

Packages		
Package	Description	
Controller		
Model		
View		

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV NEXT FRAMES NO FRAMES ALL CLASSES

Hierarchy For All Packages

Package Hierarchies:

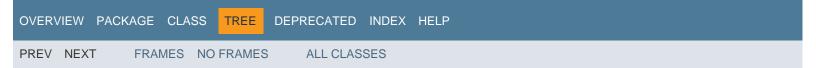
Controller, Model, View

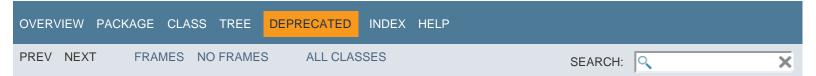
Class Hierarchy

- o java.lang.Object
 - Controller.Controller (implements Controller.IController)
 - Model. Dose (implements Model. IDose, java.io. Serializable)
 - Model. Medicine (implements Model. IMedicine, java.io. Serializable)
 - View.View

Interface Hierarchy

- Controller.IController
- Model.**IDose**
- Model.IMedicine





Deprecated API

Contents

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HELP

ACDGILMNPRSTUV

Α

addDose(boolean) - Static method in class View. View

Creates Dose from user input.

addDose(LocalDateTime, double, boolean) - Method in class Controller.Controller

addDose(LocalDateTime, double, boolean) - Method in interface Controller.lController

addDose(LocalDateTime, double, Boolean) - Method in interface Model.IMedicine Add a Dose to doses array.

addDose(LocalDateTime, double, Boolean) - Method in class Model. Medicine

amountDose - Variable in class Model.Dose

Amount of dose.

ACDGILMNPRSTUV

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV LETTER NEXT LETTER

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ALL CLASSES

How This API Document Is Organized

This API (Application Programming Interface) document has pages corresponding to the items in the navigation bar, described as follows.

Overview

The Overview page is the front page of this API document and provides a list of all packages with a summary for each. This page can also contain an overall description of the set of packages.

Package

Each package has a page that contains a list of its classes and interfaces, with a summary for each. This page can contain six categories:

- Interfaces (italic)
- Classes
- Enums
- Exceptions
- Errors
- Annotation Types

Class/Interface

Each class, interface, nested class and nested interface has its own separate page. Each of these pages has three sections consisting of a class/interface description, summary tables, and detailed member descriptions:

- Class inheritance diagram
- Direct Subclasses
- All Known Subinterfaces
- All Known Implementing Classes
- Class/interface declaration
- Class/interface description
- Nested Class Summary
- Field Summary
- Constructor Summary
- Method Summary
- Field Detail
- Constructor Detail
- Method Detail

Each summary entry contains the first sentence from the detailed description for that item. The summary entries are alphabetical, while the detailed descriptions are in the order they appear in the source code. This preserves the logical groupings established by the programmer.

Annotation Type

Each annotation type has its own separate page with the following sections:

- Annotation Type declaration
- Annotation Type description
- · Required Element Summary
- Optional Element Summary
- Element Detail

Enum

Each enum has its own separate page with the following sections:

- Enum declaration
- Enum description
- Enum Constant Summary
- Enum Constant Detail

Tree (Class Hierarchy)

There is a Class Hierarchy page for all packages, plus a hierarchy for each package. Each hierarchy page contains a list of classes and a list of interfaces. The classes are organized by inheritance structure starting with <code>java.lang.Object</code>. The interfaces do not inherit from <code>java.lang.Object</code>.

- When viewing the Overview page, clicking on "Tree" displays the hierarchy for all packages.
- When viewing a particular package, class or interface page, clicking "Tree" displays the hierarchy for only that package.

Deprecated API

The Deprecated API page lists all of the API that have been deprecated. A deprecated API is not recommended for use, generally due to improvements, and a replacement API is usually given. Deprecated APIs may be removed in future implementations.

Index

The Index contains an alphabetic list of all classes, interfaces, constructors, methods, and fields.

Prev/Next

These links take you to the next or previous class, interface, package, or related page.

Frames/No Frames

These links show and hide the HTML frames. All pages are available with or without frames.

All Classes

The All Classes link shows all classes and interfaces except non-static nested types.

Serialized Form

Each serializable or externalizable class has a description of its serialization fields and methods. This information is of interest to re-implementors, not to developers using the API. While there is no link in the navigation bar, you can get to this information by going to any serialized class and clicking "Serialized Form" in the "See also" section of the class description.

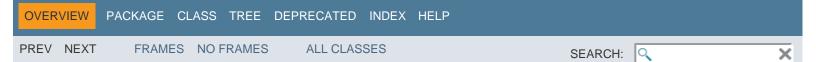
Constant Field Values

The Constant Field Values page lists the static final fields and their values.

This help file applies to API documentation generated using the standard doclet.

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV NEXT FRAMES NO FRAMES ALL CLASSES



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OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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All Classes

Controller

Dose

IController

IDose

IMedicine

Medicine

View

Package Controller

Interface Summary

Interface Description

IController

Class Summary

Class Description

Controller

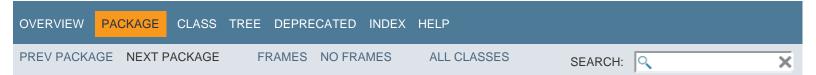
OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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Package Model

Interface Summary		
Interface	Description	
IDose		
IMedicine		
Class Summary		
Class	Description	
Dose		
Medicine		

OVERVIEW	PACKAGE	CLASS	TREE DEPRECATED	INDEX	HELP
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Package View

Class Summary

Class Description
View

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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Hierarchy For Package Controller

Package Hierarchies:

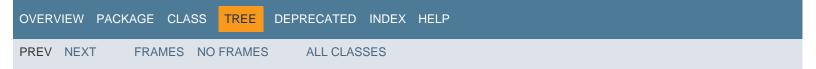
All Packages

Class Hierarchy

- java.lang.Object
 - Controller.Controller (implements Controller.IController)

Interface Hierarchy

Controller.IController



Hierarchy For Package Model

Package Hierarchies:

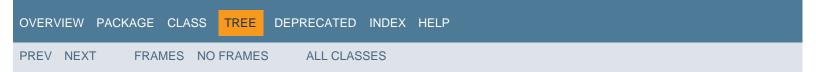
All Packages

Class Hierarchy

- o java.lang.Object
 - Model. Dose (implements Model. IDose, java.io. Serializable)
 - Model. Medicine (implements Model. IMedicine, java.io. Serializable)

Interface Hierarchy

- Model.IDose
- Model.IMedicine



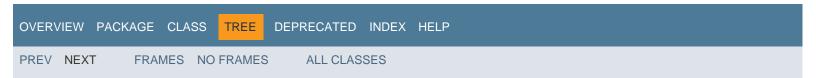
Hierarchy For Package View

Package Hierarchies:

All Packages

Class Hierarchy

java.lang.ObjectView.View



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ALL CLASSES

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SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

Package Controller

Class Controller

java.lang.Object Controller.Controller

All Implemented Interfaces:

IController

public class Controller
extends java.lang.Object
implements IController

Field Summary

Fields

Modifier and Type	Field	Description
private IMedicine	medicine	Medicine file
private java.time.ZoneOffset	timezone	Defines time zone.

Constructor Summary

Constructors

Constructor Description

Controller()

Method Summary

All Methods

Static Methods

Instance Methods

Concrete Methods

Modifier and Type	Method	Description
void	<pre>addDose(java.time.LocalDateTime dateTimeTakeDose, double amount, boolean isTest)</pre>	
java.time.LocalDate	createLocalDate(java.lang.String date)	Creates a LocalDate instance by parsing a String.
java.time.LocalTime	createLocalTime(java.lang.String time)	Creates a LocalTime instance by parsing a String.
java.lang.Double	getConcentrationAtTime(IDose doseIn, java.time.LocalDateTime dateTimeAtIn)	Calculate concentration amount at specified time.
IMedicine	<pre>getMedicine()</pre>	Retrieves the Medicine instance.
java.time.LocalDateTime	<pre>getPeakLevel(IDose dose)</pre>	Calculates when Dose is going to reach its peak level of concentration.
java.lang.Double	<pre>getSumConcentrationsAtTime(java.time.LocalDateTime dateTime)</pre>	Sums all dose amount at a time specified by the user
java.time.LocalDateTime	getWhenToDose(IDose dose, double amountDoseAt)	Calculates when to give next dose to reach a certain concentration amount.
void	loadFile(java.lang.String filename)	Load a saved Medicine file.
void	newFile(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)	Create a new Medicine instance.

static java.lang.Double	<pre>parseValidAmount()</pre>	Verifies if parsed input is a valid number amount.
static java.lang.Integer	parseValidInt()	Verifies if parsed input is a valid integer.
void	removeAllDoses()	Delete all doses from the dosages array.
void	removeDose(int index)	Remove a dose by its index.
void	removeTestDoses()	Removes all test doses.
void	saveFile(java.lang.String filename)	Save Medicine to a file.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait,
wait, wait

Field Detail

timezone

private java.time.ZoneOffset timezone

Defines time zone. Default: -05:00

medicine

private IMedicine medicine

Medicine file

Constructor Detail

Controller

public Controller()

Method Detail

getMedicine

public IMedicine getMedicine()

Description copied from interface: IController

Retrieves the Medicine instance.

Specified by:

getMedicine in interface IController

Returns:

Medicine instance.

addDose

Specified by:

addDose in interface IController

removeDose

public void removeDose(int index)

Description copied from interface: IController

Remove a dose by its index.

Specified by:

removeDose in interface IController

Parameters:

index - index of dose.

removeAllDoses

public void removeAllDoses()

Description copied from interface: IController

Delete all doses from the dosages array.

Specified by:

removeAllDoses in interface IController

getConcentrationAtTime

public java.lang.Double getConcentrationAtTime(IDose doseIn, java.time.LocalDateTime dateTimeAtIn)

Description copied from interface: IController

Calculate concentration amount at specified time.

Specified by:

getConcentrationAtTime in interface IController

Parameters:

doseIn - Dose instance.

dateTimeAtIn - Specified time.

Returns:

Concentration amount at specific time.

getSumConcentrationsAtTime

 $public\ java.lang. Double\ get Sum Concentrations At Time (java.time. Local Date Time\ date Time)$

Description copied from interface: IController

Sums all dose amount at a time specified by the user

Specified by:

getSumConcentrationsAtTime in interface IController

Parameters:

dateTime - Specified time

Returns:

Sum of dose amounts at specified time.

saveFile

public void saveFile(java.lang.String filename)

Description copied from interface: IController

Save Medicine to a file. By default, save directory is user's home directory. Dose and Medicine MUST implement Serializable for this feature to work.

Specified by:

saveFile in interface IController

Parameters:

filename - Name of save file to be saved.

loadFile

public void loadFile(java.lang.String filename)

Description copied from interface: IController

Load a saved Medicine file. By default, load directory is user's home directory. Dose and Medicine MUST implement Serializable for this feature to work.

Specified by:

loadFile in interface IController

Parameters:

filename - Name of the file to be loaded.

newFile

public void newFile(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)

Description copied from interface: IController

Create a new Medicine instance.

Specified by:

newFile in interface IController

Parameters:

nameMedicine - Name of medicine

timeMaxMedicine - TMax of medicine.

timeHalfLifeMedicine - Half life of medicine.

createLocalDate

public java.time.LocalDate createLocalDate(java.lang.String date)

Description copied from interface: IController

Creates a LocalDate instance by parsing a String.

Specified by:

createLocalDate in interface IController

Parameters:

date - Date as a String.

Returns:

LocalDate instance.

createLocalTime

public java.time.LocalTime createLocalTime(java.lang.String time)

Description copied from interface: IController

Creates a LocalTime instance by parsing a String.

Specified by:

createLocalTime in interface IController

Parameters:

time - Time as a String.

Returns:

LocalTime instance.

parseValidAmount

public static java.lang.Double parseValidAmount()

Returns: valid amount.
parseValidInt
public static java.lang.Integer parseValidInt()
Verifies if parsed input is a valid integer.
Returns: valid integer.
removeTestDoses
<pre>public void removeTestDoses()</pre>
Description copied from interface: IController Removes all test doses.
Specified by:
removeTestDoses in interface IController
getPeakLevel
public java.time.LocalDateTime getPeakLevel(IDose dose)
Description copied from interface: IController Calculates when Dose is going to reach its peak level of concentration.
Specified by:
getPeakLevel in interface IController
Parameters:
dose - Dose instance.
Returns: Time when Dose reaches its peak level.

Verifies if parsed input is a valid number amount.

getWhenToDose

public java.time.LocalDateTime getWhenToDose(IDose dose, double amountDoseAt)

Description copied from interface: IController

Calculates when to give next dose to reach a certain concentration amount.

Specified by:

getWhenToDose in interface IController

Parameters:

dose - Dose instance.

amountDoseAt - Desired dose concentration amount.

Returns:

Time when doses reaches specified amount.

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package Controller

Interface IController

All Known Implementing Classes:

Controller

public interface IController

Method Summary

All Methods Instance Meth	hods Abstract Methods	
Modifier and Type	Method	Description
void	<pre>addDose(java.time.LocalDateTime dateTimeTakeDose, double amount, boolean isTest)</pre>	
java.time.LocalDate	createLocalDate(java.lang.String date)	Creates a LocalDate instance by parsing a String.
java.time.LocalTime	createLocalTime(java.lang.String time)	Creates a LocalTime instance by parsing a String.
java.lang.Double	getConcentrationAtTime(IDose doseIn, java.time.LocalDateTime dateTimeAtIn)	Calculate concentration amount at specified time.
IMedicine	<pre>getMedicine()</pre>	Retrieves the Medicine instance.
java.time.LocalDateTime	getPeakLevel(IDose dose)	Calculates

		when Dose is going to reach its peak level of concentration.
java.lang.Double	<pre>getSumConcentrationsAtTime(java.time.LocalDateTime dateTime)</pre>	Sums all dose amount at a time specified by the user
java.time.LocalDateTime	e getWhenToDose(IDose dose, double amountDoseAt)	Calculates when to give next dose to reach a certain concentration amount.
void	loadFile(java.lang.String filename)	Load a saved Medicine file.
void	newFile(java.lang.String name, java.time.LocalTime tMax, java.time.LocalTime halfLife)	Create a new Medicine instance.
void	removeAllDoses()	Delete all doses from the dosages array.
void	removeDose(int index)	Remove a dose by its index.
void	removeTestDoses()	Removes all test doses.
void	saveFile(java.lang.String filename)	Save Medicine to a file.

Method Detail

getMedicine

IMedicine getMedicine()

Retrieves the Medicine instance.

Returns:
Medicine instance.
addDose
void addDose(java.time.LocalDateTime dateTimeTakeDose, double amount, boolean isTest)
removeDose
void removeDose(int index)
Remove a dose by its index.
Parameters:
index - index of dose.
removeAllDoses
void removeAllDoses()
Delete all doses from the dosages array.

saveFile

void saveFile(java.lang.String filename)

Save Medicine to a file. By default, save directory is user's home directory. Dose and Medicine MUST implement Serializable for this feature to work.

Parameters:

filename - Name of save file to be saved.

loadFile

void loadFile(java.lang.String filename)

Load a saved Medicine file. By default, load directory is user's home directory. Dose and Medicine MUST implement Serializable for this feature to work.

Parameters:

filename - Name of the file to be loaded.

newFile

void newFile(java.lang.String name, java.time.LocalTime tMax, java.time.LocalTime halfLife)

Create a new Medicine instance.

Parameters:

name - Name of medicine

tMax - TMax of medicine.

halfLife - Half life of medicine.

getConcentrationAtTime

java.lang.Double getConcentrationAtTime(IDose doseIn, java.time.LocalDateTime dateTimeAtIn)

Calculate concentration amount at specified time.

Parameters:

doseIn - Dose instance.

dateTimeAtIn - Specified time.

Returns:

Concentration amount at specific time.

getSumConcentrationsAtTime

java.lang.Double getSumConcentrationsAtTime(java.time.LocalDateTime dateTime)

Sums all dose amount at a time specified by the user

Parameters:

dateTime - Specified time

Returns:

Sum of dose amounts at specified time.
createLocalDate
java.time.LocalDate createLocalDate(java.lang.String date)
Creates a LocalDate instance by parsing a String.
Parameters: date - Date as a String.
Returns: LocalDate instance.
createLocalTime
java.time.LocalTime createLocalTime(java.lang.String time)
Creates a LocalTime instance by parsing a String.
Parameters:
time - Time as a String. Returns:
LocalTime instance.
removeTestDoses
void removeTestDoses()
Removes all test doses.
getPeakLevel
java.time.LocalDateTime getPeakLevel(IDose dose)
Calculates when Dose is going to reach its peak level of concentration.
Parameters:
dose - Dose instance. Returns:
NGIUI II 3.

Time when Dose reaches its peak level.

getWhenToDose

java.time.LocalDateTime getWhenToDose(IDose dose, double amountDoseAt)

Calculates when to give next dose to reach a certain concentration amount.

Parameters:

dose - Dose instance.

amountDoseAt - Desired dose concentration amount.

Returns:

Time when doses reaches specified amount.

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package Model

Class Dose

java.lang.Object Model.Dose

All Implemented Interfaces:

java.io.Serializable, IDose

public class Dose
extends java.lang.Object
implements java.io.Serializable, IDose

See Also:

Serialized Form

Field Summary

Fields

Modifier and Type	Field	Description
private java.lang.Double	amountDose	Amount of dose.
private java.time.LocalDateTime	dateTimeTakeDose	Keep time when dose is taken.
private java.lang.Boolean	isTestDose	Defines whether dose is a test dose Default: false.

Constructor Summary

Constructors

Constructor Description

Dose()

Method Summary

All Methods Instance Met	hods Concrete Methods	
Modifier and Type	Method	Description
void	<pre>createDose(java.time.LocalDateTime dateTimeTakeDose, double amountDose, java.lang.Boolean isTestDose)</pre>	Creates a Dose instance
java.lang.Double	<pre>getAmountDose()</pre>	Concentration amount of the dose taken by patient.
java.time.LocalDateTime	<pre>getDateTimeTakeDose()</pre>	Time when the dose is taken by patient.
boolean	getIsTestDose()	Identifies dose type.
java.lang.String	toString()	String representation of Dose.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

dateTimeTakeDose

private java.time.LocalDateTime dateTimeTakeDose

Keep time when dose is taken. Default: current time.

amountDose

private java.lang.Double amountDose

Amount of dose. Default: 1.

isTestDose

private java.lang.Boolean isTestDose

Defines whether dose is a test dose Default: false.

Constructor Detail

Dose

public Dose()

Method Detail

createDose

Description copied from interface: IDose

Creates a Dose instance

Specified by:

createDose in interface IDose

Parameters:

dateTimeTakeDose - Date and time when dose is taken.

amountDose - Amount of dose taken.

isTestDose - Defines whether the dose is a test dose.

getAmountDose

public java.lang.Double getAmountDose()

Description copied from interface: IDose

Concentration amount of the dose taken by patient.

Specified by:

getAmountDose in interface IDose

Returns:

Concentration amount of Dose.

getDateTimeTakeDose

public java.time.LocalDateTime getDateTimeTakeDose()

Description copied from interface: IDose

Time when the dose is taken by patient.

Specified by:

getDateTimeTakeDose in interface IDose

Returns:

LocalTime Time of Dose.

toString

public java.lang.String toString()

Description copied from interface: IDose

String representation of Dose.

Specified by:

toString in interface IDose

Overrides:

toString in class java.lang.Object

Returns:

Dose type, dose amount, and dose taken time.

getIsTestDose

public boolean getIsTestDose()

Description copied from interface: IDose

Identifies dose type.

Specified by:

getIsTestDose in interface IDose

Returns:

True = TestDose (what-if dose); False = Dose (actual dose);

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package Model

Interface IDose

All Known Implementing Classes:

Dose

public interface IDose

Method Summary

All Methods Instance M	ethods	Abstract Methods		
Modifier and Type	Metho	d		Description
void		ceDose(java.time.LocalD amount, java.lang.Boolea	ateTime dateTimeTakeDose, n isTestDose)	Creates a Dose instance
java.lang.Double	getAn	nountDose()		Concentration amount of the dose taken by patient.
java.time.LocalDateTim	e getD a	ateTimeTakeDose()		Time when the dose is taken by patient.
boolean	getIs	sTestDose()		Identifies dose type.
java.lang.String	toStı	ring()		String representation of Dose.

Method Detail

createDose

void createDose(java.time.LocalDateTime dateTimeTakeDose,

double amount, java.lang.Boolean isTestDose)

Creates a Dose instance

Parameters:

dateTimeTakeDose - Date and time when dose is taken.

amount - Amount of dose taken.

isTestDose - Defines whether the dose is a test dose.

getDateTimeTakeDose

java.time.LocalDateTime getDateTimeTakeDose()

Time when the dose is taken by patient.

Returns:

LocalTime Time of Dose.

getAmountDose

java.lang.Double getAmountDose()

Concentration amount of the dose taken by patient.

Returns:

Concentration amount of Dose.

toString

java.lang.String toString()

String representation of Dose.

Overrides:

toString in class java.lang.Object

Returns:

Dose type, dose amount, and dose taken time.

getIsTestDose

boolean getIsTestDose()

Identifies dose type.

Returns:

True = TestDose (what-if dose); False = Dose (actual dose);

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package Model

Class Medicine

java.lang.Object Model.Medicine

All Implemented Interfaces:

java.io.Serializable, IMedicine

public class Medicine
extends java.lang.Object
implements java.io.Serializable, IMedicine

See Also:

Serialized Form

Field Summary

Fields

Modifier and Type	Field	Description
<pre>private java.util.ArrayList<idose></idose></pre>	doses	Array of doses
private java.lang.String	nameMedicine	Medicine name
private java.time.LocalTime	timeHalfLifeMedicine	Medicine half life Time it takes for the concentration to be reduced by half of its amount.
private java.time.LocalTime	timeMaxMedicine	Medicine tMax Time when the concentration will be at its peak.

Constructor Summary

Constructors

Constructor Description

Method Summary

All Methods Instance Method	S Concrete Methods	
Modifier and Type	Method	Description
void	addDose(java.time.LocalDateTime dateTimeTakeDose, double amount, java.lang.Boolean isTestDose)	Add a Dose to doses array.
void	createMedicine(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)	Creates a Medicine instance.
java.util.ArrayList< IDose >	getDoses()	Corresponds to all existing doses.
java.lang.String	getNameMedicine()	Name of medicine.
java.time.LocalTime	getTimeHalfLifeMedicine()	Half life time of the medicine.
java.time.LocalTime	<pre>getTimeMaxMedicine()</pre>	Tmax of medicine
void	removeAllDoses()	Removes all doses from the doses array in the medicine.
void	removeDose(int index)	Remove a dose by its index.
void	removeTestDoses()	Remove all test doses from the doses array.
java.lang.String	toString()	String representation of Medicine.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

Medicine name timeMaxMedicine private java.time.LocalTime timeMaxMedicine Medicine tMax Time when the concentration will be at its peak. timeHalfLifeMedicine private java.time.LocalTime timeHalfLifeMedicine Medicine half life Time it takes for the concentration to be reduced by half of its amount. doses private java.util.ArrayList <idose> doses Array of doses Constructor Detail Medicine public Medicine()</idose>	nameMedicine
timeMaxMedicine private java.time.LocalTime timeMaxMedicine Medicine tMax Time when the concentration will be at its peak. timeHalfLifeMedicine private java.time.LocalTime timeHalfLifeMedicine Medicine half life Time it takes for the concentration to be reduced by half of its amount. doses private java.util.ArrayList <idose> doses Array of doses Constructor Detail Medicine public Medicine()</idose>	private java.lang.String nameMedicine
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Medicine public Medicine()	Array of doses
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public Medicine()	Constructor Detail
public Medicine()	Medicine
	public Medicine()
Nother Date:	public Medicine()
Nother Date:	
/PINOO DEGII	Method Detail

createMedicine

public void createMedicine(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)

Description copied from interface: IMedicine

Creates a Medicine instance.

Specified by:

createMedicine in interface IMedicine

Parameters:

nameMedicine - Name of medicine.

timeMaxMedicine - Time required for medicine to be at its peak concentration.

timeHalfLifeMedicine - Time required for medicine to decrease by half.

getNameMedicine

public java.lang.String getNameMedicine()

Description copied from interface: IMedicine

Name of medicine.

Specified by:

getNameMedicine in interface IMedicine

Returns:

Name of the medicine.

getTimeHalfLifeMedicine

public java.time.LocalTime getTimeHalfLifeMedicine()

Description copied from interface: IMedicine

Half life time of the medicine.

Specified by:

getTimeHalfLifeMedicine in interface IMedicine

Returns:

Half life time of the medicine.

getDoses

public java.util.ArrayList<IDose> getDoses()

Description copied from interface: IMedicine

Corresponds to all existing doses. Includes type Dose and TestDose.

Specified by:

getDoses in interface IMedicine

Returns:

An array containing all doses.

getTimeMaxMedicine

public java.time.LocalTime getTimeMaxMedicine()

Description copied from interface: IMedicine

Tmax of medicine

Specified by:

getTimeMaxMedicine in interface IMedicine

Returns:

TMax of the medicine.

addDose

public void addDose(java.time.LocalDateTime dateTimeTakeDose,

double amount,

java.lang.Boolean isTestDose)

Description copied from interface: IMedicine

Add a Dose to doses array.

Specified by:

addDose in interface IMedicine

Parameters:

dateTimeTakeDose - Time dose is taken.

amount - Amount of dose.

isTestDose - defines whether is test dose.

removeAllDoses

public void removeAllDoses()

Description copied from interface: IMedicine

Removes all doses from the doses array in the medicine.

Specified by:

removeAllDoses in interface IMedicine

removeDose

public void removeDose(int index)

Description copied from interface: IMedicine

Remove a dose by its index.

Specified by:

removeDose in interface IMedicine

Parameters:

index - index of dose.

toString

public java.lang.String toString()

Description copied from interface: IMedicine

String representation of Medicine.

Specified by:

toString in interface IMedicine

Overrides:

toString in class java.lang.Object

Returns:

String medicine name, time max, and half life.

removeTestDoses

public void removeTestDoses()

Description copied from interface: IMedicine

Remove all test doses from the doses array.

Specified by:

removeTestDoses in interface IMedicine

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

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SEARCH: Q

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package Model

Interface IMedicine

All Known Implementing Classes:

Medicine

public interface IMedicine

Method Summary

All Methods Instance Method	s Abstract Methods	
Modifier and Type	Method	Description
void	addDose(java.time.LocalDateTime dateTimeTakeDose, double amount, java.lang.Boolean isTestDose)	Add a Dose to doses array.
void	createMedicine(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)	Creates a Medicine instance.
java.util.ArrayList< IDose >	getDoses()	Corresponds to all existing doses.
java.lang.String	getNameMedicine()	Name of medicine.
java.time.LocalTime	<pre>getTimeHalfLifeMedicine()</pre>	Half life time of the medicine.
java.time.LocalTime	<pre>getTimeMaxMedicine()</pre>	Tmax of medicine
void	removeAllDoses()	Removes all doses from the doses array in the medicine.
void	removeDose(int index)	Remove a dose by its index.
void	removeTestDoses()	Remove all test doses from the doses

java.lang.String toString()

String
representation of
Medicine.

Method Detail

getNameMedicine

java.lang.String getNameMedicine()

Name of medicine.

Returns:

Name of the medicine.

getTimeHalfLifeMedicine

java.time.LocalTime getTimeHalfLifeMedicine()

Half life time of the medicine.

Returns:

Half life time of the medicine.

getTimeMaxMedicine

java.time.LocalTime getTimeMaxMedicine()

Tmax of medicine

Returns:

TMax of the medicine.

getDoses

java.util.ArrayList<IDose> getDoses()

Corresponds to all existing doses. Includes type Dose and TestDose.

Returns:

An array containing all doses.

createMedicine

void createMedicine(java.lang.String nameMedicine, java.time.LocalTime timeMaxMedicine, java.time.LocalTime timeHalfLifeMedicine)

Creates a Medicine instance.

Parameters:

nameMedicine - Name of medicine.

timeMaxMedicine - Time required for medicine to be at its peak concentration.

timeHalfLifeMedicine - Time required for medicine to decrease by half.

addDose

Add a Dose to doses array.

Parameters:

dateTimeTakeDose - Time dose is taken.

amount - Amount of dose.

isTestDose - defines whether is test dose.

removeAllDoses

void removeAllDoses()

Removes all doses from the doses array in the medicine.

removeDose

void removeDose(int index)

Remove a dose by its index.

Parameters:

index - index of dose.

removeTestDoses

void removeTestDoses()

Remove all test doses from the doses array.

toString

java.lang.String toString()

String representation of Medicine.

Overrides:

toString in class java.lang.Object

Returns:

String medicine name, time max, and half life.

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Package View

Class View

java.lang.Object View.View

public class View extends java.lang.Object

Field Summary

Fields

Modifier and Type	Field	Description
private static Controller	controller	
static java.util.Scanner	userInput	Read from user input

Constructor Summary

Constructors

Description Constructor

View()

Method Summary

All Methods Static Methods	Concrete Methods	
Modifier and Type	Method	Descri
private static void	addDose(boolean isTest)	Create from u input.
private static void	clear()	Clears conso screer

private static java.time.LocalDate	createLocalDate()	Creates LocalDate from user input.
private static java.time.LocalTime	createLocalTime()	Creates LocalTime instance from user input.
private static void	<pre>createNewFile()</pre>	Creates a Medicine instance from user input.
static void	main(java.lang.String[] args)	
static void	pause()	Pause scrolling fot the console screen until user hits the Enter key.
private static void	<pre>printConcentrationAtTime(java.time.LocalDateTime dateTime)</pre>	Prints concentration amount at specific time.
private static void	<pre>printDoses()</pre>	Prints Dose index, time taken, and quantity.
private static void	<pre>printMedicine()</pre>	Prints Medicine name, time max, and half life.
private static void	<pre>printPeakLevelAt(java.lang.Boolean includeTestDoses)</pre>	Prints peak level of concentration.
private static void	<pre>printWhenToDose(double amountDose)</pre>	Prints time when to dose to obtain specified dose amount.
private static void	removeDose()	Removes dose using an index selected by the user.
private static void	selectAction()	Display the list of actions

		that can be performed by the application.
private static void	start()	Display a welcome screen which allows the user to select whether to create a file or open an existing one.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

userInput

public static java.util.Scanner userInput

Read from user input

controller

private static Controller controller

Constructor Detail

View

public View()

Method Detail

printDoses private static void printDoses() Prints Dose index, time taken, and quantity. printMedicine private static void printMedicine() Prints Medicine name, time max, and half life. printConcentrationAtTime private static void printConcentrationAtTime(java.time.LocalDateTime dateTime) Prints concentration amount at specific time. Parameters: $\verb|dateTime| - Specific time| to calculate concentration| amount.$ createLocalDate private static java.time.LocalDate createLocalDate() Creates LocalDate from user input. Returns: LocalDate instance. createLocalTime private static java.time.LocalTime createLocalTime() Creates LocalTime instance from user input. Returns: Localtime instance. createNewFile

private static void createNewFile()

Creates a Medicine instance from user input.
addDose
private static void addDose(boolean isTest)
Creates Dose from user input.
Parameters:
isTest - Defines whether is a test dose.
removeDose
private static void removeDose()
Removes dose using an index selected by the user.
printPeakLevelAt
private static void printPeakLevelAt(java.lang.Boolean includeTestDoses)
Prints peak level of concentration. The output can be test Doses and actual Doses, or actual Doses only.
Parameters:
includeTestDoses - Define whether to consider test doses.
printWhenToDose
private static void printWhenToDose(double amountDose)
Prints time when to dose to obtain specified dose amount.
Parameters:
amountDose - Dose amount.
clear
private static void clear()
Clears the console screen.

pause

public static void pause()

Pause scrolling fot the console screen until user hits the Enter key.

start

private static void start()

Display a welcome screen which allows the user to select whether to create a file or open an existing one.

selectAction

private static void selectAction()

Display the list of actions that can be performed by the application. The user must enter the corresponding number to execute the controller.

main

public static void main(java.lang.String[] args)

OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

C

clear() - Static method in class View. View

Clears the console screen.

controller - Static variable in class View. View

Controller - package Controller

Controller - Class in Controller

Controller() - Constructor for class Controller.Controller

createDose(LocalDateTime, double, Boolean) - Method in class Model.Dose

createDose(LocalDateTime, double, Boolean) - Method in interface Model.IDose

Creates a Dose instance

createLocalDate() - Static method in class View. View

Creates LocalDate from user input.

createLocalDate(String) - Method in class Controller.Controller

createLocalDate(String) - Method in interface Controller.lController

Creates a LocalDate instance by parsing a String.

createLocalTime() - Static method in class View.View

Creates LocalTime instance from user input.

createLocalTime(String) - Method in class Controller.Controller

createLocalTime(String) - Method in interface Controller.IController

Creates a LocalTime instance by parsing a String.

createMedicine(String, LocalTime, LocalTime) - Method in interface Model.IMedicine

Creates a Medicine instance.

createMedicine(String, LocalTime, LocalTime) - Method in class Model.Medicine

createNewFile() - Static method in class View.View

Creates a Medicine instance from user input.

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D

 ${\bf date Time Take Dose} \ - \ {\bf Variable} \ in \ class \ Model. Dose$

Keep time when dose is taken.

Dose - Class in Model

Dose() - Constructor for class Model.Dose

doses - Variable in class Model.Medicine Array of doses

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OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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G

getAmountDose() - Method in class Model.Dose

getAmountDose() - Method in interface Model.IDose

Concentration amount of the dose taken by patient.

getConcentrationAtTime(IDose, LocalDateTime) - Method in class Controller.Controller

getConcentrationAtTime(IDose, LocalDateTime) - Method in interface Controller.IController

Calculate concentration amount at specified time.

getDateTimeTakeDose() - Method in class Model.Dose

getDateTimeTakeDose() - Method in interface Model.IDose

Time when the dose is taken by patient.

getDoses() - Method in interface Model. IMedicine

Corresponds to all existing doses.

getDoses() - Method in class Model. Medicine

getIsTestDose() - Method in class Model.Dose

getIsTestDose() - Method in interface Model.IDose

Identifies dose type.

getMedicine() - Method in class Controller.Controller

getMedicine() - Method in interface Controller.IController

Retrieves the Medicine instance.

getNameMedicine() - Method in interface Model.IMedicine

Name of medicine.

getNameMedicine() - Method in class Model. Medicine

getPeakLevel(IDose) - Method in class Controller.Controller

getPeakLevel(IDose) - Method in interface Controller.IController

Calculates when Dose is going to reach its peak level of concentration.

getSumConcentrationsAtTime(LocalDateTime) - Method in class Controller.Controller

getSumConcentrationsAtTime(LocalDateTime) - Method in interface Controller.lController

Sums all dose amount at a time specified by the user

getTimeHalfLifeMedicine() - Method in interface Model.IMedicine

Half life time of the medicine.

getTimeHalfLifeMedicine() - Method in class Model.Medicine

getTimeMaxMedicine() - Method in interface Model.IMedicine

Tmax of medicine

getTimeMaxMedicine() - Method in class Model.Medicine

getWhenToDose(IDose, double) - Method in class Controller.Controller

getWhenToDose(IDose, double) - Method in interface Controller.IController Calculates when to give next dose to reach a certain concentration amount.

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OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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IController - Interface in Controller

IDose - Interface in Model

IMedicine - Interface in Model

isTestDose - Variable in class Model.Dose

Defines whether dose is a test dose Default: false.

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OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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L

loadFile(String) - Method in class Controller.Controller

loadFile(String) - Method in interface Controller.lController Load a saved Medicine file.

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OVERVIEW PACKAGE CLASS TREE DEPRECATED INDEX HELP

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M

main(String[]) - Static method in class View.View

medicine - Variable in class Controller.Controller

Medicine file

Medicine - Class in Model

Medicine() - Constructor for class Model. Medicine

Model - package Model

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N

nameMedicine - Variable in class Model.Medicine

Medicine name

newFile(String, LocalTime, LocalTime) - Method in class Controller.Controller

newFile(String, LocalTime, LocalTime) - Method in interface Controller.lController Create a new Medicine instance.

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P

parseValidAmount() - Static method in class Controller.Controller

Verifies if parsed input is a valid number amount.

parseValidInt() - Static method in class Controller.Controller

Verifies if parsed input is a valid integer.

pause() - Static method in class View. View

Pause scrolling fot the console screen until user hits the Enter key.

printConcentrationAtTime(LocalDateTime) - Static method in class View.View

Prints concentration amount at specific time.

printDoses() - Static method in class View. View

Prints Dose index, time taken, and quantity.

printMedicine() - Static method in class View.View

Prints Medicine name, time max, and half life.

printPeakLevelAt(Boolean) - Static method in class View. View

Prints peak level of concentration.

printWhenToDose(double) - Static method in class View.View

Prints time when to dose to obtain specified dose amount.

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R

removeAllDoses() - Method in class Controller.Controller

removeAllDoses() - Method in interface Controller. IController Delete all doses from the dosages array.

removeAllDoses() - Method in interface Model.IMedicine Removes all doses from the doses array in the medicine.

removeAllDoses() - Method in class Model. Medicine

removeDose() - Static method in class View. View

Removes dose using an index selected by the user.

removeDose(int) - Method in class Controller.Controller

removeDose(int) - Method in interface Controller.IController

Remove a dose by its index.

removeDose(int) - Method in interface Model.IMedicine

Remove a dose by its index.

removeDose(int) - Method in class Model.Medicine

removeTestDoses() - Method in class Controller.Controller

removeTestDoses() - Method in interface Controller.IController

Removes all test doses.

removeTestDoses() - Method in interface Model.IMedicine

Remove all test doses from the doses array.

removeTestDoses() - Method in class Model.Medicine

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S

saveFile(String) - Method in class Controller.Controller

saveFile(String) - Method in interface Controller.IController

Save Medicine to a file.

selectAction() - Static method in class View.View

Display the list of actions that can be performed by the application.

start() - Static method in class View. View

Display a welcome screen which allows the user to select whether to create a file or open an existing one.

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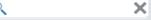
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Т

timeHalfLifeMedicine - Variable in class Model.Medicine

Medicine half life Time it takes for the concentration to be reduced by half of its amount.

timeMaxMedicine - Variable in class Model.Medicine

Medicine tMax Time when the concentration will be at its peak.

timezone - Variable in class Controller.Controller

Defines time zone.

toString() - Method in class Model.Dose

toString() - Method in interface Model.IDose

String representation of Dose.

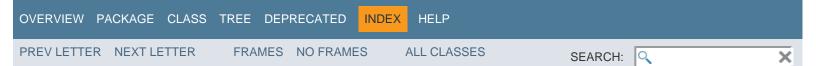
toString() - Method in interface Model.IMedicine

String representation of Medicine.

toString() - Method in class Model.Medicine

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U

userInput - Static variable in class View.View Read from user input

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V

View - package View

View - Class in View

View() - Constructor for class View. View

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Constant Field Values

Contents

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Serialized Form

Package Model

Class Model.Dose extends java.lang.Object implements Serializable

Serialized Fields

amountDose

java.lang.Double amountDose

Amount of dose. Default: 1.

dateTimeTakeDose

java.time.LocalDateTime dateTimeTakeDose

Keep time when dose is taken. Default: current time.

isTestDose

java.lang.Boolean isTestDose

Defines whether dose is a test dose Default: false.

Class Model. Medicine extends java. lang. Object implements Serializable

Serialized Fields

doses

java.util.ArrayList<E extends java.lang.Object> doses

Array of doses

nameMedicine

java.lang.String nameMedicine

Medicine name

timeHalfLifeMedicine

java.time.LocalTime timeHalfLifeMedicine

Medicine half life Time it takes for the concentration to be reduced by half of its amount.

timeMaxMedicine

java.time.LocalTime timeMaxMedicine

Medicine tMax Time when the concentration will be at its peak.

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