MyBattery

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Chapter 1

Namespace Index

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Repository interface for Battery entity			 	

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Chapter 2

Hierarchical Index

2.1 Class Hierarchy

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Chapter 3

Class Index

3.1 Class List

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

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Chapter 4

Namespace Documentation

4.1 Package com.batteryworkshop.repositories

Repository interface for Battery entity.

Classes

- interface BatteryRepository
- interface ItemReparacionRepository
- interface ReporteRepository

4.1.1 Detailed Description

Repository interface for Battery entity.

Repository interface for repair reports.

Repository interface for repair items.

Extends JpaRepository to provide CRUD operations and JPA functionality for Battery entities. The Long parameter represents the type of the primary key.

Since

1.0

Extends JpaRepository to provide CRUD operations and JPA functionality for ItemReparacion entities. The Long parameter represents the type of the primary key.

Since

1.0

Extends JpaRepository to provide CRUD operations and JPA functionality for RepairReport entities. The Long parameter represents the type of the primary key.

Since

1.0

Chapter 5

Class Documentation

5.1 com.batteryworkshop.models.Battery Class Reference

Battery entity registered in the workshop system.

Collaboration diagram for com.batteryworkshop.models.Battery:

com.batteryworkshop.models. Battery

- + Battery(String model, String description, BigDecimal baseCost)
- + Long getId()
- + String getModel()
- + String getDescription()
- + BigDecimal getBaseCost()
- + List< RepairReport > getRepairReports()
- + RepairReport addRepairReport()
- + void setAmperaje(BigDecimal newAmpere)
- + void setCarga(boolean carga)
- + void setDescarga(boolean descarga)
 - and 7 more...
- # Battery()

Public Member Functions

• Battery (String model, String description, BigDecimal baseCost)

Creates a new Battery instance with required basic data.

· Long getId ()

Gets the unique identifier of the battery.

• String getModel ()

Gets the battery model.

• String getDescription ()

Gets the battery description.

• BigDecimal getBaseCost ()

Gets the base repair cost of the battery.

List< RepairReport > getRepairReports ()

Gets an immutable list of repair reports associated with this battery.

RepairReport addRepairReport ()

Creates and adds a new repair report to the battery.

void setAmperaje (BigDecimal newAmpere)

Sets the ampere of the battery.

• void setCarga (boolean carga)

Sets the charging state of the battery.

void setDescarga (boolean descarga)

Sets the discharging state of the battery.

• void setVoltaje (BigDecimal newVoltaje)

Sets the voltage of the battery.

BigDecimal getVoltage ()

Gets the voltage of the battery.

• BigDecimal getAmpere ()

Gets the ampere rating of the battery.

• boolean isCharge ()

Checks if the battery is in a charging state.

• boolean isDischarge ()

Checks if the battery is in a discharging state.

- void setCompleted (boolean completed)
- boolean isCompleted ()

Protected Member Functions

• Battery ()

Protected no-args constructor required by JPA.

5.1.1 Detailed Description

Battery entity registered in the workshop system.

This entity stores the basic battery information and its associated repair reports. The battery has a predefined model, description and base repair cost.

Since

1.0

5.1.2 Constructor & Destructor Documentation

5.1.2.1 Battery() [1/2]

```
com.batteryworkshop.models.Battery.Battery () [inline], [protected]
```

Protected no-args constructor required by JPA.

Should not be used directly in application code.

5.1.2.2 Battery() [2/2]

Creates a new Battery instance with required basic data.

Parameters

model	The battery model or type (cannot be null)
description	The detailed battery description (can be null)
baseCost	The base repair cost (cannot be null)

Exceptions

IllegalArgumentException if model or baseCost are null
--

5.1.3 Member Function Documentation

5.1.3.1 addRepairReport()

```
{\tt RepairReport\ com.batteryworkshop.models.Battery.addRepairReport\ ()\ [inline]
```

Creates and adds a new repair report to the battery.

Returns

The newly created and added repair report

Maintains bidirectional consistency of the relationship between Battery and RepairReport. Here is the caller graph for this function:



5.1.3.2 getAmpere()

BigDecimal com.batteryworkshop.models.Battery.getAmpere () [inline]

Gets the ampere rating of the battery.

Returns

The ampere rating of the battery.

5.1.3.3 getBaseCost()

BigDecimal com.batteryworkshop.models.Battery.getBaseCost () [inline]

Gets the base repair cost of the battery.

Returns

The base repair cost

Here is the caller graph for this function:



5.1.3.4 getDescription()

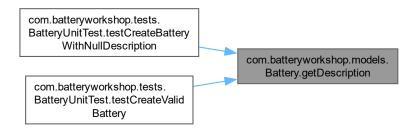
 ${\tt String \ com.batteryworkshop.models.Battery.getDescription \ () \ \ [inline]}$

Gets the battery description.

Returns

The battery description, can be null

Here is the caller graph for this function:



5.1.3.5 getId()

Long com.batteryworkshop.models.Battery.getId () [inline]

Gets the unique identifier of the battery.

Returns

The battery ID

5.1.3.6 getModel()

String com.batteryworkshop.models.Battery.getModel () [inline]

Gets the battery model.

Returns

The battery model

Here is the caller graph for this function:



5.1.3.7 getRepairReports()

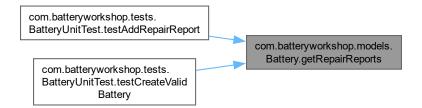
List< RepairReport > com.batteryworkshop.models.Battery.getRepairReports () [inline]

Gets an immutable list of repair reports associated with this battery.

Returns

Immutable list of repair reports

The returned list cannot be modified to maintain encapsulation. Here is the caller graph for this function:



5.1.3.8 getVoltage()

```
BigDecimal com.batteryworkshop.models.Battery.getVoltage () [inline]
```

Gets the voltage of the battery.

Returns

The voltage of the battery.

5.1.3.9 isCharge()

```
boolean com.batteryworkshop.models.Battery.isCharge () [inline]
```

Checks if the battery is in a charging state.

Returns

True if the battery is charging, otherwise false.

5.1.3.10 isDischarge()

```
boolean com.batteryworkshop.models.Battery.isDischarge () [inline]
```

Checks if the battery is in a discharging state.

Returns

True if the battery is discharging, otherwise false.

5.1.3.11 setAmperaje()

```
void com.batteryworkshop.models.Battery.setAmperaje ( {\tt BigDecimal}\ newAmpere) \quad [inline]
```

Sets the ampere of the battery.

Parameters

```
newAmpere The new value for the ampere of the battery.
```

5.1.3.12 setCarga()

Sets the charging state of the battery.

Parameters

The new charging state of the battery.

5.1.3.13 setDescarga()

Sets the discharging state of the battery.

Parameters

descarga The new discharging state of the battery

5.1.3.14 setVoltaje()

```
void com.batteryworkshop.models.Battery.setVoltaje ( {\tt BigDecimal}\ newVoltaje) \quad [{\tt inline}]
```

Sets the voltage of the battery.

Parameters

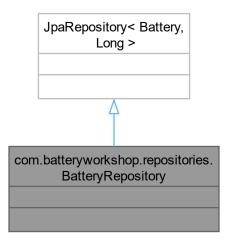
newVoltaje	The new voltage of the battery.
------------	---------------------------------

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

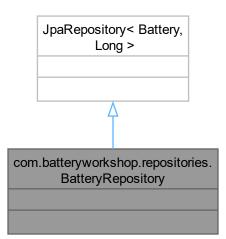
• src/main/java/com/batteryworkshop/models/Battery.java

5.2 com.batteryworkshop.repositories.BatteryRepository Interface Reference

Inheritance diagram for com.batteryworkshop.repositories.BatteryRepository:



Collaboration diagram for com.batteryworkshop.repositories.BatteryRepository:



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

• src/main/java/com/batteryworkshop/repositories/BatteryRepository.java

5.3 com.batteryworkshop.tests.BatteryUnitTest Class Reference

Pruebas unitarias para la clase Battery.

Collaboration diagram for com.batteryworkshop.tests.BatteryUnitTest:

com.batteryworkshop.tests. BatteryUnitTest

- + void testCreateValidBattery()
- + void testCreateBatteryWith NullModel()
- + void testCreateBatteryWith NullBaseCost()
- + void testCreateBatteryWith NullDescription()
- + void testAddRepairReport()

Public Member Functions

void testCreateValidBattery ()

Prueba la creación exitosa de una batería con todos los campos válidos.

· void testCreateBatteryWithNullModel ()

Prueba que se lance una excepción al crear una batería con modelo null.

void testCreateBatteryWithNullBaseCost ()

Prueba que se lance una excepción al crear una batería con un coste base null.

void testCreateBatteryWithNullDescription ()

Prueba la creación de una batería con una descripción null.

· void testAddRepairReport ()

Prueba la adición de reportes de reparación a una batería.

5.3.1 Detailed Description

Pruebas unitarias para la clase Battery.

Verifican el correcto funcionamiento de la creación y gestión de objetos Battery.

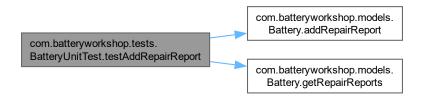
5.3.2 Member Function Documentation

5.3.2.1 testAddRepairReport()

void com.batteryworkshop.tests.BatteryUnitTest.testAddRepairReport () [inline]

Prueba la adición de reportes de reparación a una batería.

Verifica que al añadir reportes de reparación, se actualice correctamente la lista en la batería. Here is the call graph for this function:



5.3.2.2 testCreateBatteryWithNullBaseCost()

void com.batteryworkshop.tests.BatteryUnitTest.testCreateBatteryWithNullBaseCost () [inline]

Prueba que se lance una excepción al crear una batería con un coste base null.

Exceptions

IllegalArgumentExce	ption Si el coste base es null.

Verifica que la clase Battery valide correctamente el coste base durante su creación.

5.3.2.3 testCreateBatteryWithNullDescription()

 $\verb|void com.batteryworkshop.tests.BatteryUnitTest.testCreateBatteryWithNullDescription () [inline]|\\$

Prueba la creación de una batería con una descripción null.

Verifica que las descripciones nulas sean permitidas por la clase Battery. Here is the call graph for this function:



5.3.2.4 testCreateBatteryWithNullModel()

 $\verb|void com.batteryworkshop.tests.BatteryUnitTest.testCreateBatteryWithNullModel () | [inline]| \\$

Prueba que se lance una excepción al crear una batería con modelo null.

Exceptions

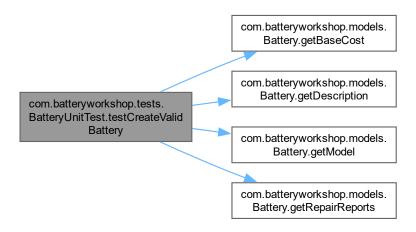
Verifica que la clase Battery valide correctamente el modelo durante su creación.

5.3.2.5 testCreateValidBattery()

void com.batteryworkshop.tests.BatteryUnitTest.testCreateValidBattery () [inline]

Prueba la creación exitosa de una batería con todos los campos válidos.

Verifica que el modelo, la descripción y el coste base se almacenen correctamente y que inicialmente no haya reportes asociados. Here is the call graph for this function:

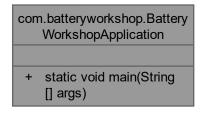


The documentation for this class was generated from the following file:

• src/test/java/com/batteryworkshop/tests/BatteryUnitTest.java

5.4 com.batteryworkshop.BatteryWorkshopApplication Class Reference

Collaboration diagram for com.batteryworkshop.BatteryWorkshopApplication:



Static Public Member Functions

• static void main (String[] args)

5.4.1 Detailed Description

Main class that initializes the Battery Workshop application. This class configures and boots up the Spring Boot context, initializing all components and services required for the application.

5.4.2 Member Function Documentation

5.4.2.1 main()

Main entry point of the application. Initializes the Spring Boot context and configures the application.

Parameters

args	Command line arguments passed to the application
------	--

Exceptions

RuntimeException	if there is an error during application startup
------------------	---

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

• src/main/java/com/batteryworkshop/BatteryWorkshopApplication.java

5.5 com.batteryworkshop.models.ItemReparacion Class Reference

Repair item used during battery repairs.

Collaboration diagram for com.batteryworkshop.models.ItemReparacion:

com.batteryworkshop.models. ItemReparacion

- + ItemReparacion(String nombre, BigDecimal precio)
- + ItemReparacion(String nombre, BigDecimal precio, RepairReport reporte)
- + Long getId()
- + String getNombre()
- + BigDecimal getPrecio()
- + String getDescripcion()
- + void setDescripcion (String descripcion)
- + RepairReport getReporte()
- + boolean equals(Object o)
- + int hashCode()
- + void setReporte(RepairReport repairReport)
- # ItemReparacion()

Public Member Functions

• ItemReparacion (String nombre, BigDecimal precio)

Creates a new repair item instance without an associated report.

• ItemReparacion (String nombre, BigDecimal precio, RepairReport reporte)

Creates a new repair item instance.

· Long getId ()

Gets the unique identifier of the item.

• String getNombre ()

Gets the name of the item.

• BigDecimal getPrecio ()

Gets the price of the item.

• String getDescripcion ()

Gets the description of the item.

void setDescripcion (String descripcion)

Sets the description of the item.

• RepairReport getReporte ()

Gets the associated repair report.

• boolean equals (Object o)

Checks if two repair items are equal.

• int hashCode ()

Generates hash code for the repair item.

void setReporte (RepairReport repairReport)

Sets the associated repair report.

Protected Member Functions

• ItemReparacion ()

Protected no-args constructor required by JPA.

5.5.1 Detailed Description

Repair item used during battery repairs.

Each item has an identifying name and price that contributes to the total report cost. Items can be components like BMS, casing or cells.

Since

1.0

5.5.2 Constructor & Destructor Documentation

5.5.2.1 ItemReparacion() [1/2]

Creates a new repair item instance without an associated report.

Parameters

nombre	Name of the item (cannot be null or empty)
precio	Price of the item (cannot be null or negative)

Exceptions

```
IllegalArgumentException | if nombre or precio parameters are invalid
```

5.5.2.2 ItemReparacion() [2/2]

Creates a new repair item instance.

Parameters

nombre	Name of the item (cannot be null or empty)
precio	Price of the item (cannot be null or negative)
reporte	Associated repair report (optional)

Exceptions

IllegalArgumentException	if nombre or precio parameters are invalid
--------------------------	--

5.5.3 Member Function Documentation

5.5.3.1 equals()

Checks if two repair items are equal.

Parameters

o Object to compare with

Returns

true if items have same ID, false otherwise

Here is the call graph for this function:



5.5.3.2 getDescripcion()

String com.batteryworkshop.models.ItemReparacion.getDescripcion () [inline]

Gets the description of the item.

Returns

Description of the repair item

5.5.3.3 getId()

Long com.batteryworkshop.models.ItemReparacion.getId () [inline]

Gets the unique identifier of the item.

Returns

ID of the repair item

5.5.3.4 getNombre()

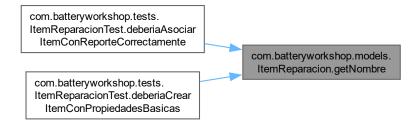
String com.batteryworkshop.models.ItemReparacion.getNombre () [inline]

Gets the name of the item.

Returns

Name of the repair item

Here is the caller graph for this function:



5.5.3.5 getPrecio()

BigDecimal com.batteryworkshop.models.ItemReparacion.getPrecio () [inline]

Gets the price of the item.

Returns

Price of the repair item

Here is the caller graph for this function:



5.5.3.6 getReporte()

RepairReport com.batteryworkshop.models.ItemReparacion.getReporte () [inline]

Gets the associated repair report.

Returns

Associated repair report

Here is the caller graph for this function:



5.5.3.7 hashCode()

int com.batteryworkshop.models.ItemReparacion.hashCode () [inline]

Generates hash code for the repair item.

Returns

Hash code based on item ID

5.5.3.8 setDescripcion()

```
\begin{tabular}{ll} \beg
```

Sets the description of the item.

Parameters

descripcion	New description for the item
-------------	------------------------------

5.5.3.9 setReporte()

Sets the associated repair report.

Parameters

Here is the caller graph for this function:

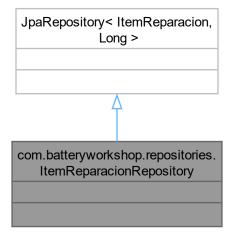


The documentation for this class was generated from the following file:

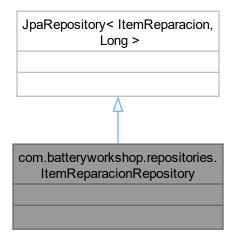
• src/main/java/com/batteryworkshop/models/ItemReparacion.java

5.6 com.batteryworkshop.repositories.ltemReparacionRepository Interface Reference

Inheritance diagram for com.batteryworkshop.repositories.ltemReparacionRepository:



Collaboration diagram for com.batteryworkshop.repositories.ltemReparacionRepository:



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

• src/main/java/com/batteryworkshop/repositories/ItemReparacionRepository.java

5.7 com.batteryworkshop.tests.ltemReparacionTest Class Reference

Collaboration diagram for com.batteryworkshop.tests.ltemReparacionTest:

com.batteryworkshop.tests.
ItemReparacionTest

+ void deberiaCrearItemCon
PropiedadesBasicas()

+ void deberiaAsociarItemCon
ReporteCorrectamente()

Public Member Functions

- void deberiaCrearItemConPropiedadesBasicas ()
- · void deberiaAsociarItemConReporteCorrectamente ()

5.7.1 Detailed Description

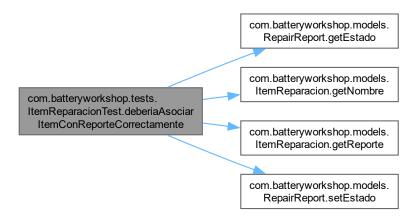
Pruebas unitarias para validar el comportamiento de ItemReparacion.

5.7.2 Member Function Documentation

5.7.2.1 deberiaAsociarItemConReporteCorrectamente()

 $\label{thm:condition} void \ com. battery workshop. tests. Item Reparacion Test. deberia Asociar Item Con Reporte Correct amente \ () \\ [inline]$

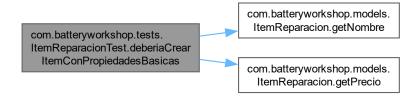
Verifica la correcta asociación entre un ItemReparacion y su RepairReport. Here is the call graph for this function:



5.7.2.2 deberiaCrearItemConPropiedadesBasicas()

 $\label{thm:combattery} void \ com. battery workshop. tests. Item Reparacion Test. deberia Crear Item Con Propieda des Basicas \ () \\ \ [inline]$

Verifica la creación correcta de un ItemReparacion con sus propiedades básicas. Here is the call graph for this function:



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

src/test/java/com/batteryworkshop/tests/ItemReparacionTest.java

5.8 steps.QualityControlSteps Class Reference

Step definitions for quality control scenarios in Cucumber.

Collaboration diagram for steps.QualityControlSteps:

steps.QualityControlSteps

- + void unaBateriaConParametros (float voltaje, float amperaje, int carga, int descarga)
- + void realizoElControlDeCalidad (float voltaje, float amperaje, int carga, int descarga)
- + void elResultadoDeCalidad DebeSer(String esperado)

Public Member Functions

- void unaBateriaConParametros (float voltaje, float amperaje, int carga, int descarga)
 Initializes a battery with specified parameters for testing.
- void realizoElControlDeCalidad (float voltaje, float amperaje, int carga, int descarga)

 Performs the quality control test with specified parameters.
- void elResultadoDeCalidadDebeSer (String esperado)

Verifies the result of the quality control test.

5.8.1 Detailed Description

Step definitions for quality control scenarios in Cucumber.

Defines actions and validations to perform quality control processes on batteries using Gherkin scenarios.

5.8.2 Member Function Documentation

5.8.2.1 elResultadoDeCalidadDebeSer()

Verifies the result of the quality control test.

Parameters

Here is the call graph for this function:



Here is the caller graph for this function:



5.8.2.2 realizoElControlDeCalidad()

Performs the quality control test with specified parameters.

Parameters

voltaje	Expected voltage to test against.
amperaje	Expected ampere rating to test against.
carga	Expected charging state (1 for true, 0 for false).
descarga	Expected discharging state (1 for true, 0 for false).

Here is the call graph for this function:



Here is the caller graph for this function:



5.8.2.3 unaBateriaConParametros()

Initializes a battery with specified parameters for testing.

Parameters

voltaje	Voltage of the battery.
amperaje	Ampere rating of the battery.
carga	Charging state of the battery (1 for true, 0 for false).
descarga	Discharging state of the battery (1 for true, 0 for false).

Here is the call graph for this function:

steps.QualityControlSteps.una BateriaConParametros

Here is the caller graph for this function:

steps.QualityControlSteps.una BateriaConParametros

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

• src/test/java/steps/QualityControlSteps.java

5.9 com.batteryworkshop.models.RepairReport Class Reference

Collaboration diagram for com.batteryworkshop.models.RepairReport:

com.batteryworkshop.models. RepairReport

- + RepairReport()
- + RepairReport(Battery battery)
- + BigDecimal TotalCalculator()
- + String generateJsonSummary()
- + Long getId()
- + int getCurrentStep()
- + String getStatus()
- + boolean isCustomerApproved()
- + BigDecimal getExtraCost()
- + BigDecimal getTotal() and 15 more...
- + static boolean isQuality
 Ok(Battery battery, BigDecimal voltaje, BigDecimal amperaje, boolean carga, boolean descarga)

Public Member Functions

- RepairReport ()
- RepairReport (Battery battery)

Creates a new repair report for a specific battery.

- BigDecimal TotalCalculator ()
- String generateJsonSummary ()
- Long getId ()
- int getCurrentStep ()
- String getStatus ()
- boolean isCustomerApproved ()
- BigDecimal getExtraCost ()
- BigDecimal getTotal ()
- Battery getBattery ()
- List< ItemReparacion > getItems ()
- void addItem (ItemReparacion item)
- void setCurrentStep (int currentStep)
- · void setStatus (String status)

- void setCancellationReason (String reason)
- void setCustomerApproved (boolean approved)
- void setExtraCost (BigDecimal cost)
- void setExtraReason (String reason)
- void setTotal (BigDecimal total)
- String getEstado ()
- void setEstado (String newStatus)
- void setPasoActual (int currentStep)
- String getExtraReason ()
- String getCancellationReason ()

Static Public Member Functions

static boolean isQualityOk (Battery battery, BigDecimal voltaje, BigDecimal amperaje, boolean carga, boolean descarga)

5.9.1 Detailed Description

Repair report entity for batteries. Contains complete repair process information including current status, costs and service details.

Since

1.0

5.9.2 Constructor & Destructor Documentation

5.9.2.1 RepairReport() [1/2]

```
com.batteryworkshop.models.RepairReport.RepairReport () [inline]
```

Protected no-args constructor required by JPA. Should not be used directly in application code.

5.9.2.2 RepairReport() [2/2]

Creates a new repair report for a specific battery.

Parameters

battery	Battery associated with report

Exceptions

IllegalArgumentException	if battery is null
--------------------------	--------------------

Initializes a repair report with zero extra cost and total cost. Here is the call graph for this function:



5.9.3 Member Function Documentation

5.9.3.1 addltem()

Adds new repair item to the repair report.

Parameters

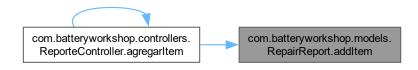
Exceptions

IllegalArgumentException	if item is null.
--------------------------	------------------

Here is the call graph for this function:



Here is the caller graph for this function:



5.9.3.2 generateJsonSummary()

String com.batteryworkshop.models.RepairReport.generateJsonSummary () [inline]

Generates a JSON summary of the repair report. Includes battery information, costs, and repair items.

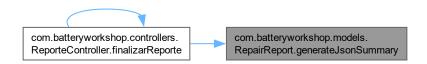
Returns

JSON string containing the repair report summary.

Here is the call graph for this function:



Here is the caller graph for this function:



5.9.3.3 getBattery()

Battery com.batteryworkshop.models.RepairReport.getBattery () [inline]

Retrieves the battery associated with the repair report.

Returns

The associated Battery object.

5.9.3.4 getCancellationReason()

 $String \ com.battery workshop.models. Repair Report.get Cancellation Reason \ () \ [inline]$

Retrieves the reason for repair cancellation.

Returns

Cancellation reason as a string.

5.9.3.5 getCurrentStep()

int com.batteryworkshop.models.RepairReport.getCurrentStep () [inline]

Retrieves the current step in the repair process.

Returns

The current repair step as an integer.

5.9.3.6 getEstado()

String com.batteryworkshop.models.RepairReport.getEstado () [inline]

Retrieves the repair status.

Returns

Repair status as a string.

Here is the caller graph for this function:



5.9.3.7 getExtraCost()

BigDecimal com.batteryworkshop.models.RepairReport.getExtraCost () [inline]

Retrieves the additional costs incurred during the repair.

Returns

Extra costs as a BigDecimal.

5.9.3.8 getExtraReason()

String com.batteryworkshop.models.RepairReport.getExtraReason () [inline]

Retrieves the justification for extra repair costs.

Returns

Reason for extra costs as a string.

5.9.3.9 getId()

Long com.batteryworkshop.models.RepairReport.getId () [inline]

Retrieves the report ID.

Returns

The unique report identifier as a Long.

5.9.3.10 getItems()

```
List < ItemReparacion > com.batteryworkshop.models.RepairReport.getItems () [inline]
```

Retrieves an immutable view of the list of repair items.

Returns

An unmodifiable list of repair items.

5.9.3.11 getStatus()

```
String com.batteryworkshop.models.RepairReport.getStatus () [inline]
```

Retrieves the repair status.

Returns

The current status of the repair as a string.

5.9.3.12 getTotal()

```
BigDecimal com.batteryworkshop.models.RepairReport.getTotal () [inline]
```

Retrieves the total repair cost.

Returns

Total cost as a BigDecimal.

5.9.3.13 isCustomerApproved()

```
boolean com.batteryworkshop.models.RepairReport.isCustomerApproved () [inline]
```

Checks whether the customer approved the repair process.

Returns

True if customer approved the repair; false otherwise.

5.9.3.14 isQualityOk()

Verifies the quality of a battery using parameters such as voltage and amperage differences, and charging/discharging statuses.

Parameters

battery	The battery to verify.
voltaje	Voltage to compare with battery's voltage.
amperaje	Amperage to compare with battery's amperage.
carga	Expected charging status.
descarga	Expected discharging status.

Returns

True if battery quality meets the defined criteria; false otherwise.

Here is the caller graph for this function:



5.9.3.15 setCancellationReason()

```
void com.batteryworkshop.models.RepairReport.setCancellationReason ( String \ reason) \ \ [inline]
```

Updates the cancellation reason of the repair.

Parameters

reason	The reason for cancellation.
--------	------------------------------

5.9.3.16 setCurrentStep()

Updates the current step in the repair process.

Parameters

currentStep	New step value to set.
-------------	------------------------

5.9.3.17 setCustomerApproved()

Updates the customer's approval status.

Parameters

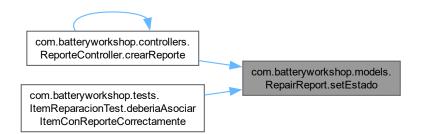
5.9.3.18 setEstado()

Updates the repair status.

Parameters

Status New status value to update.

Here is the caller graph for this function:



5.9.3.19 setExtraCost()

```
\begin{tabular}{ll} \begin{tabular}{ll} void & com.batteryworkshop.models.RepairReport.setExtraCost ( \\ & BigDecimal & cost) & [inline] \end{tabular}
```

Updates the extra cost value for the repair.

Parameters

```
cost New extra cost as a BigDecimal.
```

5.9.3.20 setExtraReason()

```
void com.batteryworkshop.models.RepairReport.setExtraReason ( {\tt String} \ reason) \quad [{\tt inline}]
```

Updates the reason provided for additional repair costs.

Parameters

reason	Reason for extra costs.
--------	-------------------------

5.9.3.21 setPasoActual()

Updates the current step in the repair process.

Parameters

5.9.3.22 setStatus()

```
void com.batteryworkshop.models.RepairReport.setStatus ( String \ status) \quad \hbox{[inline]}
```

Updates the repair status.

Parameters

```
status New status value to set.
```

5.9.3.23 setTotal()

```
\begin{tabular}{ll} \beg
```

Updates the total repair cost.

Parameters

total New total value to set as a BigDecimal.

5.9.3.24 TotalCalculator()

 $\verb|BigDecimal com.batteryworkshop.models.RepairReport.TotalCalculator () [inline]|\\$

Calculates total repair cost by adding battery base cost, repair items cost, and extra costs if any.

Returns

Total cost of the repair work in euros.

Here is the caller graph for this function:



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

• src/main/java/com/batteryworkshop/models/RepairReport.java

5.10 com.batteryworkshop.controllers.ReporteController Class Reference

Collaboration diagram for com.batteryworkshop.controllers.ReporteController:

com.batteryworkshop.controllers. ReporteController + ReporteController (ReporteRepository reporte Repository, BatteryRepository bateriaRepository, ItemReparacionRepository itemRepository) + RepairReport crearReporte (@PathVariable Long bateriald) + String finalizarReporte (@PathVariable Long reported) + ItemReparacion agregarItem (@PathVariable Long reporteld, @RequestBody ItemReparacion item) + RepairReport getReporte (Long id)

Public Member Functions

- ReporteController (ReporteRepository reporteRepository, BatteryRepository bateriaRepository, ItemReparacionRepository itemRepository)
- RepairReport crearReporte (@PathVariable Long bateriald)
- String finalizarReporte (@PathVariable Long reporteld)
- ItemReparacion agregarItem (@PathVariable Long reporteld, @RequestBody ItemReparacion item)
- RepairReport getReporte (Long id)

5.10.1 Detailed Description

Controller class for managing repair reports

5.10.2 Constructor & Destructor Documentation

5.10.2.1 ReporteController()

Constructor for ReporteController

Parameters

reporteRepository	Repository for repair reports
bateriaRepository	Repository for batteries
itemRepository	Repository for repair items

5.10.3 Member Function Documentation

5.10.3.1 agregarItem()

Adds a repair item to a report

Parameters

reporte <i>←</i> Id	ID of the report
item	Repair item to add

Returns

The saved repair item

Exceptions

NoSuchElementException	if report is not found
------------------------	------------------------

Here is the call graph for this function:



Here is the caller graph for this function:



5.10.3.2 crearReporte()

```
RepairReport com.batteryworkshop.controllers.ReporteController.crearReporte ( @PathVariable Long bateriaId) [inline]
```

Creates a new repair report for a battery

Parameters

bateria↔	ID of the battery
ld	

Returns

The created repair report

Exceptions

NoSuchElementException	if battery is not found
------------------------	-------------------------

Here is the call graph for this function:



Here is the caller graph for this function:



5.10.3.3 finalizarReporte()

String com.batteryworkshop.controllers.ReporteController.finalizarReporte ($@ Path Variable \ Long \ reporteId) \quad [inline] \\$

Finalizes a repair report

Parameters

reporte⇔	ID of the report to finalize
ld	

Returns

JSON summary of the finalized report

Exceptions

NoSuchElementException	if report is not found
------------------------	------------------------

Here is the call graph for this function:



Here is the caller graph for this function:

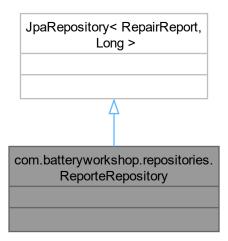


The documentation for this class was generated from the following file:

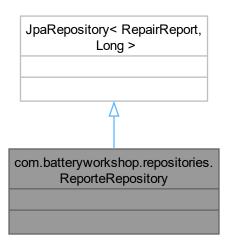
• src/main/java/com/batteryworkshop/controllers/ReporteController.java

5.11 com.batteryworkshop.repositories.ReporteRepository Interface Reference

Inheritance diagram for com.batteryworkshop.repositories.ReporteRepository:



Collaboration diagram for com.batteryworkshop.repositories.ReporteRepository:



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

• src/main/java/com/batteryworkshop/repositories/ReporteRepository.java

5.12 com.batteryworkshop.tests.ReportTest Class Reference

Collaboration diagram for com.batteryworkshop.tests.ReportTest:

com.batteryworkshop.tests. ReportTest ~ void setUp() ~ void testCreacionReporte Basico() ~ void testActualizacionEstado() ~ void testCalculoCosteTotal() ~ void testValidacionCostes Negativos() ~ void testValidacionPasos Invalidos() ~ void testGeneracionJson()

5.12.1 Detailed Description

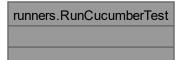
Pruebas unitarias para la clase RepairReport. Verifica el correcto funcionamiento de la creación y gestión de reportes de reparación.

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

• src/test/java/com/batteryworkshop/tests/ReportTest.java

5.13 runners.RunCucumberTest Class Reference

Collaboration diagram for runners.RunCucumberTest:



5.13.1 Detailed Description

Test runner for Cucumber tests.

This test runner is configured to use the JUnit Platform and the Cucumber engine. It looks for feature files located in the "features" directory on the classpath and defines the glue code location and reporting format.

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

• src/test/java/runners/RunCucumberTest.java

5.14 com.batteryworkshop.models.WorkOrder.Status Enum Reference

Enum representing the possible statuses of a work order.

Collaboration diagram for com.batteryworkshop.models.WorkOrder.Status:

com.batteryworkshop.models. WorkOrder.Status + PENDING + STARTED + DELAYED + COMPLETED

Public Attributes

- PENDING
- STARTED

< Work order is pending

- DELAYED
 - < Work order has started
- COMPLETED
 - < Work order is delayed

5.14.1 Detailed Description

Enum representing the possible statuses of a work order.

5.14.2 Member Data Documentation

5.14.2.1 COMPLETED

 $\verb|com.batteryworkshop.models.WorkOrder.Status.COMPLETED|\\$

< Work order is delayed

Work order is completed

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

src/main/java/com/batteryworkshop/models/WorkOrder.java

5.15 steps.StepDefinitions Class Reference

Collaboration diagram for steps.StepDefinitions:

steps.StepDefinitions + void el_cliente_tiene _una_batería_con_número _de_serie(String modelo) + void creo_un_nuevo _informe_de_reparación _con_descripción(String descripcion) + void el_informe_se _crea_correctamente() + void el_estado_del _informe_es(String estadoEsperado) + void existe_un_informe _de_reparación_para_la batería(String modelo) + void agrego_un_item con precio(String descripcion, String precio) + void el_informe_tiene _items(int cantidadEsperada) + void el_precio_total del informe es(String precioEsperado)

Public Member Functions

- void el_cliente_tiene_una_batería_con_número_de_serie (String modelo)
- void creo_un_nuevo_informe_de_reparación_con_descripción (String descripcion)
- void el_informe_se_crea_correctamente ()
- void el_estado_del_informe_es (String estadoEsperado)
- void existe_un_informe_de_reparación_para_la_batería (String modelo)
- void agrego_un_item_con_precio (String descripcion, String precio)
- void el_informe_tiene_items (int cantidadEsperada)
- void el_precio_total_del_informe_es (String precioEsperado)

5.15.1 Detailed Description

Class containing step definitions for Cucumber tests related to battery repair reports.

5.15.2 Member Function Documentation

5.15.2.1 agrego_un_item_con_precio()

Adds an item with a description and price to the repair report.

Parameters

descripcion	Description of the item.
precio	Price of the item in string format.

Here is the call graph for this function:



Here is the caller graph for this function:



5.15.2.2 creo_un_nuevo_informe_de_reparación_con_descripción()

Creates a new repair report with a description.

Parameters

descripcion	Description of the repair report.
-------------	-----------------------------------

Here is the call graph for this function:



Here is the caller graph for this function:



5.15.2.3 el_cliente_tiene_una_batería_con_número_de_serie()

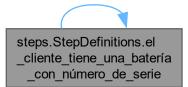
```
void steps. Step Definitions.el_cliente_tiene_una_batería_con_número_de_serie ( String modelo) [inline]
```

Registers a client with a battery model and a fixed base cost.

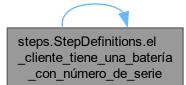
Parameters

modelo Battery model provided by the client.

Here is the call graph for this function:



Here is the caller graph for this function:



5.15.2.4 el_estado_del_informe_es()

Validates the status of the repair report.

Parameters

estadoEsperado	Expected status of the repair report.
----------------	---------------------------------------

Here is the call graph for this function:

steps.StepDefinitions.el _estado_del_informe_es

Here is the caller graph for this function:

steps.StepDefinitions.el _estado_del_informe_es

5.15.2.5 el_informe_se_crea_correctamente()

 $\verb|void steps.StepDefinitions.el_informe_se_crea_correctamente | () | [inline]|\\$

Verifies that the repair report is created correctly. Here is the call graph for this function:

steps.StepDefinitions.el _informe_se_crea_correctamente

Here is the caller graph for this function:



5.15.2.6 el_informe_tiene_items()

Validates the number of items in the repair report.

Parameters

cantidadEsperada	Expected number of items in the report.
------------------	---

Here is the call graph for this function:



Here is the caller graph for this function:



5.15.2.7 el_precio_total_del_informe_es()

```
void steps.StepDefinitions.el_precio_total_del_informe_es ( String\ precioEsperado) \quad [inline]
```

Validates the total price of the repair report.

Parameters

precioEsperado	Expected total price of the repair report.
----------------	--

Here is the call graph for this function:



Here is the caller graph for this function:



5.15.2.8 existe_un_informe_de_reparación_para_la_batería()

```
\label{lem:conditions} void \ steps. StepDefinitions. existe\_un\_informe\_de\_reparación\_para\_la\_batería \ ( \\ String \ \textit{modelo}) \ \ [inline]
```

Creates a repair report for a specific battery model.

Parameters

modelo	Model of the battery for which the repair report is created.
--------	--

Here is the call graph for this function:



Here is the caller graph for this function:



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

• src/test/java/steps/StepDefinitions.java

5.16 com.batteryworkshop.models.User Class Reference

Represents a user in the system.

Collaboration diagram for com.batteryworkshop.models.User:

com.batteryworkshop.models.User

- + User(String name, String password)
- + User(String name, String password, String role)
- + boolean login(String name, String password)
- + boolean hasPermission (String permission)
- + String getName()
- + String getPassword()
- [static initializer]

Public Member Functions

• User (String name, String password)

Constructs a new User with a default role of "OPERATOR".

• User (String name, String password, String role)

Constructs a new User with a specified role.

• boolean login (String name, String password)

Authenticates the user by validating the name and password.

• boolean hasPermission (String permission)

Checks if the user has a specific permission.

String getName ()

Gets the name of the user.

• String getPassword ()

Gets the password of the user.

5.16.1 Detailed Description

Represents a user in the system.

This class manages user data, authentication, and permission checks.

5.16.2 Constructor & Destructor Documentation

5.16.2.1 User() [1/2]

Constructs a new User with a default role of "OPERATOR".

Parameters

name	The name of the user.
password	The password of the user.

5.16.2.2 User() [2/2]

Constructs a new User with a specified role.

Parameters

name	The name of the user.
password	The password of the user.
role	The role of the user.

5.16.3 Member Function Documentation

5.16.3.1 getName()

```
String com.batteryworkshop.models.User.getName () [inline]
```

Gets the name of the user.

Returns

The name of the user.

5.16.3.2 getPassword()

```
String com.batteryworkshop.models.User.getPassword () [inline]
```

Gets the password of the user.

Returns

The password of the user.

5.16.3.3 hasPermission()

```
\begin{tabular}{ll} boolean $\tt com.batteryworkshop.models.User.hasPermission ( \\ String $\tt permission)$ [inline] \\ \end{tabular}
```

Checks if the user has a specific permission.

Parameters

Returns

True if the user has the specified permission, otherwise false.

5.16.3.4 login()

Authenticates the user by validating the name and password.

Parameters

name	The name to authenticate.
password	The password to authenticate.

Returns

True if the name and password match, otherwise false.

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

• src/main/java/com/batteryworkshop/models/User.java

5.17 steps. User Step Definitions Class Reference

Collaboration diagram for steps. UserStepDefinitions:

steps.UserStepDefinitions + void un usuario con _nombre_y_contraseña (String nombre, String contraseña) + void un usuario con nombre contraseña _y_tipo(String nombre, String contraseña, String tipo) + void inicia sesion con nombre y contraseña (String nombre, String contraseña) + void intenta acceder _a_un_metodo_restringido() + void el inicio de sesion es_exitoso() + void el inicio de sesion _falla() + void se permite el _acceso() + void se deniega el _acceso() + void el usuario esta autenticado()

Public Member Functions

- void un_usuario_con_nombre_y_contraseña (String nombre, String contraseña)
- void un_usuario_con_nombre_contraseña_y_tipo (String nombre, String contraseña, String tipo)
- void inicia_sesion_con_nombre_y_contraseña (String nombre, String contraseña)
- · void intenta acceder a un metodo restringido ()
- void el_inicio_de_sesion_es_exitoso ()
- void el_inicio_de_sesion_falla ()
- void se_permite_el_acceso ()
- void se_deniega_el_acceso ()
- void el_usuario_esta_autenticado ()

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

src/test/java/steps/UserStepDefinitions.java

5.18 com.batteryworkshop.models.WorkOrder Class Reference

Represents a work order in the system.

Collaboration diagram for com.batteryworkshop.models.WorkOrder:

com.batteryworkshop.models. WorkOrder

- + Status getStatus()
- + void setStatus(Status status)
- + int getWorkOrderId()
- + void setWorkOrderId (int workorder_id)
- + int getUserId()
- + void setUserId(int user_id)
- + String getDescription()
- + void setDescription (String description)
- + Date getOpenDate()
- + void setOpenDate(Date open_date)

and 8 more...

Classes

enum Status

Enum representing the possible statuses of a work order.

Public Member Functions

• Status getStatus ()

Gets the status of the work order.

• void setStatus (Status status)

Sets the status of the work order.

• int getWorkOrderId ()

Gets the work order ID.

void setWorkOrderId (int workorder_id)

Sets the work order ID.

• int getUserId ()

Gets the user ID.

• void setUserId (int user id)

Sets the user ID associated with the work order.

String getDescription ()

Gets the description of the work order.

• void setDescription (String description)

Sets the description of the work order.

Date getOpenDate ()

Gets the open date of the work order.

void setOpenDate (Date open date)

Sets the open date of the work order.

Date getCloseDate ()

Gets the close date of the work order.

void setCloseDate (Date close_date)

Sets the close date of the work order.

List< Battery > getBatteries ()

Gets the batteries associated with the work order.

void addBattery (@org.jetbrains.annotations.NotNull Battery battery)

Adds a battery to the work order.

void markBatteryAsCompleted (Battery battery)

Marks a specified battery as completed.

List< Battery > getCompletedBatteries ()

Gets all completed batteries.

List< Battery > getIncompleteBatteries ()

Gets all incomplete batteries.

· void removeBattery (Battery battery)

Removes a battery from the work order.

5.18.1 Detailed Description

Represents a work order in the system.

A work order contains a list of batteries, user information, status, and important dates.

5.18.2 Member Function Documentation

5.18.2.1 addBattery()

```
void com.batteryworkshop.models.WorkOrder.addBattery (
    @org.jetbrains.annotations.NotNull Battery battery) [inline]
```

Adds a battery to the work order.

Parameters

battery The battery to be added to the work order.

Newly added batteries are marked as incomplete by default.

5.18.2.2 getBatteries()

```
List< Battery > com.batteryworkshop.models.WorkOrder.getBatteries () [inline]
```

Gets the batteries associated with the work order.

Returns

The list of batteries in the work order.

5.18.2.3 getCloseDate()

```
Date com.batteryworkshop.models.WorkOrder.getCloseDate () [inline]
```

Gets the close date of the work order.

Returns

The date the work order was closed.

5.18.2.4 getCompletedBatteries()

```
List< Battery > com.batteryworkshop.models.WorkOrder.getCompletedBatteries () [inline]
```

Gets all completed batteries.

Returns

A list of completed batteries in the work order.

5.18.2.5 getDescription()

```
String com.batteryworkshop.models.WorkOrder.getDescription () [inline]
```

Gets the description of the work order.

Returns

The description of the work order.

5.18.2.6 getIncompleteBatteries()

```
List< Battery > com.batteryworkshop.models.WorkOrder.getIncompleteBatteries () [inline]
```

Gets all incomplete batteries.

Returns

A list of incomplete batteries in the work order.

5.18.2.7 getOpenDate()

```
Date com.batteryworkshop.models.WorkOrder.getOpenDate () [inline]
```

Gets the open date of the work order.

Returns

The date the work order was opened.

5.18.2.8 getStatus()

```
Status com.batteryworkshop.models.WorkOrder.getStatus () [inline]
```

Gets the status of the work order.

Returns

The current status of the work order.

5.18.2.9 getUserId()

```
int com.batteryworkshop.models.WorkOrder.getUserId () [inline]
```

Gets the user ID.

Returns

The user ID associated with the work order.

5.18.2.10 getWorkOrderId()

```
int com.batteryworkshop.models.WorkOrder.getWorkOrderId () [inline]
```

Gets the work order ID.

Returns

The ID of the work order.

5.18.2.11 markBatteryAsCompleted()

Marks a specified battery as completed.

Parameters

battery	The battery to mark as completed.
ballery	The battery to mark as completed.

Ensures the battery is part of the current work order before marking it as completed.

5.18.2.12 removeBattery()

Removes a battery from the work order.

Parameters

ry to be removed from the work order.	battery	
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5.18.2.13 setCloseDate()

```
\begin{tabular}{ll} \begin{tabular}{ll} void & com.batteryworkshop.models.WorkOrder.setCloseDate & ( & Date & close\_date) & [inline] \end{tabular}
```

Sets the close date of the work order.

Parameters

aca data	The new close date of the work order.

5.18.2.14 setDescription()

Sets the description of the work order.

Parameters

description	The new description of the work order.
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5.18.2.15 setOpenDate()

```
void com.batteryworkshop.models.WorkOrder.setOpenDate ( {\tt Date\ open\_date}) \quad [{\tt inline}]
```

Sets the open date of the work order.

Parameters

open_date	The new open date of the work order.
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5.18.2.16 setStatus()

```
void com.batteryworkshop.models.WorkOrder.setStatus ( {\tt Status} \ \ status) \quad \hbox{[inline]}
```

Sets the status of the work order.

Parameters

status The new status of the work ord	ler.
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5.18.2.17 setUserId()

```
void com.batteryworkshop.models.WorkOrder.setUserId ( int \ user\_id) \quad [inline]
```

Sets the user ID associated with the work order.

Parameters

user⇔	The new user ID.
_id	

5.18.2.18 setWorkOrderId()

Sets the work order ID.

Parameters

workorder←	The new work order ID.
id	

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

• src/main/java/com/batteryworkshop/models/WorkOrder.java