methos converts heaight from feet-inches to inches

in_to_ftin (height)

Method converts height from inches to feet-inches

record (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that requests user to enter height & weight of the child

retrieve ()

Method that retrieves data from the database, and then displays it as a table

write_data ()

Method that writes the height, weight & date stamp to the database

meds

Module prescription_medications asks the parent to enter their child's medication history. It writes the records in a table in the database

class meds.**Medications** (child_id, storage='../data/children_health.db')

Class for the objects that represent the medication type, medication name, medication purpose, medication dose, and medication warnings. Mandatory parameter - child_id, optional parameter - path to a storage .db file

display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that displays retrieved data as a table

record (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that requests user to enter the medication type, medication name, medication purpose, medication dose, and medication warnings

retrieve ()

Method that retrieves data about all child's medications from the database and outputs it as a table.

write_data ()

Method that writes the medication type, medication name, medication purpose, medication dose, and medication warnings in the database

storage

Module storage responsible for storage management. Creates and edits storage file. Storage is organized as SQLite .db file

class storage.**Storage** (data_path)

Class for data storage organization and management

create_db ()

Creates tables

Tables structure:

mychild

- id INTEGER PRIMARY KEY
- first_name TEXT

- middle_name TEXT
- last_name TEXT
- date_of_birth TEXT

measurements

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- height INTEGER
- weight INTEGER
- date TEXT

medications

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- med_type TEXT
- name TEXT
- purpose TEXT
- dose TEXT
- warnings TEXT
- start_date TEXT
- end_date TEXT

blood_test_result

- id INTEGER PRIMARY KEY
- blood_test_id INTEGER SECONDARY KEY
- type TEXT
- result TEXT

blood_test

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- date TEXT

allergies

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- allergy TEXT
- allergy_type TEXT

- severity TEXT
- reaction TEXT
- onset TEXT
- comment TEXT

vaccines

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- vaccine_name TEXT
- vaccine_date TEXT
- vaccine_dose TEXT
- image TEXT

visit

- id INTEGER PRIMARY KEY
- mychild_id INTEGER SECONDARY KEY
- provider_id INTEGER SECONDARY KEY
- reason TEXT
- date TEXT

healthcare_provider

- id INTEGER PRIMARY KEY
- name TEXT
- address TEXT
- phone TEXT

vaccine

Module for vaccines resord. Vaccine class allows to create vaccine objects. Attribute self.vaccine_name contains the vaccine name. Attribute self.vaccine_date means the child got vaccine on that day. Attribute self.vaccine_dose means the child got the same vaccine at Attribute self.image is the path of the scanned image several dose:first dose, second dose etc. Method self.write_data means storing the vaccine items to the table of database. Method self.record ask the parent to enter the vaccine of the child.

```
class vaccine.Vaccine (child_id, storage='../data/children_health.db')  
    Class vaccine allows to create vaccine objects.
```

```
display (retrieve_data=None, stream=<open file '<stdout>', mode 'w' at  
0x4048e078>)
```

Method that displays retrieved data as a table

```
record (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)
```

This method ask parens to input vaccine items

retrieve_data ()

Retrieves data about all the vaccines for the child whos id is recorded in the attribute self.child_id. Id should match id of a child in the database file, table mychild.

write_data ()

This method is for writing the vaccine name, vaccine date, vaccine dose in the database

visit

Module to record and display information about visits to the healthcare provider

class visit.**Visit** (child_id, storage='../data/children_health.db')

Class to record and display information about visits to the healthcare provider. Mandatory parameter - child_id, optional parameter - path to a self.storage .db file

display (retrieved_data=None, stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Method that displays retrieved data as a table

record (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Dialog with a user in order to add details of visit

record_hc_provider (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Dialog with user that allows to input details about healthcare provider

retrieve ()

Retrieves data about all the visits for the child whos id is recorded in the attribute self.child_id. Id should match id of a child in the database file, table mychild.

retrieve_future_appointments ()

Retrieves data about all the upcoming visits for the child whos id is recorded in the attribute self.child_id. Id should match id of a child in the database file, table mychild and the date should be in the future

write_data ()

Writes data about visit to the database file

write_hc_provider (stream=<open file '<stdout>', mode 'w' at 0x4048e078>)

Writes data about healthcare provider to the database

Indices and tables

- genindex
- modindex
- search

Index

A

Allergies (class in allergies)

allergies (module)

B

blood (module)

BloodTest (class in blood)

C

child_search() (mychild.MyChild method)

create_db() (storage.Storage method)

D

display() (allergies.Allergies method)

(blood.BloodTest method)

(measure.Measurements method)

(meds.Medications method)

(menu.MainMenu method)

(mychild.MyChild method)

(vaccine.Vaccine method)

(visit.Visit method)

display_age() (mychild.MyChild method)

F

ftin_to_in() (measure.Measurements method)

I

in_to_ftin() (measure.Measurements method)

M

MainMenu (class in menu)

measure (module)

Measurements (class in measure)

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