My Project

1.01

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Chapter 2

Class Index

2.1 Class List

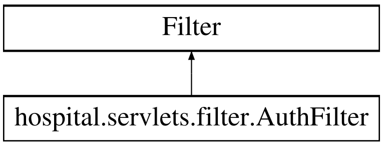
Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 3

Class Documentation

3.1 hospital.servlets.filter.AuthFilter Class Reference

Inheritance diagram for hospital.servlets.filter.AuthFilter:



Public Member Functions

- AuthFilter ()
- AuthFilter (DAOFactory daoFactory)
- void init (FilterConfig filterConfig) throws ServletException
- void doFilter (ServletRequest request, ServletResponse response, FilterChain chain) throws IOException, ServletException
- void destroy ()

3.1.1 Detailed Description

Class, which represents authentication filter.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.1.2 Constructor & Destructor Documentation

3.1.2.1 AuthFilter() [1/2]

```
hospital.servlets.filter.AuthFilter.AuthFilter ( )
```

Constructor for creating new object

See also

AuthFilter(DAOFactory)

3.1.2.2 AuthFilter() [2/2]

```
hospital.servlets.filter.AuthFilter.AuthFilter (
             DAOFactory daoFactory )
```

Constructor for creating new object

See also

AuthFilter()

3.1.3 Member Function Documentation

3.1.3.1 destroy()

```
void hospital.servlets.filter.AuthFilter.destroy ( )
```

On case of calling this method, doFilter method will not perform again on current instance

3.1.3.2 doFilter()

```
void hospital.servlets.filter.AuthFilter.doFilter (
             ServletRequest request,
             ServletResponse response,
             FilterChain chain ) throws IOException, ServletException
```

Method which perfoms filtering

Parameters

request	HttpRequest
response	HttpResponse
chain	FilterChain instance

Exceptions

IOException	on error of performing filtering
ServletException	on servlet error

3.1.3.3 init()

```
void hospital.servlets.filter.AuthFilter.init (
            FilterConfig filterConfig ) throws ServletException
```

Init filter method

Parameters

filterConfig	filter config

Exceptions

ServletException	on servlet error

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/filter/AuthFilter.java

3.2 hospital.utils.factories.CommandFactory Class Reference

Static Public Member Functions

- static ServletCommand createCommand (String url)

3.2.1 Detailed Description

Class, which represents factory of commands.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.2.2 Member Function Documentation

3.2.2.1 createCommand()

```
static ServletCommand hospital.utils.factories.CommandFactory.createCommand (
             String url )  [static]
```

Method which creates command, based on incoming url

Parameters

url	incoming url

Returns

created command to perform

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/factories/CommandFactory.java

3.3 hospital.utils.ConnectionPool Class Reference

Static Public Member Functions

- static Connection getConnection () throws SQLException

Static Public Attributes

- static final String USER = "root"
- static final String PASSWORD = "root"
- static final String URL = "jdbc:mysql://localhost:3306/hospitaldb?useSSL=false&serverTimezone=UTC"

3.3.1 Detailed Description

Class, which represents connection pool

Author

Yelyzaveta Onyshchenko

Version

1.01

3.3.2 Member Function Documentation

3.3.2.1 getConnection()

```
static Connection hospital.utils.ConnectionPool.getConnection ( ) throws SQLException  [static]
```

Method for getting connection

Returns

connection to database

Exceptions

SQLException	SQLException

3.3.3 Member Data Documentation

3.3.3.1 PASSWORD

```
final String hospital.utils.ConnectionPool.PASSWORD = "root"  [static]
```

MySQl user's password

3.3.3.2 URL

```
final String hospital.utils.ConnectionPool.URL = "jdbc:mysql://localhost:3306/hospitaldb?use←↩
SSL=false&serverTimezone=UTC"  [static]
```

Url for accessing the database

3.3.3.3 USER

```
final String hospital.utils.ConnectionPool.USER = "root"  [static]
```

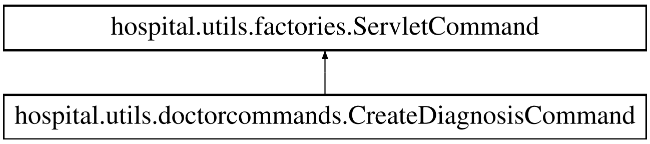
MySQl user's name

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/ConnectionPool.java

3.4 hospital.utils.doctorcommands.CreateDiagnosisCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.CreateDiagnosisCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.CreateDiagnosisCommand

Public Member Functions

- CreateDiagnosisCommand ()
- CreateDiagnosisCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.4.1 Detailed Description

Class, which represents creating of the diagnosis command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.4.2 Constructor & Destructor Documentation

3.4.2.1 CreateDiagnosisCommand() [1/2]

```
hospital.utils.doctorcommands.CreateDiagnosisCommand.CreateDiagnosisCommand ( )
```

Constructor for creating new object

See also

CreateDiagnosisCommand(DAOFactory)

3.4.2.2 CreateDiagnosisCommand() [2/2]

```
hospital.utils.doctorcommands.CreateDiagnosisCommand.CreateDiagnosisCommand (
            DAOFactory factory )
```

Constructor for creating new object,used for testing

See also

CreateDiagnosisCommand()

3.4.3 Member Function Documentation

3.4.3.1 execute()

```
void hospital.utils.doctorcommands.CreateDiagnosisCommand.execute (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

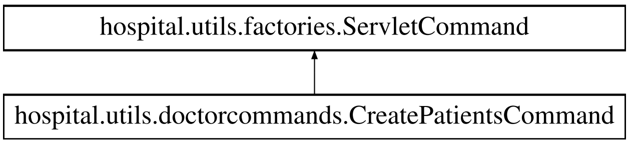
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/CreateDiagnosisCommand.↩ java

3.5 hospital.utils.doctorcommands.CreatePatientsCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.CreatePatientsCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.CreatePatientsCommand

Public Member Functions

- CreatePatientsCommand ()
- CreatePatientsCommand (RandomPatient randomPatient)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO←Exception

3.5.1 Detailed Description

Class, which represents creating of the patient command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.5.2 Constructor & Destructor Documentation

3.5.2.1 CreatePatientsCommand() [1/2]

```
hospital.utils.doctorcommands.CreatePatientsCommand.CreatePatientsCommand ( )
```

Constructor for creating new object

See also

CreatePatientsCommand(RandomPatient)

3.5.2.2 CreatePatientsCommand() [2/2]

```
hospital.utils.doctorcommands.CreatePatientsCommand.CreatePatientsCommand (
            RandomPatient randomPatient )
```

Constructor for creating new object

See also

CreatePatientsCommand()

3.5.3 Member Function Documentation

3.5.3.1 execute()

```
void hospital.utils.doctorcommands.CreatePatientsCommand.execute (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

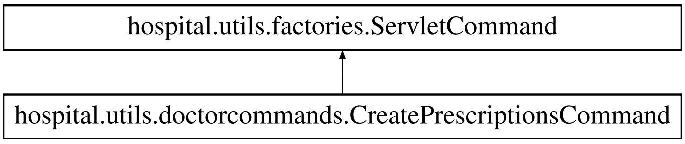
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/CreatePatientsCommand.java

3.6 hospital.utils.doctorcommands.CreatePrescriptionsCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.CreatePrescriptionsCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.CreatePrescriptionsCommand

Public Member Functions

- CreatePrescriptionsCommand ()
- CreatePrescriptionsCommand (DAOFactory daoFactory, PatientDataManipulations patientDataManipulations)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↵ Exception

3.6.1 Detailed Description

Class, which represents creating of prescriptions command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.6.2 Constructor & Destructor Documentation

3.6.2.1 CreatePrescriptionsCommand() [1/2]

```
hospital.utils.doctorcommands.CreatePrescriptionsCommand.CreatePrescriptionsCommand ( )
```

Constructor for creating new object

See also

CreatePrescriptionsCommand(DAOFactory)

3.6.2.2 CreatePrescriptionsCommand() [2/2]

```
hospital.utils.doctorcommands.CreatePrescriptionsCommand.CreatePrescriptionsCommand (
             DAOFactory daoFactory,
             PatientDataManipulations patientDataManipulations )
```

Constructor for creating new object,used for testing

See also

CreatePrescriptionsCommand()

3.6.3 Member Function Documentation

3.6.3.1 execute()

```
void hospital.utils.doctorcommands.CreatePrescriptionsCommand.execute (
             HttpServletRequest request,
             HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

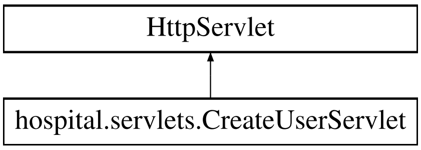
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/CreatePrescriptionsCommand.↩ java

3.7 hospital.servlets.CreateUserServlet Class Reference

Inheritance diagram for hospital.servlets.CreateUserServlet:



Public Member Functions

- CreateUserServlet ()
- CreateUserServlet (DAOFactory daoFactory, PatientDataManipulations patientDataManipulations2)

Static Public Member Functions

- static boolean inputValidator (String name, String surname, String email, String password)

Protected Member Functions

- void doGet (HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
- void doPost (HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

3.7.1 Detailed Description

Class, which represents servlet for creating new user.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.7.2 Constructor & Destructor Documentation

3.7.2.1 CreateUserServlet() [1/2]

```
hospital.servlets.CreateUserServlet.CreateUserServlet ( )
```

Constructor for creating new object

See also

CreateUserServlet(DAOFactory,PatientDataManipulations)

3.7.2.2 CreateUserServlet() [2/2]

```
hospital.servlets.CreateUserServlet.CreateUserServlet (
            DAOFactory daoFactory,
            PatientDataManipulations patientDataManipulations2 )
```

Constructor for creating new object

See also

CreateUserServlet()

3.7.3 Member Function Documentation

3.7.3.1 doGet()

```
void hospital.servlets.CreateUserServlet.doGet (
            HttpServletRequest req,
            HttpServletResponse resp ) throws ServletException, IOException  [protected]
```

Method performing HHTP GET request

Parameters

req	HttpRequest
resp	HttpResponse

Exceptions

ServletException	On servlet error
IOException	On error fulfilling the request

3.7.3.2 doPost()

```
void hospital.servlets.CreateUserServlet.doPost (
             HttpServletRequest req,
             HttpServletResponse resp ) throws ServletException, IOException  [protected]
```

Method performing HHTP POST request

Parameters

req	HttpRequest
resp	HttpResponse

Exceptions

ServletException	On servlet error
IOException	On error fulfilling the request

3.7.3.3 inputValidator()

```
static boolean hospital.servlets.CreateUserServlet.inputValidator (
             String name,
             String surname,
             String email,
             String password )  [static]
```

Method for validating input values using regular expressions

Parameters

name	name of the user to check
surname	surname of the user to check
email	email of the user to check
password	password of the user to check

Returns

true if data is valid,else - false

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/CreateUserServlet.java

3.8 hospital.utils.factories.DAOFactory Class Reference

Public Member Functions

- UserDAOImpl createUserDao ()
- PatientDataImpl createPatientDataDao ()
- PrescriptionDAOImpl createPrescriptionDao ()
- DiagnosisDAOImpl createDiagnosisDao ()
- RoleDAOImpl createRoleDao ()
- SingleTransaction createSingleTransaction ()

3.8.1 Detailed Description

Class, which represents DAO factory.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.8.2 Member Function Documentation

3.8.2.1 createDiagnosisDao()

```
DiagnosisDAOImpl hospital.utils.factories.DAOFactory.createDiagnosisDao ( )
```

Returns new diagnosis DAO.

Returns

new instance of diagnosisDAOImpl

3.8.2.2 createPatientDataDao()

```
PatientDataImpl hospital.utils.factories.DAOFactory.createPatientDataDao ( )
```

Returns new patient data DAO.

Returns

new instance of patientDataImpl

3.8.2.3 createPrescriptionDao()

```
PrescriptionDAOImpl hospital.utils.factories.DAOFactory.createPrescriptionDao ( )
```

Returns new prescription DAO.

Returns

new instance of prescriptionDAOImpl

3.8.2.4 createRoleDao()

```
RoleDAOImpl hospital.utils.factories.DAOFactory.createRoleDao ( )
```

Returns new role DAO.

Returns

new instance of roleDAOImpl

3.8.2.5 createSingleTransaction()

```
SingleTransaction hospital.utils.factories.DAOFactory.createSingleTransaction ( )
```

Returns new single transaction for medical prescriptions

Returns

new instance of SingleTransaction

3.8.2.6 createUserDao()

```
UserDAOImpl hospital.utils.factories.DAOFactory.createUserDao ( )
```

Returns new user DAO.

Returns

new instance of userDAOImpl

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/factories/DAOFactory.java

3.9 hospital.entity.diagnosis.Diagnosis Class Reference

Public Member Functions

- Diagnosis (int id, String name, String difficulty)
- int getId ()
- void setId (int id)
- String getName ()
- void setName (String name)
- String getDifficulty ()
- void setDifficulty (String difficulty)

Static Public Attributes

- static final String TABLE_NAME = "diagnosis_table"
- static final String ID_COLUMN = "id_diagnosis"
- static final String NAME_COLUMN = "diagnosis_name"
- static final String DIFFICULTY_COLUMN = "diagnosis_difficulty"

3.9.1 Detailed Description

Class, which represents diagnosis which can be established to the patient.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.9.2 Constructor & Destructor Documentation

3.9.2.1 Diagnosis()

```
hospital.entity.diagnosis.Diagnosis.Diagnosis (
                int id,
                String name,
                String difficulty )
```

Constructor for creating new object.

Parameters

id	corresponding id of the diagnosis
name	coresponding name of the diagnosis
difficulty	coresponding difficulty of the diagnosis

3.9.3 Member Function Documentation

3.9.3.1 getDifficulty()

```
String hospital.entity.diagnosis.Diagnosis.getDifficulty ( )
```

Method, which returns difficulty of the diagnosis

Returns

difficulty of the diagnosis

3.9.3.2 getId()

```
int hospital.entity.diagnosis.Diagnosis.getId ( )
```

Method, which returns id of the diagnosis

Returns

id of the diagnosis

3.9.3.3 getName()

```
String hospital.entity.diagnosis.Diagnosis.getName ( )
```

Method, which returns name of the diagnosis

Returns

name of the diagnosis

3.9.3.4 setDifficulty()

```
void hospital.entity.diagnosis.Diagnosis.setDifficulty (
             String difficulty )
```

Method, which sets difficulty of the diagnosis

Parameters

difficulty	corresponding difficulty of the diagnosis

3.9.3.5 setId()

```
void hospital.entity.diagnosis.Diagnosis.setId (
             int id )
```

Method,which sets id of the diagnosis

Parameters

id	corresponding id of the diagnosis

3.9.3.6 setName()

```
void hospital.entity.diagnosis.Diagnosis.setName (
             String name )
```

Method, which sets name of the diagnosis

Parameters

name	corresponding name of the diagnosis

3.9.4 Member Data Documentation

3.9.4.1 DIFFICULTY_COLUMN

```
final String hospital.entity.diagnosis.Diagnosis.DIFFICULTY_COLUMN = "diagnosis_difficulty"
[static]
```

The corresponding name of the "diagnosis difficulty" column in table name.

3.9.4.2 ID_COLUMN

```
final String hospital.entity.diagnosis.Diagnosis.ID_COLUMN = "id_diagnosis"  [static]
```

The corresponding name of the "id" column in table name.

3.9.4.3 NAME_COLUMN

```
final String hospital.entity.diagnosis.Diagnosis.NAME_COLUMN = "diagnosis_name"  [static]
```

The corresponding name of the "name" column in table name.

3.9.4.4 TABLE_NAME

```
final String hospital.entity.diagnosis.Diagnosis.TABLE_NAME = "diagnosis_table"  [static]
```

The corresponding name of table in database.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/entity/diagnosis/Diagnosis.java

3.10 hospital.dao.impl.DiagnosisDAOImpl Class Reference

Public Member Functions

- List< Diagnosis > findAll ()
- Diagnosis findById (int id)

3.10.1 Detailed Description

Class, which represents Diagnosis DAO

Author

Yelyzaveta Onyshchenko

Version

1.01

3.10.2 Member Function Documentation

3.10.2.1 findAll()

```
List<Diagnosis> hospital.dao.impl.DiagnosisDAOImpl.findAll ( )
```

Find all diagnoses

Returns

list of diagnoses

3.10.2.2 findById()

```
Diagnosis hospital.dao.impl.DiagnosisDAOImpl.findById (
             int id )
```

Find diagnosis by id

Returns

corresponding diagnosis

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/dao/impl/DiagnosisDAOImpl.java

3.11 hospital.utils.queries.DiagnosisQueries Interface Reference

Static Public Attributes

- static final String FIND_ALL = "select ∗ from " + Diagnosis.TABLE_NAME
- static final String FIND_BY_ID = FIND_ALL + " where " + Diagnosis.ID_COLUMN + " = ?"

3.11.1 Detailed Description

Basic queries for diagnosis table.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.11.2 Member Data Documentation

3.11.2.1 FIND_ALL

```
final String hospital.utils.queries.DiagnosisQueries.FIND_ALL = "select * from " + Diagnosis.↩
TABLE_NAME  [static]
```

SELECT ∗ FROM diagnosis_table;

3.11.2.2 FIND_BY_ID

```
final String hospital.utils.queries.DiagnosisQueries.FIND_BY_ID = FIND_ALL + " where " + Diagnosis.↩
ID_COLUMN + " = ?"  [static]
```

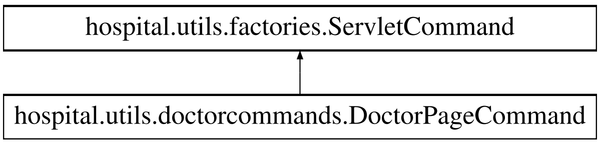
SELECT ∗ FROM diagnosis_table WHERE id_diagnosis = ?;

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/queries/DiagnosisQueries.java

3.12 hospital.utils.doctorcommands.DoctorPageCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.DoctorPageCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.DoctorPageCommand

Public Member Functions

- DoctorPageCommand ()
- DoctorPageCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.12.1 Detailed Description

Class, which represents doctor page command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.12.2 Constructor & Destructor Documentation

3.12.2.1 DoctorPageCommand() [1/2]

```
hospital.utils.doctorcommands.DoctorPageCommand.DoctorPageCommand ( )
```

Constructor for creating new object

See also

DoctorPageCommand(DAOFactory)

3.12.2.2 DoctorPageCommand() [2/2]

```
hospital.utils.doctorcommands.DoctorPageCommand.DoctorPageCommand (
             DAOFactory factory )
```

Constructor for creating new object

See also

DoctorPageCommand()

3.12.3 Member Function Documentation

3.12.3.1 execute()

```
void hospital.utils.doctorcommands.DoctorPageCommand.execute (
             HttpServletRequest request,
             HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

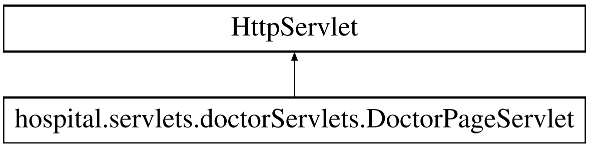
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/DoctorPageCommand.java

3.13 hospital.servlets.doctorServlets.DoctorPageServlet Class Reference

Inheritance diagram for hospital.servlets.doctorServlets.DoctorPageServlet:



Protected Member Functions

- void doPost (HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

3.13.1 Detailed Description

Class, which represents doctor page servlet.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.13.2 Member Function Documentation

3.13.2.1 doPost()

```
void hospital.servlets.doctorServlets.DoctorPageServlet.doPost (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException  [protected]
```

Method performing HHTP POST request

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

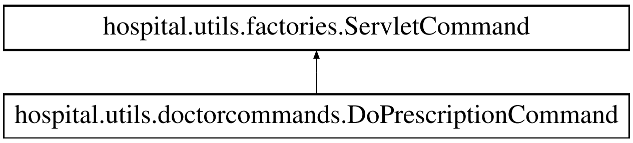
ServletException	On servlet error
IOException	On error fulfilling the request

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/doctorServlets/DoctorPageServlet.java

3.14 hospital.utils.doctorcommands.DoPrescriptionCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.DoPrescriptionCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.DoPrescriptionCommand

Public Member Functions

- DoPrescriptionCommand ()
- DoPrescriptionCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.14.1 Detailed Description

Class, which represents performing of the diagnosis command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.14.2 Constructor & Destructor Documentation

3.14.2.1 DoPrescriptionCommand() [1/2]

```
hospital.utils.doctorcommands.DoPrescriptionCommand.DoPrescriptionCommand ( )
```

Constructor for creating new object

See also

DoPrescriptionCommand(DAOFactory)

3.14.2.2 DoPrescriptionCommand() [2/2]

```
hospital.utils.doctorcommands.DoPrescriptionCommand.DoPrescriptionCommand (
            DAOFactory factory )
```

Constructor for creating new object

See also

DoPrescriptionCommand()

3.14.3 Member Function Documentation

3.14.3.1 execute()

```
void hospital.utils.doctorcommands.DoPrescriptionCommand.execute (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/DoPrescriptionCommand.java

3.15 hospital.utils.InputDataCheck Class Reference

Static Public Member Functions

- static boolean inputCheck (String input, String regex)

3.15.1 Detailed Description

Class for checking input data

Author

Yelyzaveta Onyshchenko

Version

1.01

3.15.2 Member Function Documentation

3.15.2.1 inputCheck()

```
static boolean hospital.utils.InputDataCheck.inputCheck (
             String input,
             String regex )  [static]
```

Method which compares input string with regular expressin

Parameters

input	input string
regex	regular expression

Returns

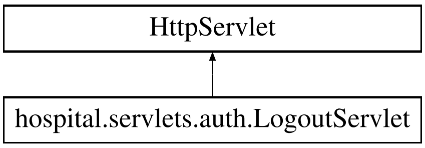
result of string comparison

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/InputDataCheck.java

3.16 hospital.servlets.auth.LogoutServlet Class Reference

Inheritance diagram for hospital.servlets.auth.LogoutServlet:



Protected Member Functions

- void doGet (HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException

3.16.1 Detailed Description

Class, which represents log out servlet.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.16.2 Member Function Documentation

3.16.2.1 doGet()

```
void hospital.servlets.auth.LogoutServlet.doGet (
            HttpServletRequest req,
            HttpServletResponse resp ) throws ServletException, IOException  [protected]
```

Method performing HTTP GET request

Parameters

req	HttpRequest
resp	HttpResponse

Exceptions

ServletException	On servlet error

Exceptions

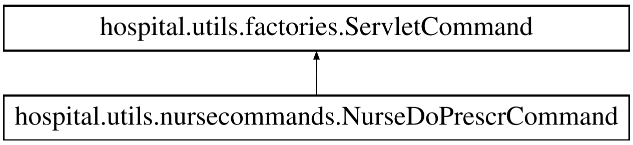
IOException	On error fulfilling the request

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/auth/LogoutServlet.java

3.17 hospital.utils.nursecommands.NurseDoPrescrCommand Class Reference

Inheritance diagram for hospital.utils.nursecommands.NurseDoPrescrCommand:


hospital.utils.factories.ServletCommand
hospital.utils.nursecommands.NurseDoPrescrCommand

Public Member Functions

- NurseDoPrescrCommand ()
- NurseDoPrescrCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.17.1 Detailed Description

Class, which represents performing of the diagnosis command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.17.2 Constructor & Destructor Documentation

3.17.2.1 NurseDoPrescrCommand() [1/2]

```
hospital.utils.nursecommands.NurseDoPrescrCommand.NurseDoPrescrCommand ( )
```

Constructor for creating new object

See also

NurseDoPrescrCommand(DAOFactory)

3.17.2.2 NurseDoPrescrCommand() [2/2]

```
hospital.utils.nursecommands.NurseDoPrescrCommand.NurseDoPrescrCommand (
             DAOFactory factory )
```

Constructor for creating new object

See also

NurseDoPrescrCommand()

3.17.3 Member Function Documentation

3.17.3.1 execute()

```
void hospital.utils.nursecommands.NurseDoPrescrCommand.execute (
             HttpServletRequest request,
             HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

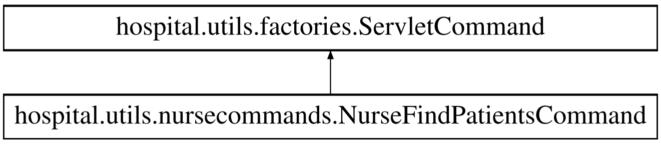
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/nursecommands/NurseDoPrescrCommand.java

3.18 hospital.utils.nursecommands.NurseFindPatientsCommand Class Reference

Inheritance diagram for hospital.utils.nursecommands.NurseFindPatientsCommand:


hospital.utils.factories.ServletCommand
hospital.utils.nursecommands.NurseFindPatientsCommand

Public Member Functions

- NurseFindPatientsCommand ()
- NurseFindPatientsCommand (RandomPatient randomPatient)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.18.1 Detailed Description

Class, which represents creating of patients command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.18.2 Constructor & Destructor Documentation

3.18.2.1 NurseFindPatientsCommand() [1/2]

```
hospital.utils.nursecommands.NurseFindPatientsCommand.NurseFindPatientsCommand ( )
```

Constructor for creating new object,used for testing

See also

NurseFindPatientsCommand(RandomPatient)

3.18.2.2 NurseFindPatientsCommand() [2/2]

```
hospital.utils.nursecommands.NurseFindPatientsCommand.NurseFindPatientsCommand (
             RandomPatient randomPatient )
```

Constructor for creating new object,used for testing

See also

NurseFindPatientsCommand()

3.18.3 Member Function Documentation

3.18.3.1 execute()

```
void hospital.utils.nursecommands.NurseFindPatientsCommand.execute (
             HttpServletRequest request,
             HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occurred while processing the request

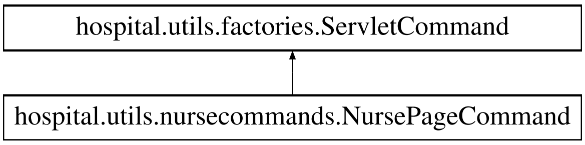
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/nursecommands/NurseFindPatientsCommand.↩ java

3.19 hospital.utils.nursecommands.NursePageCommand Class Reference

Inheritance diagram for hospital.utils.nursecommands.NursePageCommand:


hospital.utils.factories.ServletCommand
hospital.utils.nursecommands.NursePageCommand

Public Member Functions

- NursePageCommand ()
- NursePageCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

3.19.1 Detailed Description

Class, which represents nurse page command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.19.2 Constructor & Destructor Documentation

3.19.2.1 NursePageCommand() [1/2]

```
hospital.utils.nursecommands.NursePageCommand.NursePageCommand ( )
```

Constructor for creating new object

See also

NursePageCommand(DAOFactory)

3.19.2.2 NursePageCommand() [2/2]

```
hospital.utils.nursecommands.NursePageCommand.NursePageCommand (
            DAOFactory factory )
```

Constructor for creating new object

See also

NursePageCommand()

3.19.3 Member Function Documentation

3.19.3.1 execute()

```
void hospital.utils.nursecommands.NursePageCommand.execute (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error occured while processing the request

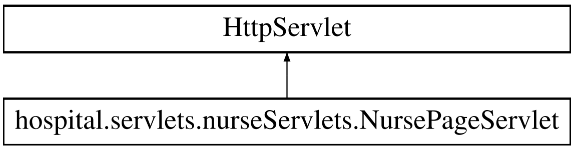
Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/nursecommands/NursePageCommand.java

3.20 hospital.servlets.nurseServlets.NursePageServlet Class Reference

Inheritance diagram for hospital.servlets.nurseServlets.NursePageServlet:



Protected Member Functions

- void doPost (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.20.1 Detailed Description

Class, which represents nurse page servlet.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.20.2 Member Function Documentation

3.20.2.1 doPost()

```
void hospital.servlets.nurseServlets.NursePageServlet.doPost (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException  [protected]
```

Method performing HHTP POST request

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	On servlet error
IOException	On error fulfilling the request

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/nurseServlets/NursePageServlet.java

3.21 hospital.utils.PasswordEncryptorSHA256 Class Reference

Static Public Member Functions

- static String encryptPasswordWithSHA256 (String input) throws NoSuchAlgorithmException

3.21.1 Detailed Description

Class, which represents password encryptor using algorithm SHA-256

Author

Yelyzaveta Onyshchenko

Version

1.01

3.21.2 Member Function Documentation

3.21.2.1 encryptPasswordWithSHA256()

```
static String hospital.utils.PasswordEncryptorSHA256.encryptPasswordWithSHA256 (
             String input ) throws NoSuchAlgorithmException  [static]
```

Method that encrypts string using SHA-256

Parameters

input	input string

Returns

encrypted string

Exceptions

NoSuchAlgorithmException	no such algorithm exception

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/PasswordEncryptorSHA256.java

3.22 hospital.entity.PatientData Class Reference

Public Member Functions

- PatientData (int patientId, int doctorId, int nurseId, int diagnosisId, int patientStatus)

- PatientData (int patientId, int doctorId, int nurseId, int diagnosisId, int patientStatus, PatientDataManipulations manipulations)
- Set< Prescription > getPrescriptionHistory ()
- void setPrescriptionHistory (Set< Prescription > prescriptionHistory)
- Set< Prescription > getCurrentPrescriptions ()
- void setCurrentPrescriptions (Set< Prescription > currentPrescriptions)
- int getId ()
- void setId (int id)
- User getPatient ()
- void setPatient (User patient)
- User getDoctor ()
- void setDoctor (User doctor)
- User getNurse ()
- void setNurse (User nurse)
- Diagnosis getDiagnosis ()
- void setDiagnosis (Diagnosis diagnosis)
- int getPatientStatus ()
- void setPatientStatus (int patientStatus)

Static Public Attributes

- static final String TABLE_NAME = "patient_info"
- static final String ID_COLUMN = "id"
- static final String PATIENT_COLUMN = "patient_id"
- static final String DOCTOR_COLUMN = "doctor_id"
- static final String NURSE_COLUMN = "nurse_id"
- static final String DIAGNOSIS_COLUMN = "diagnosis_id"
- static final String STATUS_COLUMN = "patient_status"

3.22.1 Detailed Description

Class, which represents patient data.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.22.2 Constructor & Destructor Documentation

3.22.2.1 PatientData() [1/2]

```
hospital.entity.PatientData.PatientData (
            int patientId,
            int doctorId,
            int nurseId,
            int diagnosisId,
            int patientStatus )
```

Constructor for creating new object.

Parameters

patientId	corresponding patient id
doctorId	corresponding doctor id
nurseId	corresponding nurse id
diagnosisId	corresponding diagnosis id
patientStatus	corresponding patient status

See also

PatientData(int,int,int,int,int,PatientDataManipulations)

3.22.2.2 PatientData() [2/2]

```
hospital.entity.PatientData.PatientData (
              int patientId,
              int doctorId,
              int nurseId,
              int diagnosisId,
              int patientStatus,
              PatientDataManipulations manipulations )
```

Constructor for creating new object, used for testing.

Parameters

patientId	corresponding patient id
doctorId	corresponding doctor id
nurseId	corresponding nurse id
diagnosisId	corresponding diagnosis id
patientStatus	corresponding patient status
manipulations	corresponding instance of PatientDataManipulations class

See also

PatientData(int,int,int,int,int)

3.22.3 Member Function Documentation

3.22.3.1 getCurrentPrescriptions()

```
Set<Prescription> hospital.entity.PatientData.getCurrentPrescriptions ( )
```

Gets current prescriptions

Returns

current prescriptions

3.22.3.2 getDiagnosis()

```
Diagnosis hospital.entity.PatientData.getDiagnosis ( )
```

Gets patient's diagnosis.

Returns

patient's diagnosis

3.22.3.3 getDoctor()

```
User hospital.entity.PatientData.getDoctor ( )
```

Gets patient's doctor.

Returns

patient's doctor

3.22.3.4 getId()

```
int hospital.entity.PatientData.getId ( )
```

Gets id of instance

Returns

id of instance

3.22.3.5 getNurse()

```
User hospital.entity.PatientData.getNurse ( )
```

Gets patient's nurse.

Returns

patient's nurse

3.22.3.6 getPatient()

```
User hospital.entity.PatientData.getPatient ( )
```

Gets patient

Returns

patient

3.22.3.7 getPatientStatus()

```
int hospital.entity.PatientData.getPatientStatus ( )
```

Gets patient's status.

Returns

patient's status

3.22.3.8 getPrescriptionHistory()

```
Set<Prescription> hospital.entity.PatientData.getPrescriptionHistory ( )
```

Gets prescription history

Returns

prescription history

3.22.3.9 setCurrentPrescriptions()

```
void hospital.entity.PatientData.setCurrentPrescriptions (
             Set< Prescription > currentPrescriptions )
```

Sets current prescriptions

Parameters

currentPrescriptions	current prescriptions to set

3.22.3.10 setDiagnosis()

```
void hospital.entity.PatientData.setDiagnosis (
             Diagnosis diagnosis )
```

Sets patient's diagnosis

Parameters

diagnosis	patient's diagnosis to set

3.22.3.11 setDoctor()

```
void hospital.entity.PatientData.setDoctor (
             User doctor )
```

Sets patient's doctor

Parameters

doctor	patient's doctor to set

3.22.3.12 setId()

```
void hospital.entity.PatientData.setId (
             int id )
```

Sets id of instance

Parameters

id	id of instance to set

3.22.3.13 setNurse()

```
void hospital.entity.PatientData.setNurse (
             User nurse )
```

Sets patient's nurse

Parameters

nurse	patient's nurse to set

3.22.3.14 setPatient()

```
void hospital.entity.PatientData.setPatient (
             User patient )
```

Sets patient

Parameters

patient	patient to set to current instance

3.22.3.15 setPatientStatus()

```
void hospital.entity.PatientData.setPatientStatus (
             int patientStatus )
```

Sets patient's status

Parameters

patientStatus	patient's status to set

3.22.3.16 setPrescriptionHistory()

```
void hospital.entity.PatientData.setPrescriptionHistory (
             Set< Prescription > prescriptionHistory )
```

Sets prescription history

Parameters

prescriptionHistory	prescription history to set

3.22.4 Member Data Documentation

3.22.4.1 DIAGNOSIS_COLUMN

```
final String hospital.entity.PatientData.DIAGNOSIS_COLUMN = "diagnosis_id"  [static]
```

The corresponding name of diagnosis id column in table.

3.22.4.2 DOCTOR_COLUMN

```
final String hospital.entity.PatientData.DOCTOR_COLUMN = "doctor_id"  [static]
```

The corresponding name of doctor id column in table.

3.22.4.3 ID_COLUMN

```
final String hospital.entity.PatientData.ID_COLUMN = "id"  [static]
```

The corresponding name of id column in table.

3.22.4.4 NURSE_COLUMN

```
final String hospital.entity.PatientData.NURSE_COLUMN = "nurse_id"  [static]
```

The corresponding name of nurse id column in table.

3.22.4.5 PATIENT_COLUMN

```
final String hospital.entity.PatientData.PATIENT_COLUMN = "patient_id"  [static]
```

The corresponding name of patient id column in table.

3.22.4.6 STATUS_COLUMN

```
final String hospital.entity.PatientData.STATUS_COLUMN = "patient_status"  [static]
```

The corresponding name of patient status column in table.

3.22.4.7 TABLE_NAME

```
final String hospital.entity.PatientData.TABLE_NAME = "patient_info"  [static]
```

The corresponding name of table in database.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/entity/PatientData.java

3.23 hospital.dao.impl.PatientDataImpl Class Reference

Public Member Functions

- PatientData findByPatientId (int id)
- List< PatientData > findDoctorPatients (int id)
- List< PatientData > findNursePatients (int id)
- void insert (int id)
- List< PatientData > findAll ()
- List< PatientData > findAllWhereNoDoc ()
- List< PatientData > findAllWhereNoNurse ()
- void updateDoctor (int doctorId, int patientId)
- void updateNurse (int nurseId, int patientId)
- void updateDiagnosis (int diagnosisId, int patientId)
- void updatePatientStatus (int id)

3.23.1 Detailed Description

Class, which represents PatientData DAO

Author

Yelyzaveta Onyshchenko

Version

1.01

3.23.2 Member Function Documentation

3.23.2.1 findAll()

```
List<PatientData> hospital.dao.impl.PatientDataImpl.findAll ( )
```

Find all patient data in database

Returns

list of patient data

3.23.2.2 findAllWhereNoDoc()

```
List<PatientData> hospital.dao.impl.PatientDataImpl.findAllWhereNoDoc ( )
```

Find all patients which have no doctor at the moment

Returns

list of patients

3.23.2.3 findAllWhereNoNurse()

```
List<PatientData> hospital.dao.impl.PatientDataImpl.findAllWhereNoNurse ( )
```

Find all patients which have no nurse at the moment

Returns

list of patients

3.23.2.4 findByPatientId()

```
PatientData hospital.dao.impl.PatientDataImpl.findByPatientId (
              int id )
```

Find patient data by patient id

Returns

corresponding patient info

3.23.2.5 findDoctorPatients()

```
List<PatientData> hospital.dao.impl.PatientDataImpl.findDoctorPatients (
              int id )
```

Find existing doctor's patients by doctor id

Returns

list of patients

3.23.2.6 findNursePatients()

```
List<PatientData> hospital.dao.impl.PatientDataImpl.findNursePatients (
             int id )
```

Find existing nurse's patients by nurse id

Returns

list of patients

3.23.2.7 insert()

```
void hospital.dao.impl.PatientDataImpl.insert (
             int id )
```

Insert new patient to patient_info table

3.23.2.8 updateDiagnosis()

```
void hospital.dao.impl.PatientDataImpl.updateDiagnosis (
             int diagnosisId,
             int patientId )
```

Appoint diagnosis to the patient

3.23.2.9 updateDoctor()

```
void hospital.dao.impl.PatientDataImpl.updateDoctor (
             int doctorId,
             int patientId )
```

Appoint doctor to the patient

3.23.2.10 updateNurse()

```
void hospital.dao.impl.PatientDataImpl.updateNurse (
             int nurseId,
             int patientId )
```

Appoint nurse to the patient

3.23.2.11 updatePatientStatus()

```
void hospital.dao.impl.PatientDataImpl.updatePatientStatus (
            int id )
```

Change status of the patient.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/dao/impl/PatientDataImpl.java

3.24 hospital.utils.utilsForDBData.PatientDataManipulations Class Reference

Public Member Functions

- PatientDataManipulations ()
- PatientDataManipulations (DAOFactory factory)
- User detectPerson (int id)
- Diagnosis detectDiagnosis (int id)
- void refreshPatients ()
- void checkPrescriptionHistory ()
- void createPatientHistory (int patientId)
- void makePrescriptions (PatientData patientData)
- List< Prescription > prepareActivePrescriptions (Set< Prescription > pastPrescriptions, List< Prescription > listToPrepare)
- Set< Prescription > findPatientHistory (int patientId)
- Set< Prescription > findNewPrescriptions (int patientId)

3.24.1 Detailed Description

Class, which used for operations with patient data.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.24.2 Constructor & Destructor Documentation

3.24.2.1 PatientDataManipulations() [1/2]

```
hospital.utils.utilsForDBData.PatientDataManipulations.PatientDataManipulations ( )
```

Constructor for creating new object.

See also

PatientDataManipulations(DAOFactory)

3.24.2.2 PatientDataManipulations() [2/2]

```
hospital.utils.utilsForDBData.PatientDataManipulations.PatientDataManipulations (
             DAOFactory factory )
```

Constructor for creating new object.

See also

PatientDataManipulations()

3.24.3 Member Function Documentation

3.24.3.1 checkPrescriptionHistory()

```
void hospital.utils.utilsForDBData.PatientDataManipulations.checkPrescriptionHistory ( )
```

Method which checks that all patients have their prescription history

3.24.3.2 createPatientHistory()

```
void hospital.utils.utilsForDBData.PatientDataManipulations.createPatientHistory (
             int patientId )
```

Method which creates prescription history in case of absence

3.24.3.3 detectDiagnosis()

```
Diagnosis hospital.utils.utilsForDBData.PatientDataManipulations.detectDiagnosis (
             int id )
```

Method which defines diagnosis by id

Parameters

id	id of user

Returns

corresponding instance of Diagnosis class

3.24.3.4 detectPerson()

```
User hospital.utils.utilsForDBData.PatientDataManipulations.detectPerson (
              int id )
```

Method which defines user by id

Parameters

id	id of user

Returns

corresponding instance of User class

3.24.3.5 findNewPrescriptions()

```
Set<Prescription> hospital.utils.utilsForDBData.PatientDataManipulations.findNewPrescriptions
(
              int patientId )
```

Finds new prescriptions in database

Parameters

patient← Id	id of patient

Returns

new prescriptions for patient

3.24.3.6 findPatientHistory()

```
Set<Prescription> hospital.utils.utilsForDBData.PatientDataManipulations.findPatientHistory (
             int patientId )
```

Finds prescription history in database

Parameters

patient↩ Id	id of patient

Returns

prescription history of patient

3.24.3.7 makePrescriptions()

```
void hospital.utils.utilsForDBData.PatientDataManipulations.makePrescriptions (
             PatientData patientData )
```

Method which defines which prescriptions are necessary for patient based on his/her diagnosis

3.24.3.8 prepareActivePrescriptions()

```
List<Prescription> hospital.utils.utilsForDBData.PatientDataManipulations.prepareActive↩
Prescriptions (
             Set< Prescription > pastPrescriptions,
             List< Prescription > listToPrepare )
```

Method which removes prescriptions that patient has already tried

3.24.3.9 refreshPatients()

```
void hospital.utils.utilsForDBData.PatientDataManipulations.refreshPatients ( )
```

Method which checks that all patient data is present in the database

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/utilsForDBData/PatientDataManipulations.java

3.25 hospital.utils.queries.PatientDataQueries Interface Reference

Static Public Attributes

- static final String FIND_ALL = "select ∗ from " + PatientData.TABLE_NAME
- static final String FIND_DOCTOR_PATIENTS
- static final String FIND_NURSE_PATIENTS
- static final String FIND_PATIENT
- static final String FIND_WITHOUT_DOC
- static final String FIND_WITHOUT_NURSE
- static final String INSERT_PATIENT
- static final String UPDATE_PATIENT_STATUS
- static final String ADD_DOCTOR = "update " + PatientData.TABLE_NAME + " set " + PatientData.DOCTO↩ R_COLUMN +" = ? where " + PatientData.PATIENT_COLUMN + " = ?"
- static final String ADD_NURSE = "update " + PatientData.TABLE_NAME + " set " + PatientData.NURSE_↩ COLUMN +" = ? where " + PatientData.PATIENT_COLUMN + " = ?"
- static final String ADD_DIAGNOSIS = "update " + PatientData.TABLE_NAME + " set " + PatientData.DIA↩ GNOSIS_COLUMN +" = ? where " + PatientData.PATIENT_COLUMN + " = ?"

3.25.1 Detailed Description

Basic queries for patient data table.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.25.2 Member Data Documentation

3.25.2.1 ADD_DIAGNOSIS

```
final String hospital.utils.queries.PatientDataQueries.ADD_DIAGNOSIS = "update " + Patient↩
Data.TABLE_NAME + " set " + PatientData.DIAGNOSIS_COLUMN +" = ? where " + PatientData.PATIE↩
NT_COLUMN + " = ?" [static]
```

UPDATE patient_info SET diagnosis_id = ? WHERE patient_id = ?;

3.25.2.2 ADD_DOCTOR

```
final String hospital.utils.queries.PatientDataQueries.ADD_DOCTOR = "update " + PatientData.↩
TABLE_NAME + " set " + PatientData.DOCTOR_COLUMN +" = ? where " + PatientData.PATIENT_COLUMN
+ " = ?" [static]
```

UPDATE patient_info SET doctor_id = ? WHERE patient_id = ?;

3.25.2.3 ADD_NURSE

```
final String hospital.utils.queries.PatientDataQueries.ADD_NURSE = "update " + PatientData.T↩
ABLE_NAME + " set " + PatientData.NURSE_COLUMN +" = ?  where " + PatientData.PATIENT_COLUMN +
" = ?"  [static]
```

UPDATE patient_info SET nurse_id = ? WHERE patient_id = ?;

3.25.2.4 FIND_ALL

```
final String hospital.utils.queries.PatientDataQueries.FIND_ALL = "select * from " + Patient↩
Data.TABLE_NAME  [static]
```

SELECT * FROM patient_info;

3.25.2.5 FIND_DOCTOR_PATIENTS

```
final String hospital.utils.queries.PatientDataQueries.FIND_DOCTOR_PATIENTS  [static]
```

Initial value:

```
= "select * from " + PatientData.TABLE_NAME + " where "
            + PatientData.DOCTOR_COLUMN + " = ? and " + PatientData.STATUS_COLUMN +  " = 1"
```

SELECT * FROM patient_info WHERE doctor_id = ? AND patient_status = 1;

3.25.2.6 FIND_NURSE_PATIENTS

```
final String hospital.utils.queries.PatientDataQueries.FIND_NURSE_PATIENTS  [static]
```

Initial value:

```
= "select * from " + PatientData.TABLE_NAME + " where "
            + PatientData.NURSE_COLUMN + " = ? and " + PatientData.STATUS_COLUMN +  " = 1"
```

SELECT * FROM patient_info WHERE nurse_id = ? AND patient_status = 1;

3.25.2.7 FIND_PATIENT

```
final String hospital.utils.queries.PatientDataQueries.FIND_PATIENT  [static]
```

Initial value:

```
= "select * from " + PatientData.TABLE_NAME + " where "
            + PatientData.PATIENT_COLUMN + " = ?"
```

SELECT * FROM patient_info WHERE patient_id = ?

3.25.2.8 FIND_WITHOUT_DOC

```
final String hospital.utils.queries.PatientDataQueries.FIND_WITHOUT_DOC  [static]
```

Initial value:

```
= "select * from " + PatientData.TABLE_NAME + " where "
            + PatientData.DOCTOR_COLUMN + " IS NULL and " + PatientData.STATUS_COLUMN +  " = 1"
```

SELECT * FROM patient_info WHERE doctor_id IS NULL AND patient_status = 1;

3.25.2.9 FIND_WITHOUT_NURSE

```
final String hospital.utils.queries.PatientDataQueries.FIND_WITHOUT_NURSE  [static]
```

Initial value:

```
= "select * from " + PatientData.TABLE_NAME + " where "
            + PatientData.NURSE_COLUMN + " IS NULL and " + PatientData.STATUS_COLUMN +  " = 1"
```

SELECT ∗ FROM patient_info WHERE nurse_id IS NULL AND patient_status = 1;

3.25.2.10 INSERT_PATIENT

```
final String hospital.utils.queries.PatientDataQueries.INSERT_PATIENT  [static]
```

Initial value:

```
= "insert into " + PatientData.TABLE_NAME
            + " (" + PatientData.PATIENT_COLUMN +  ") values (?)"
```

INSERT INTO patient_info (patient_id) VALUES (?);

3.25.2.11 UPDATE_PATIENT_STATUS

```
final String hospital.utils.queries.PatientDataQueries.UPDATE_PATIENT_STATUS  [static]
```

Initial value:

```
= "update " + PatientData.TABLE_NAME + " set " + PatientData.STATUS_COLUMN +" = 0, " +
            PatientData.DOCTOR_COLUMN + " = NULL, " + PatientData.NURSE_COLUMN + " = NULL  where " +
            PatientData.PATIENT_COLUMN + " = ?"
```

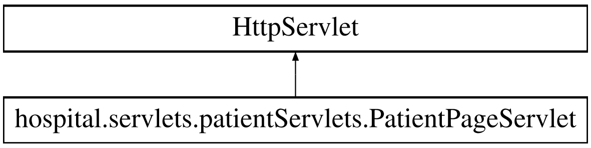
UPDATE patient_info SET patient_status = 0, doctor_id = NULL, nurse_id = NULL WHERE patient_id = ?;

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/queries/PatientDataQueries.java

3.26 hospital.servlets.patientServlets.PatientPageServlet Class Reference

Inheritance diagram for hospital.servlets.patientServlets.PatientPageServlet:



Public Member Functions

- PatientPageServlet ()
- PatientPageServlet (DAOFactory factory)

Protected Member Functions

- void doPost (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↵ Exception

3.26.1 Detailed Description

Class, which represents patient page servlet.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.26.2 Constructor & Destructor Documentation

3.26.2.1 PatientPageServlet() [1/2]

```
hospital.servlets.patientServlets.PatientPageServlet.PatientPageServlet ( )
```

Constructor for creating new object

See also

PatientPageServlet(DAOFactory)

3.26.2.2 PatientPageServlet() [2/2]

```
hospital.servlets.patientServlets.PatientPageServlet.PatientPageServlet (
            DAOFactory factory )
```

Constructor for creating new object

Parameters

factory	instance of DAO factory

See also

PatientPageServlet(DAOFactory)

3.26.3 Member Function Documentation

3.26.3.1 doPost()

```
void hospital.servlets.patientServlets.PatientPageServlet.doPost (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException  [protected]
```

Method performing HHTP POST request

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	On servlet error
IOException	On error fulfilling the request

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/servlets/patientServlets/PatientPageServlet.java

3.27 hospital.entity.prescription.Prescription Class Reference

Public Member Functions

- Prescription (int id, String name, String prescriptionClass)
- Prescription (String name, int amount)
- int getAmountOfMedicine ()
- void setAmountOfMedicine (int amountOfMedicine)
- int getId ()
- void setId (int id)
- String getName ()
- void setName (String name)
- String getPrescriptionClass ()
- void setPrescriptionClass (String prescriptionClass)

Static Public Attributes

- static final String TABLE_NAME = "prescription_table"
- static final String ID_COLUMN = "id_prescription"
- static final String NAME_COLUMN = "prescription_name"
- static final String CLASS_COLUMN = "prescription_class"
- static final String CONNECTED_TABLE_HISTORY = "previous_prescriptions"
- static final String CONNECTED_TABLE_HISTORY_ID = "id"
- static final String CONNECTED_TABLE_HISTORY_PATIENT = "patient_id"
- static final String CONNECTED_TABLE_HISTORY_PRESCR = "prescription_id"
- static final String CONNECTED_TABLE_NEW = "new_prescriptions"
- static final String CONNECTED_TABLE_NEW_ID = "id"
- static final String CONNECTED_TABLE_NEW_PATIENT = "patient_id"
- static final String CONNECTED_TABLE_NEW_PRESCR = "prescription_id"
- static final String MED_TABLE = "medicine_list"
- static final String MED_TABLE_NAME = "medicine_name"
- static final String MED_TABLE_AMOUNT = "medicine_amount"

3.27.1 Detailed Description

Class, which represents prescription which can be set to the patient.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.27.2 Constructor & Destructor Documentation

3.27.2.1 Prescription() [1/2]

```
hospital.entity.prescription.Prescription.Prescription (
            int id,
            String name,
            String prescriptionClass )
```

Constructor for creating new object.

Parameters

id	corresponding id of the prescription
name	coresponding name of the prescription
prescriptionClass	coresponding class of the prescription

3.27.2.2 Prescription() [2/2]

```
hospital.entity.prescription.Prescription.Prescription (
            String name,
            int amount )
```

Constructor for creating new object of medical prescription.

Parameters

name	coresponding name of the prescription
amount	coresponding amount of the prescription

3.27.3 Member Function Documentation

3.27.3.1 getAmountOfMedicine()

```
int hospital.entity.prescription.Prescription.getAmountOfMedicine ( )
```

Method, which returns amount of medicine

Returns

amount of medicine

3.27.3.2 getId()

```
int hospital.entity.prescription.Prescription.getId ( )
```

Method, which returns id of prescription

Returns

id of prescription

3.27.3.3 getName()

```
String hospital.entity.prescription.Prescription.getName ( )
```

Method, which returns name of prescription

Returns

name of prescription

3.27.3.4 getPrescriptionClass()

```
String hospital.entity.prescription.Prescription.getPrescriptionClass ( )
```

Method, which returns prescription class

Returns

class of prescription

3.27.3.5 setAmountOfMedicine()

```
void hospital.entity.prescription.Prescription.setAmountOfMedicine (
            int amountOfMedicine )
```

Method, which sets amount of medicine

Parameters

amountOfMedicine	amount of medicine

3.27.3.6 setId()

```
void hospital.entity.prescription.Prescription.setId (
            int id )
```

Sets the id of prescription

Parameters

id	id of prescription

3.27.3.7 setName()

```
void hospital.entity.prescription.Prescription.setName (
             String name )
```

Sets name of prescription

Parameters

name	name of prescription

3.27.3.8 setPrescriptionClass()

```
void hospital.entity.prescription.Prescription.setPrescriptionClass (
             String prescriptionClass )
```

Sets class of prescription

Parameters

prescriptionClass	prescription class to set

3.27.4 Member Data Documentation

3.27.4.1 CLASS_COLUMN

```
final String hospital.entity.prescription.Prescription.CLASS_COLUMN = "prescription_class"
[static]
```

The corresponding name of prescription class column in table.

3.27.4.2 CONNECTED_TABLE_HISTORY

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_HISTORY = "previous_↩
prescriptions"  [static]
```

The corresponding name of previous prescriptions table in database.

3.27.4.3 CONNECTED_TABLE_HISTORY_ID

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_HISTORY_ID = "id"  [static]
```

The corresponding name of id column in table.

3.27.4.4 CONNECTED_TABLE_HISTORY_PATIENT

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_HISTORY_PATIENT = "patient←↩
_id"  [static]
```

The corresponding name of patient id column in table.

3.27.4.5 CONNECTED_TABLE_HISTORY_PRESCR

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_HISTORY_PRESCR = "prescription←↩
_id"  [static]
```

The corresponding name of prescription id column in table.

3.27.4.6 CONNECTED_TABLE_NEW

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_NEW = "new_prescriptions"
[static]
```

The corresponding name of new prescriptions table in database.

3.27.4.7 CONNECTED_TABLE_NEW_ID

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_NEW_ID = "id"  [static]
```

The corresponding name of id column in table.

3.27.4.8 CONNECTED_TABLE_NEW_PATIENT

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_NEW_PATIENT = "patient←↩
_id"  [static]
```

The corresponding name of patient id column in table.

3.27.4.9 CONNECTED_TABLE_NEW_PRESCR

```
final String hospital.entity.prescription.Prescription.CONNECTED_TABLE_NEW_PRESCR = "prescription←↩
_id"  [static]
```

The corresponding name of prescription id column in table.

3.27.4.10 ID_COLUMN

```
final String hospital.entity.prescription.Prescription.ID_COLUMN = "id_prescription"  [static]
```

The corresponding name of id column in table.

3.27.4.11 MED_TABLE

```
final String hospital.entity.prescription.Prescription.MED_TABLE = "medicine_list"  [static]
```

The corresponding name of medicine list table in database.

3.27.4.12 MED_TABLE_AMOUNT

```
final String hospital.entity.prescription.Prescription.MED_TABLE_AMOUNT = "medicine_amount"
[static]
```

The corresponding name of medicine amount column in table.

3.27.4.13 MED_TABLE_NAME

```
final String hospital.entity.prescription.Prescription.MED_TABLE_NAME = "medicine_name"  [static]
```

The corresponding name of medicine name column in table.

3.27.4.14 NAME_COLUMN

```
final String hospital.entity.prescription.Prescription.NAME_COLUMN = "prescription_name"  [static]
```

The corresponding name of prescription name in table.

3.27.4.15 TABLE_NAME

```
final String hospital.entity.prescription.Prescription.TABLE_NAME = "prescription_table"  [static]
```

The corresponding name of table in database.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/entity/prescription/Prescription.java

3.28 hospital.dao.impl.PrescriptionDAOImpl Class Reference

Public Member Functions

- List< Prescription > findAll ()
- Prescription findById (int id)
- List< Integer > findByPatientHistory (int id)
- List< Integer > findByActivePrescriptions (int id)
- List< Prescription > findByClass (String prescriptionClass)
- void insertHistory (int prescriptionId, int patientId)
- void insertNewPrescriptions (int prescriptionId, int patientId)
- void delete (int id, int patientId)

3.28.1 Detailed Description

Class, which represents Prescription DAO

Author

Yelyzaveta Onyshchenko

Version

1.01

3.28.2 Member Function Documentation

3.28.2.1 delete()

```
void hospital.dao.impl.PrescriptionDAOImpl.delete (
            int id,
            int patientId )
```

Delete prescription for particular patient

3.28.2.2 findAll()

```
List<Prescription> hospital.dao.impl.PrescriptionDAOImpl.findAll ( )
```

Find all prescriptions

Returns

list of prescriptions

3.28.2.3 findByActivePrescriptions()

```
List<Integer> hospital.dao.impl.PrescriptionDAOImpl.findByActivePrescriptions (
            int id )
```

Find patients new prescriptions

Returns

new prescriptions - list of prescriptions id

3.28.2.4 findByClass()

```
List<Prescription> hospital.dao.impl.PrescriptionDAOImpl.findByClass (
            String prescriptionClass )
```

Find prescription by prescription class

Returns

list of corresponding prescriptions

3.28.2.5 findById()

```
Prescription hospital.dao.impl.PrescriptionDAOImpl.findById (
            int id )
```

Find prescription by id

Returns

corresponding prescription

3.28.2.6 findByPatientHistory()

```
List<Integer> hospital.dao.impl.PrescriptionDAOImpl.findByPatientHistory (
            int id )
```

Find patients prescription history

Returns

prescription history - list of prescriptions id

3.28.2.7 insertHistory()

```
void hospital.dao.impl.PrescriptionDAOImpl.insertHistory (
            int prescriptionId,
            int patientId )
```

Insert patient's history in table

3.28.2.8 insertNewPrescriptions()

```
void hospital.dao.impl.PrescriptionDAOImpl.insertNewPrescriptions (
            int prescriptionId,
            int patientId )
```

Insert new prescriptions for patient in table

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/dao/impl/PrescriptionDAOImpl.java

3.29 hospital.utils.queries.PrescriptionQueries Interface Reference

Static Public Attributes

- static final String FIND_ALL = "select ∗ from " + Prescription.TABLE_NAME
- static final String FIND_ALL_HISTORY
- static final String FIND_ALL_NEW
- static final String FIND_ALL_MED = "select ∗ from " + Prescription.MED_TABLE
- static final String FIND_BY_ID = FIND_ALL + " where " + Prescription.ID_COLUMN + " = ?"
- static final String FIND_BY_CLASS = FIND_ALL + " where " + Prescription.CLASS_COLUMN + " = ?"
- static final String INSERT_PRESCRIPTION_HISTORY
- static final String INSERT_NEW_PRESCRIPTION
- static final String DELETE_PRESCRIPTION
- static final String FIND_MED_LIST = FIND_ALL_MED + " where " + Prescription.MED_TABLE_NAME + " = ?"
- static final String UPDATE_MED_LIST

3.29.1 Detailed Description

Basic queries for prescription table.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.29.2 Member Data Documentation

3.29.2.1 DELETE_PRESCRIPTION

```
final String hospital.utils.queries.PrescriptionQueries.DELETE_PRESCRIPTION  [static]
```

Initial value:

```
= "delete from " + Prescription.CONNECTED_TABLE_NEW + " where " + Prescription.CONNECTED_TABLE_NEW_PRESCR
            +" = ? and " + Prescription.CONNECTED_TABLE_NEW_PATIENT + " = ?"
```

DELETE FROM new_prescriptions WHERE prescription_id = ? AND patient_id = ?;

3.29.2.2 FIND_ALL

```
final String hospital.utils.queries.PrescriptionQueries.FIND_ALL = "select * from " + Prescription.↩
TABLE_NAME  [static]
```

SELECT ∗ FROM prescription_table;

3.29.2.3 FIND_ALL_HISTORY

```
final String hospital.utils.queries.PrescriptionQueries.FIND_ALL_HISTORY  [static]
```

Initial value:

```
= "select * from " + Prescription.CONNECTED_TABLE_HISTORY + " where " +
            Prescription.CONNECTED_TABLE_HISTORY_PATIENT + " = ?"
```

SELECT ∗ FROM previous_prescriptions WHERE patient_id = ?;

3.29.2.4 FIND_ALL_MED

```
final String hospital.utils.queries.PrescriptionQueries.FIND_ALL_MED = "select * from " +
Prescription.MED_TABLE  [static]
```

SELECT ∗ FROM medicine_list;

3.29.2.5 FIND_ALL_NEW

```
final String hospital.utils.queries.PrescriptionQueries.FIND_ALL_NEW  [static]
```

Initial value:

```
= "select * from " + Prescription.CONNECTED_TABLE_NEW + " where " +
            Prescription.CONNECTED_TABLE_NEW_PATIENT + " = ?"
```

SELECT ∗ FROM new_prescriptions WHERE patient_id = ?;

3.29.2.6 FIND_BY_CLASS

```
final String hospital.utils.queries.PrescriptionQueries.FIND_BY_CLASS = FIND_ALL + " where " +
Prescription.CLASS_COLUMN + " = ?"  [static]
```

SELECT ∗ FROM prescription_table WHERE prescription_class = ?;

3.29.2.7 FIND_BY_ID

```
final String hospital.utils.queries.PrescriptionQueries.FIND_BY_ID = FIND_ALL + " where " +
Prescription.ID_COLUMN + " = ?"  [static]
```

SELECT ∗ FROM prescription_table WHERE id_prescription = ?;

3.29.2.8 FIND_MED_LIST

```
final String hospital.utils.queries.PrescriptionQueries.FIND_MED_LIST = FIND_ALL_MED + " where
" + Prescription.MED_TABLE_NAME + " = ?"  [static]
```

SELECT ∗ FROM medicine_list WHERE medicine_name = ?;

3.29.2.9 INSERT_NEW_PRESCRIPTION

```
final String hospital.utils.queries.PrescriptionQueries.INSERT_NEW_PRESCRIPTION  [static]
```

Initial value:

```
= "insert into " + Prescription.CONNECTED_TABLE_NEW
            + " (" + Prescription.CONNECTED_TABLE_NEW_PATIENT + ", " +
       Prescription.CONNECTED_TABLE_NEW_PRESCR
            + ") values (?, ?)"
```

INSERT INTO new_prescriptions(patient_id,prescription_id) VALUES (?,?);

3.29.2.10 INSERT_PRESCRIPTION_HISTORY

```
final String hospital.utils.queries.PrescriptionQueries.INSERT_PRESCRIPTION_HISTORY  [static]
```

Initial value:

```
= "insert into " + Prescription.CONNECTED_TABLE_HISTORY
            + " (" + Prescription.CONNECTED_TABLE_HISTORY_PATIENT + ", " +
       Prescription.CONNECTED_TABLE_HISTORY_PRESCR
           + ") values (?, ?)"
```

INSERT INTO previous_prescriptions(patient_id,prescription_id) VALUES (?,?);

3.29.2.11 UPDATE_MED_LIST

```
final String hospital.utils.queries.PrescriptionQueries.UPDATE_MED_LIST  [static]
```

Initial value:

```
= "update " + Prescription.MED_TABLE + " set " + Prescription.MED_TABLE_AMOUNT +
            " = ? where " + Prescription.MED_TABLE_NAME + " = ?"
```

UPDATE medicine_list SET medicine_amount = ? WHERE medicine_name = ?;

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/queries/PrescriptionQueries.java

3.30 hospital.utils.RandomNumber Class Reference

Static Public Member Functions

- static int randNumber (int min, int max)

3.30.1 Detailed Description

Class, which used to random number

Author

Yelyzaveta Onyshchenko

Version

1.01

3.30.2 Member Function Documentation

3.30.2.1 randNumber()

```
static int hospital.utils.RandomNumber.randNumber (
            int min,
            int max )  [static]
```

Method which generates random number

Parameters

min	min number
max	max number

Returns

generated number

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/RandomNumber.java

3.31 hospital.utils.RandomPatient Class Reference

Public Member Functions

- RandomPatient ()

- RandomPatient (DAOFactory factory)
- void randomPatientNurse (int id)
- void randomPatientDoc (int id)

3.31.1 Detailed Description

Class, which used to random patient for doctor or nurse

Author

Yelyzaveta Onyshchenko

Version

1.01

3.31.2 Constructor & Destructor Documentation

3.31.2.1 RandomPatient() [1/2]

```
hospital.utils.RandomPatient.RandomPatient ( )
```

Constructor for creating new object.

See also

RandomPatient(DAOFactory)

3.31.2.2 RandomPatient() [2/2]

```
hospital.utils.RandomPatient.RandomPatient (
            DAOFactory factory )
```

Constructor for creating new object.

See also

RandomPatient()

3.31.3 Member Function Documentation

3.31.3.1 randomPatientDoc()

```
void hospital.utils.RandomPatient.randomPatientDoc (
            int id )
```

Create patient for doctor

Parameters

id	id of doctor

3.31.3.2 randomPatientNurse()

```
void hospital.utils.RandomPatient.randomPatientNurse (
             int id )
```

Create patient for nurse

Parameters

id	id of nurse

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/RandomPatient.java

3.32 hospital.utils.RegexContainer Interface Reference

Public Attributes

- String REGEX_NAME_ENG ="^[A-Z][a-z]{3,29}$"
- String REGEX_EMAIL = "([a-z0-9_-]+\\.)∗[a-z0-9_-]+\\@[a-z0-9_-]+(\\.[a-z0-9_-]+)∗\\.[a-z]{2,6}$"
- String REGEX_PASSWORD = "^[A-Za-z0-9_-]{3,30}$"

3.32.1 Detailed Description

Basic interface for regular expressions

Author

Yelyzaveta Onyshchenko

Version

1.01

3.32.2 Member Data Documentation

3.32.2.1 REGEX_EMAIL

```
String hospital.utils.RegexContainer.REGEX_EMAIL = "([a-z0-9_-]+\\.)*[a-z0-9_-]+\\@[a-z0-9_-]+(\\.[a-z0-9_-]+)*\\.[a-z]{2,6}$"
```

Regular expression for email

3.32.2.2 REGEX_NAME_ENG

```
String hospital.utils.RegexContainer.REGEX_NAME_ENG ="^[A-Z][a-z]{3,29}$"
```

Regular expression for name and surname

3.32.2.3 REGEX_PASSWORD

```
String hospital.utils.RegexContainer.REGEX_PASSWORD = "^[A-Za-z0-9_-]{3,30}$"
```

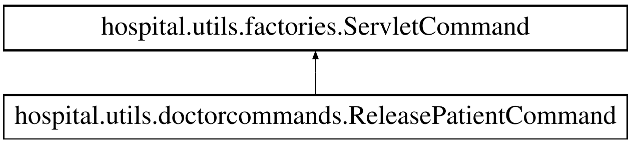
Regular expression for password

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/RegexContainer.java

3.33 hospital.utils.doctorcommands.ReleasePatientCommand Class Reference

Inheritance diagram for hospital.utils.doctorcommands.ReleasePatientCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.ReleasePatientCommand

Public Member Functions

- ReleasePatientCommand ()
- ReleasePatientCommand (DAOFactory factory)
- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

3.33.1 Detailed Description

Class, which represents release of the patient command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.33.2 Constructor & Destructor Documentation

3.33.2.1 ReleasePatientCommand() [1/2]

```
hospital.utils.doctorcommands.ReleasePatientCommand.ReleasePatientCommand ( )
```

Constructor for creating new object

See also

ReleasePatientCommand(DAOFactory)

3.33.2.2 ReleasePatientCommand() [2/2]

```
hospital.utils.doctorcommands.ReleasePatientCommand.ReleasePatientCommand (
             DAOFactory factory )
```

Constructor for creating new object

See also

ReleasePatientCommand()

3.33.3 Member Function Documentation

3.33.3.1 execute()

```
void hospital.utils.doctorcommands.ReleasePatientCommand.execute (
             HttpServletRequest request,
             HttpServletResponse response ) throws ServletException, IOException
```

Execute command method

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception

Exceptions

IOException	on error occured while processing the request

Implements hospital.utils.factories.ServletCommand.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/doctorcommands/ReleasePatientCommand.java

3.34 hospital.entity.Role Class Reference

Public Member Functions

- Role (int id, String name)
- String getName ()
- void setName (String name)
- int getId ()
- void setId (int id)

Static Public Attributes

- static final String TABLE_NAME = "user_roles"
- static final String ID_COLUMN = "role_id"
- static final String NAME_COLUMN = "name"

3.34.1 Detailed Description

Class, which represents possible role in system.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.34.2 Constructor & Destructor Documentation

3.34.2.1 Role()

```
hospital.entity.Role.Role (
              int id,
              String name )
```

Constructor for creating new object.

Parameters

id	corresponding id
name	corresponding name of the role

3.34.3 Member Function Documentation

3.34.3.1 getId()

```
int hospital.entity.Role.getId ( )
```

Gets id of the role

Returns

id of the role

3.34.3.2 getName()

```
String hospital.entity.Role.getName ( )
```

Gets name of the role

Returns

name of the role

3.34.3.3 setId()

```
void hospital.entity.Role.setId (
             int id )
```

Sets id of the role

Parameters

id	id of the role to set

3.34.3.4 setName()

```
void hospital.entity.Role.setName (
             String name )
```

Sets name of the role

Parameters

name	name of the role to set

3.34.4 Member Data Documentation

3.34.4.1 ID_COLUMN

```
final String hospital.entity.Role.ID_COLUMN = "role_id"  [static]
```

The corresponding name of id column in table.

3.34.4.2 NAME_COLUMN

```
final String hospital.entity.Role.NAME_COLUMN = "name"  [static]
```

The corresponding name of name column in table.

3.34.4.3 TABLE_NAME

```
final String hospital.entity.Role.TABLE_NAME = "user_roles"  [static]
```

The corresponding name of table in database.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/entity/Role.java

3.35 hospital.dao.impl.RoleDAOImpl Class Reference

Public Member Functions

- Role findById (int id)
- Role findByName (String name)

3.35.1 Detailed Description

Class, which represents Role DAO

Author

Yelyzaveta Onyshchenko

Version

1.01

3.35.2 Member Function Documentation

3.35.2.1 findById()

```
Role hospital.dao.impl.RoleDAOImpl.findById (
             int id )
```

Find role by id

Returns

corresponding role

3.35.2.2 findByName()

```
Role hospital.dao.impl.RoleDAOImpl.findByName (
             String name )
```

Find role by name

Returns

corresponding role

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/dao/impl/RoleDAOImpl.java

3.36 hospital.utils.queries.RoleQueries Interface Reference

Static Public Attributes

- static final String FIND_BY_ID
- static final String FIND_BY_NAME

3.36.1 Detailed Description

Basic queries for ROLE table.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.36.2 Member Data Documentation

3.36.2.1 FIND_BY_ID

```
final String hospital.utils.queries.RoleQueries.FIND_BY_ID  [static]
```

Initial value:

```
= "select * from " + Role.TABLE_NAME + " where "
            + Role.ID_COLUMN + " = ?"
```

SELECT * FROM user_roles WHERE role_id = ?;

3.36.2.2 FIND_BY_NAME

```
final String hospital.utils.queries.RoleQueries.FIND_BY_NAME  [static]
```

Initial value:

```
= "select * from " + Role.TABLE_NAME + " where "
            + Role.NAME_COLUMN + " = ?"
```

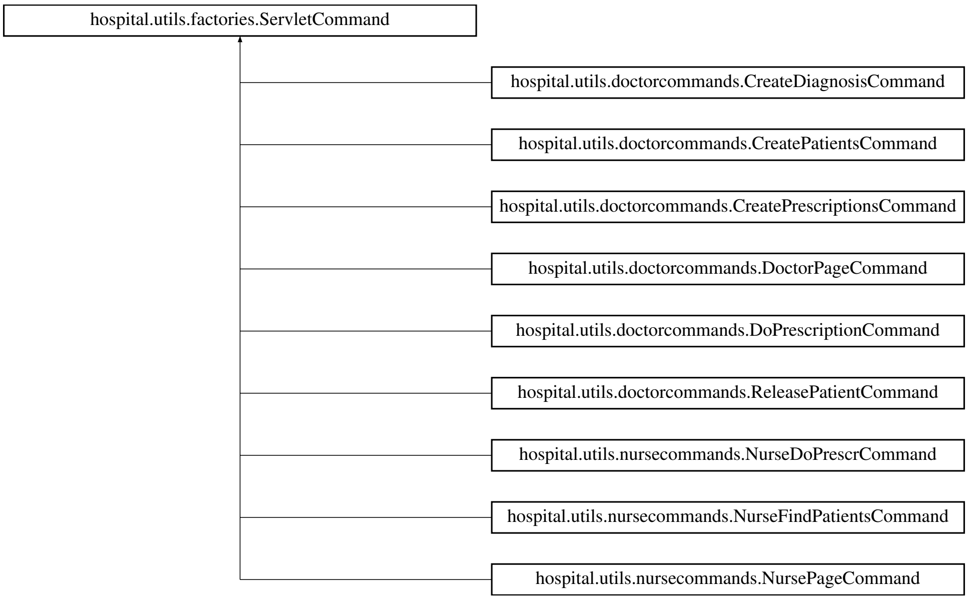
SELECT * FROM user_roles WHERE name = ?;

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/queries/RoleQueries.java

3.37 hospital.utils.factories.ServletCommand Interface Reference

Inheritance diagram for hospital.utils.factories.ServletCommand:


hospital.utils.factories.ServletCommand
hospital.utils.doctorcommands.CreateDiagnosisCommand
hospital.utils.doctorcommands.CreatePatientsCommand
hospital.utils.doctorcommands.CreatePrescriptionsCommand
hospital.utils.doctorcommands.DoctorPageCommand
hospital.utils.doctorcommands.DoPrescriptionCommand
hospital.utils.doctorcommands.ReleasePatientCommand
hospital.utils.nursecommands.NurseDoPrescrCommand
hospital.utils.nursecommands.NurseFindPatientsCommand
hospital.utils.nursecommands.NursePageCommand

Public Member Functions

- void execute (HttpServletRequest request, HttpServletResponse response) throws ServletException, IO↩ Exception

3.37.1 Detailed Description

Basic interface for servlet command.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.37.2 Member Function Documentation

3.37.2.1 execute()

```
void hospital.utils.factories.ServletCommand.execute (
            HttpServletRequest request,
            HttpServletResponse response ) throws ServletException, IOException
```

Instructions for command to perform.

Parameters

request	HttpRequest
response	HttpResponse

Exceptions

ServletException	on servlet exception
IOException	on error while performing the request

Implemented in hospital.utils.doctorcommands.CreatePrescriptionsCommand, hospital.utils.doctorcommands.CreateDiagnosisComm hospital.utils.nursecommands.NursePageCommand, hospital.utils.doctorcommands.DoctorPageCommand, hospital.utils.doctorcommands.ReleasePatientCommand, hospital.utils.doctorcommands.DoPrescriptionCommand, hospital.utils.doctorcommands.CreatePatientsCommand, hospital.utils.nursecommands.NurseDoPrescrCommand, and hospital.utils.nursecommands.NurseFindPatientsCommand.

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/factories/ServletCommand.java

3.38 hospital.utils.SingleTransaction Class Reference

Public Member Functions

- void transfer (int id, int patientId) throws SQLException

Static Public Member Functions

- static synchronized SingleTransaction getInstance ()

3.38.1 Detailed Description

Class, which used for transaction for medical prescriptions

Author

Yelyzaveta Onyshchenko

Version

1.01

3.38.2 Member Function Documentation

3.38.2.1 getInstance()

```
static synchronized SingleTransaction hospital.utils.SingleTransaction.getInstance ( )  [static]
```

Gets instance of SingleTransaction

Returns

SingleTransaction instance

3.38.2.2 transfer()

```
void hospital.utils.SingleTransaction.transfer (
             int id,
             int patientId ) throws SQLException
```

Method that performs transaction

Parameters

id	id of prescription
patient↩ Id	patient id

Exceptions

SQLException	SQLException which can occure during transaction

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/SingleTransaction.java

3.39 hospital.utils.URLBase Enum Reference

Public Member Functions

- URLBase (String url)
- String getUrl ()

Static Public Member Functions

- static URLBase getValue (String value)

Public Attributes

- **NURSE_PAGE** =("http://localhost:8000/nursePage")
- **DO_PRESCR_NURSE** =("http://localhost:8000/nursePage/doPrescriptionNurse")
- **CREATE_NURSE_PATIENTS** =("http://localhost:8000/nursePage/createNursePatients")
- **DOCTOR_PAGE** =("http://localhost:8000/doctorPage")
- **CREATE_DIAGNOSIS** =("http://localhost:8000/doctorPage/createPatientDiagnosis")
- **CREATE_PRESCR** =("http://localhost:8000/doctorPage/createPatientPrescriptions")
- **DO_PRESCR_DOCTOR** =("http://localhost:8000/doctorPage/doPrescriptionDoctor")
- **RELEASE_PATIENT** =("http://localhost:8000/doctorPage/releasePatient")
- **CREATEPATIENTSDOC** =("http://localhost:8000/doctorPage/createPatients")

3.39.1 Detailed Description

Enum which stores URLs of project pages

Author

Yelyzaveta Onyshchenko

Version

1.01

3.39.2 Constructor & Destructor Documentation

3.39.2.1 URLBase()

```
hospital.utils.URLBase.URLBase (
            String url )
```

Constructor

Parameters

url	url of page

3.39.3 Member Function Documentation

3.39.3.1 getUrl()

```
String hospital.utils.URLBase.getUrl ( )
```

Returns url

Returns

page url

3.39.3.2 getValue()

```
static URLBase hospital.utils.URLBase.getValue (
            String value )  [static]
```

Retrieves value

Parameters

value	url, which used to find value

Returns

value

The documentation for this enum was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/URLBase.java

3.40 hospital.entity.User Class Reference

Public Member Functions

- User (int id, String name, String surname, String email, String password, int role)
- User (String name, String surname, String email, String password, int role)
- User (int id, String name, String surname, String email, String password, int role, UserDataManipulations userDataManipulations1)
- User (String name, String surname, String email, String password, int role, UserDataManipulations user↩ DataManipulations1)
- int getId ()
- Role getRole ()
- void setRole (Role role)
- void setId (int id)
- String getName ()
- void setName (String name)
- String getSurname ()
- void setSurname (String surname)
- String getEmail ()
- void setEmail (String email)
- String getPassword ()
- void setPassword (String password)

Static Public Attributes

- static final String TABLE_NAME = "app_users"
- static final String ID_COLUMN = "id"
- static final String NAME_COLUMN = "name"
- static final String SURNAME_COLUMN = "surname"
- static final String EMAIL_COLUMN = "email"
- static final String PASSWORD_COLUMN = "password"
- static final String ROLE_COLUMN = "role"

3.40.1 Detailed Description

Class, which represents app user.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.40.2 Constructor & Destructor Documentation

3.40.2.1 User() [1/4]

```
hospital.entity.User.User (
              int id,
              String name,
              String surname,
              String email,
              String password,
              int role )
```

Constructor for creating new object.

Parameters

id	corresponding user id
name	corresponding name
surname	corresponding surname
email	corresponding email
password	corresponding password
role	corresponding role

See also

User(int,String,String,String,String,int,UserDataManipulations)

3.40.2.2 User() [2/4]

```
hospital.entity.User.User (
            String name,
            String surname,
            String email,
            String password,
            int role )
```

Constructor for creating new object.

Parameters

name	corresponding name
surname	corresponding surname
email	corresponding email
password	corresponding password
role	corresponding role

See also

User(String,String,String,String,int,UserDataManipulations)

3.40.2.3 User() [3/4]

```
hospital.entity.User.User (
            int id,
            String name,
            String surname,
            String email,
            String password,
            int role,
            UserDataManipulations userDataManipulations1 )
```

Constructor for creating new object,used for testing

Parameters

id	corresponding user id
name	corresponding name
surname	corresponding surname
email	corresponding email
password	corresponding password
role	corresponding role
userDataManipulations1	instance for operations with data

See also

User(int,String,String,String,String,int)

3.40.2.4 User() [4/4]

```
hospital.entity.User.User (
            String name,
            String surname,
            String email,
            String password,
            int role,
            UserDataManipulations userDataManipulations1 )
```

Constructor for creating new object,used for testing

Parameters

name	corresponding name
surname	corresponding surname
email	corresponding email
password	corresponding password
role	corresponding role
userDataManipulations1	instance for operations with data

See also

User(int,String,String,String,String,int)

3.40.3 Member Function Documentation

3.40.3.1 getEmail()

```
String hospital.entity.User.getEmail ( )
```

Gets user email

Returns

user id

3.40.3.2 getId()

```
int hospital.entity.User.getId ( )
```

Gets user id

Returns

user id

3.40.3.3 getName()

```
String hospital.entity.User.getName ( )
```

Gets user name

Returns

user name

3.40.3.4 getPassword()

```
String hospital.entity.User.getPassword ( )
```

Gets user password

Returns

user id

3.40.3.5 getRole()

```
Role hospital.entity.User.getRole ( )
```

Gets user role

Returns

user role

3.40.3.6 getSurname()

```
String hospital.entity.User.getSurname ( )
```

Gets user surname

Returns

user surname

3.40.3.7 setEmail()

```
void hospital.entity.User.setEmail (
             String email )
```

Sets user email

Parameters

email	user email to set

3.40.3.8 setId()

```
void hospital.entity.User.setId (
             int id )
```

Sets user id

Parameters

id	user id to set

3.40.3.9 setName()

```
void hospital.entity.User.setName (
             String name )
```

Sets user name

Parameters

name	user name to set

3.40.3.10 setPassword()

```
void hospital.entity.User.setPassword (
             String password )
```

Sets user password

Parameters

password	user password to set

3.40.3.11 setRole()

```
void hospital.entity.User.setRole (
             Role role )
```

Sets user role

Parameters

role	user role to set

3.40.3.12 setSurname()

```
void hospital.entity.User.setSurname (
             String surname )
```

Sets user surname

Parameters

surname	user surname to set

3.40.4 Member Data Documentation

3.40.4.1 EMAIL_COLUMN

```
final String hospital.entity.User.EMAIL_COLUMN = "email"  [static]
```

The corresponding name of email column in table.

3.40.4.2 ID_COLUMN

```
final String hospital.entity.User.ID_COLUMN = "id"  [static]
```

The corresponding name of id column in table.

3.40.4.3 NAME_COLUMN

```
final String hospital.entity.User.NAME_COLUMN = "name"  [static]
```

The corresponding name of name column in table.

3.40.4.4 PASSWORD_COLUMN

```
final String hospital.entity.User.PASSWORD_COLUMN = "password"  [static]
```

The corresponding name of password column in table.

3.40.4.5 ROLE_COLUMN

```
final String hospital.entity.User.ROLE_COLUMN = "role"  [static]
```

The corresponding name of role column in table.

3.40.4.6 SURNAME_COLUMN

```
final String hospital.entity.User.SURNAME_COLUMN = "surname"  [static]
```

The corresponding name of surname column in table.

3.40.4.7 TABLE_NAME

```
final String hospital.entity.User.TABLE_NAME = "app_users"  [static]
```

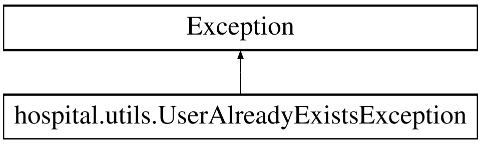
The corresponding name of table in database.

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/entity/User.java

3.41 hospital.utils.UserAlreadyExistsException Class Reference

Inheritance diagram for hospital.utils.UserAlreadyExistsException:



Public Member Functions

- **UserAlreadyExistsException** (String message)
- **UserAlreadyExistsException** (String message, Throwable cause)
- **UserAlreadyExistsException** (Throwable cause)

3.41.1 Detailed Description

Class, which represents exception, which means that user already exists in database. Used in registration process in CreateUserServlet.

Author

Yelyzaveta Onyshchenko

Version

1.01

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/UserAlreadyExistsException.java

3.42 hospital.dao.impl.UserDAOImpl Class Reference

Public Member Functions

- List< User > findAll ()
- User findByEmailAndPass (String email, String password)
- void insert (User user)
- User findById (int id)

3.42.1 Detailed Description

Class, which represents User DAO

Author

Yelyzaveta Onyshchenko

Version

1.01

3.42.2 Member Function Documentation

3.42.2.1 findAll()

```
List<User> hospital.dao.impl.UserDAOImpl.findAll ( )
```

Find all users

Returns

list of users

3.42.2.2 findByEmailAndPass()

```
User hospital.dao.impl.UserDAOImpl.findByEmailAndPass (
             String email,
             String password )
```

Find user by email and password

Returns

corresponding user

3.42.2.3 findById()

```
User hospital.dao.impl.UserDAOImpl.findById (
             int id )
```

Find user by id

Returns

corresponding user

3.42.2.4 insert()

```
void hospital.dao.impl.UserDAOImpl.insert (
             User user )
```

Insert new user in database

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/dao/impl/UserDAOImpl.java

3.43 hospital.utils.utilsForDBData.UserDataManipulations Class Reference

Public Member Functions

- UserDataManipulations ()
- UserDataManipulations (DAOFactory factory)
- Role detectRole (int id)

3.43.1 Detailed Description

Class, which used for operations with user data.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.43.2 Constructor & Destructor Documentation

3.43.2.1 UserDataManipulations() [1/2]

```
hospital.utils.utilsForDBData.UserDataManipulations.UserDataManipulations ( )
```

Constructor for creating new object.

See also

UserDataManipulations(DAOFactory)

3.43.2.2 UserDataManipulations() [2/2]

```
hospital.utils.utilsForDBData.UserDataManipulations.UserDataManipulations (
            DAOFactory factory )
```

Constructor for creating new object.

See also

UserDataManipulations()

3.43.3 Member Function Documentation

3.43.3.1 detectRole()

```
Role hospital.utils.utilsForDBData.UserDataManipulations.detectRole (
            int id )
```

Method which defines user role by id

Parameters

id	id of user

Returns

corresponding instance of Role class

The documentation for this class was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/utilsForDBData/UserDataManipulations.java

3.44 hospital.utils.queries.UserQueries Interface Reference

Static Public Attributes

- static final String FIND_BY_EMAIL_AND_PASS
- static final String FIND_ALL = "select ∗ from " + User.TABLE_NAME
- static final String FIND_BY_ID = FIND_ALL + " where " + User.ID_COLUMN + " = ?"
- static final String INSERT_USER

3.44.1 Detailed Description

Basic queries for user table.

Author

Yelyzaveta Onyshchenko

Version

1.01

3.44.2 Member Data Documentation

3.44.2.1 FIND_ALL

```
final String hospital.utils.queries.UserQueries.FIND_ALL = "select ∗ from " + User.TABLE_NAME
[static]
```

SELECT ∗ FROM app_users;

3.44.2.2 FIND_BY_EMAIL_AND_PASS

`final String hospital.utils.queries.UserQueries.FIND_BY_EMAIL_AND_PASS [static]`

Initial value:

```
= "select * from " + User.TABLE_NAME + " where "
            + User.EMAIL_COLUMN + " = ? and " + User.PASSWORD_COLUMN + " = ?"
```

SELECT * FROM app_users WHERE email = ? AND password = ?;

3.44.2.3 FIND_BY_ID

`final String hospital.utils.queries.UserQueries.FIND_BY_ID = FIND_ALL + " where " + User.ID_COLUMN + " = ?" [static]`

SELECT * FROM app_users WHERE id = ?;

3.44.2.4 INSERT_USER

`final String hospital.utils.queries.UserQueries.INSERT_USER [static]`

Initial value:

```
= "insert into " + User.TABLE_NAME
            + " (" + User.NAME_COLUMN + ", " + User.SURNAME_COLUMN + ", " +
            User.EMAIL_COLUMN + ", " + User.PASSWORD_COLUMN +", " + User.ROLE_COLUMN +  ") values (?, ?, ?,
       ?, ?)"
```

INSERT INTO app_users(name,surname,email,password,role) VALUES (?, ?, ?, ?, ?);

The documentation for this interface was generated from the following file:

- C:/Users/Liza/Desktop/Hospital/src/main/java/hospital/utils/queries/UserQueries.java

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