Class Model

Diagrama de clases

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pfc

servidor



Figure 1 : servidor

servidor::Main

Type: public Class {leaf}

Status: Proposed. Version 1.0. Phase 1.0.

Package: servidor

Details: Created on 16/07/2009 11:35:20. Modified on 16/07/2009 11:35:20. Author: Jose Antonio Jamilena Daza.

Cargador inicial.

servidor::Main Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(Main.class); |

servidor::Main Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| Main () | private: |  |
| main (String[]) | public static: void | param: args [ String[] - in ]   argumentos.  main. |

conexion



Figure 2 : conexion

conexion::Comun

Type: public Class {leaf}

Status: Proposed. Version 1.0. Phase 1.0.

Package: conexion

Details: Created on 16/07/2009 11:35:17. Modified on 16/07/2009 11:35:17. Author: Jose Antonio Jamilena Daza.

Metodos compartidos.

Connections

Association link to class Estadisticas

Association link from class Comun

conexion::Comun Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(Comun.class); |
| comun | private static : Comun | Instancia Singleton.  Initial Value: null; |
| estadisticas | private static : Estadisticas | Instancia de Estadisticas.  Initial Value: null; |
| hostname | private static : String | Hostname.  Initial Value: ""; |
| configProperties | private : Properties | properties de configuracion. |

conexion::Comun Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| Comun () | private: | Constructor. |
| getComun () | public static: Comun | Obtiene instancia de Comun. @return instancia de Comun. |
| iniciarPropiedades () | private: void | Iniciar properties. |
| getConfigProperties () | public: Properties | @return the ConfigProperties |
| getEstadisticas () | public static: Estadisticas | @return the estadisticas |
| getHostname () | public: String | @return the hostname |

conexion::Crono

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: conexion

Details: Created on 16/07/2009 11:35:18. Modified on 16/07/2009 11:35:18. Author: Jose Antonio Jamilena Daza.

Crono se encarga de medir el tiempo.

Connections

Association link from class TaskSQL <tareas>

Association link from class TaskPLSQL <tareas>

conexion::Crono Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| t0 | private : java.util.Date | tiempo inicial. |
| t1 | private : java.util.Date | tiempo final. |

conexion::Crono Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| Crono () | public: | Constructor. |
| inicializa () | public const: void | Inicia la cuenta. |
| tiempo () | public const: long | Devuelve el tiempo desde el inicio de cuenta en segundos. @return tiempo desde el inicio. |

conexion::Estadisticas

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: conexion

Details: Created on 16/07/2009 11:35:18. Modified on 16/07/2009 11:35:18. Author: Jose Antonio Jamilena Daza.

Estadisticas.

Connections

Association link from class Comun

conexion::Estadisticas Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(Estadisticas.class); |
| uno | private const : int | 1.  Initial Value: 1; |
| dos | private const : int | 2.  Initial Value: 2; |
| tres | private const : int | 3.  Initial Value: 3; |
| cuatro | private const : int | 4.  Initial Value: 4; |
| cinco | private const : int | 5.  Initial Value: 5; |
| conexion | private : Connection | conexion.  Initial Value: null; |
| configProperties | private : Properties | properties. |

conexion::Estadisticas Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| Estadisticas (String, String, String) | public: | param: driver [ String - in ]   driver JDBC.  param: url [ String - in ]   enlace.  param: properties [ String - in ]   fichero de properties para Estadisticas.  Constructor. |
| iniciarPropiedades (String) | private: void | param: prop [ String - in ]   nombre del fichero.  Iniciar propiedades. |
| insertarEstadistica (long, String, String, String) | public const: void | param: tiempo [ long - in ]   tiempo.  param: tipoConsultaStr [ String - in ]   tipo de consulta como cadena de texto.  param: sgbd [ String - in ]  param: host [ String - in ]  Insertar estadisticas en la base de datos. |
| iniciarEstructuraEnBD (Connection) | private: void | param: conn [ Connection - in ]   conexion a la base de datos.  inicializa la tabla en la que se guardan las estadisticas. |
| consultaSQL (String) | private: String | param: s [ String - in ]   consulta SQL.  Lanza la consulta SQL. @return resultado. |
| mostrarMedia () | public const: String | Media de tiempos del fichero. @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |
| mostrarMediaSeleccion () | public const: String | Media de tiempos en consultas de selecion (SELECT). @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |
| mostrarMediaManipulacionDatos () | public const: String | Media de tiempos en manipulacion de datos (INSERT / UPDATE /DELETE). @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |
| mostrarMediaManipulacionTablas () | public const: String | Media de tiempos en manipulacion de tablas (DROP / CREATE). @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |
| mostrarMediaOtrasOperaciones () | public const: String | Media de tiempos de otras operaciones (?). @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |
| mostrarMediaOtrasOperacionesPrueba () | public const: String | Media de tiempos de otras operaciones de la ultima prueba (?). @return tiempo de la media en segundos.  throws = 'SQLException' - @exception java.sql.SQLException excepcion SQL. |

tareas



Figure 3 : tareas

tareas::CargarTareas

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: tareas

Details: Created on 16/07/2009 11:35:19. Modified on 16/07/2009 11:35:19. Author: Jose Antonio Jamilena Daza.

Cargador de tareas.

tareas::CargarTareas Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(CargarTareas.class); |
| tablaScript | private : Map<String, String> | Tareas SQL.  Initial Value: null; |
| tablaConexionScript | private : Map<String, TokenConexion> | ConexiÃ³n SQL.  Initial Value: null; |
| tablaPlsql | private : Map<String, String> | Tareas PLSQL.  Initial Value: null; |
| tablaConexionPlsql | private : Map<String, TokenConexion> | ConexiÃ³n PLSQL.  Initial Value: null; |
| numeroTokens | private const : int | NÃºmero de tokens que espera de cada linea del fichero de tareas.  Initial Value: 8; |

tareas::CargarTareas Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| CargarTareas () | private: | Contructor. |
| CargarTareas (String) | public: | param: nombreFichero [ String - in ]   fichero.  Carga las tareas del fichero.  throws = 'IOException' - @exception java.io.IOException error de lectura. |
| getTablaScript () | public const: Map<String, String> | @return the tablaScript |
| getTablaPlsql () | public const: Map<String, String> | @return the tablaPlsql |
| getTablaConexionScript () | public: Map<String, TokenConexion> | @return the tablaConexionScript |
| getTablaConexionPlsql () | public: Map<String, TokenConexion> | @return the tablaConexionPlsql |

tareas::TaskPLSQL

Type: public Class  
 Implements: Runnable.

Status: Proposed. Version 1.0. Phase 1.0.

Package: tareas

Details: Created on 16/07/2009 11:35:20. Modified on 16/07/2009 11:35:20. Author: Jose Antonio Jamilena Daza.

Define una tareas PL/SQL.  
@link java.lang.Runnable implementa esta interfaz.

Connections

Association link to class TokenConexion<autenticacion>

Association link to class Crono<conexion>

tareas::TaskPLSQL Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(TaskPLSQL.class); |
| nombreFichero | private : String | Nombre del fichero.  Initial Value: ""; |
| nombreTarea | private : String | Nombre de la tarea.  Initial Value: ""; |
| token | private : TokenConexion | Autenticacion.  Initial Value: null; |
| crn | private : Crono | crono.  Initial Value: new Crono(); |
| t | private : long | tiempo. |

tareas::TaskPLSQL Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| TaskPLSQL () | private: | No se permite el constructor sin parametros. |
| TaskPLSQL (String, String, TokenConexion) | public: | param: nombre [ String - in ]   nombre de la tarea.  param: ficheroPLSQL [ String - in ]   fichero de la tarea.  param: tc [ TokenConexion - in ]   autenticacion  Constructor. |
| run () | public const: void | Sobrecarga el metodo. |
| obtenerTiempo () | public const: long | obtiene tiempo. @return tiempo en segundos. |

tareas::TaskSQL

Type: public Class  
 Implements: Runnable.

Status: Proposed. Version 1.0. Phase 1.0.

Package: tareas

Details: Created on 16/07/2009 11:35:20. Modified on 16/07/2009 11:35:20. Author: Jose Antonio Jamilena Daza.

Define una tareas SQL.  
@link java.lang.Runnable implementa esta interfaz.

Connections

Association link to class TokenConexion<autenticacion>

Association link to class Crono<conexion>

tareas::TaskSQL Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(TaskSQL.class); |
| nombreFichero | private : String | Nombre del fichero.  Initial Value: ""; |
| nombreTarea | private : String | Nombre de la tarea.  Initial Value: ""; |
| token | private : TokenConexion | Autenticacion.  Initial Value: null; |
| crn | private : Crono | crono.  Initial Value: new Crono(); |
| t | private : long | tiempo. |

tareas::TaskSQL Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| TaskSQL () | private: | No se permite contructor sin parÃ¡metros. |
| TaskSQL (String, String, TokenConexion) | public: | param: nombre [ String - in ]   nombre de la tarea.  param: ficheroSQL [ String - in ]   fichero scripts.  param: tc [ TokenConexion - in ]   autenticacion  Constructor. |
| run () | public const: void | MÃ©todo que sobreescribe. |
| obtenerTiempo () | public const: long | obtiene tiempo. @return tiempo en segundos. |

autenticacion



Figure 4 : autenticacion

autenticacion::TokenConexion

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: autenticacion

Details: Created on 16/07/2009 11:35:18. Modified on 16/07/2009 11:35:18. Author: Jose Antonio Jamilena Daza

Token de AutenticaciÃ³n.

Connections

Association link from class TaskSQL <tareas>

Association link from class TaskPLSQL <tareas>

autenticacion::TokenConexion Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| hostname | private : String | Hostname.  Initial Value: ""; |
| driver | private : String | Driver.  Initial Value: ""; |
| cadenaConexion | private : String | Cadena de conexiÃ³n.  Initial Value: ""; |
| usuario | private : String | Usuario.  Initial Value: ""; |
| password | private : String | ContraseÃ±a.  Initial Value: ""; |

autenticacion::TokenConexion Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| TokenConexion (String, String, String, String, String) | public: | param: sgbd [ String - in ]  param: drv [ String - in ]   driver.  param: url [ String - in ]   cadena de conexiÃ³n.  param: user [ String - in ]   usuario.  param: passwd [ String - in ]   contraseÃ±a.  Constructor. |
| getCadenaConexion () | public const: String | @return the cadenaConexion |
| setCadenaConexion (String) | public const: void | param: url [ String - in ]   the cadenaConexion to set |
| getUsuario () | public const: String | @return the usuario |
| setUsuario (String) | public const: void | param: user [ String - in ]   the usuario to set |
| getPassword () | public const: String | @return the password |
| setPassword (String) | public const: void | param: passwd [ String - in ]   the password to set |
| getDriver () | public const: String | @return the driver |
| setDriver (String) | public const: void | param: drv [ String - in ]   the driver to set |
| getHostname () | public const: String | @return the hostname |
| setHostname (String) | public const: void | param: host [ String - in ]  @param hostname the hostname to set |

runner



Figure 5 : runner

runner::PlsqlRunner

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: runner

Details: Created on 16/07/2009 11:35:19. Modified on 16/07/2009 11:35:19. Author: Jose Antonio Jamilena Daza.

Lanzador de script con procesos PL/SQL.

runner::PlsqlRunner Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(PlsqlRunner.class); |
| conexion | private : Connection | conexion.  Initial Value: null; |
| listaDeConsultas | private : List < String > | lista de consultas.  Initial Value: null; |

runner::PlsqlRunner Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| PlsqlRunner (Connection) | public: | param: connection [ Connection - in ]   coneexiÃ³n JDBC.  Lanzador SQL. |
| PlsqlRunner (String, String, String, String) | public: | param: driver [ String - in ]   driver.  param: url [ String - in ]   cadena de cconexiÃ³n.  param: username [ String - in ]   usuario.  param: password [ String - in ]   contraseÃ±a.  Lanzador SQL.  throws = 'IOException,SQLException,ClassNotFoundException' - @exception java.lang.ClassNotFoundException driver no encontrado. @exception java.sql.SQLException fallo en JDBC. @exception java.io.IOException fallo de lectura. |
| consultaSQL (String) | private: void | param: s [ String - in ]   consulta SQL.  lanza la consulta indicada.  throws = 'SQLException' - @exception java.sql.SQLException fallo. |
| runScript (Reader) | public const: void | param: reader [ Reader - in ]   reader.  leer script SQL.  throws = 'IOException,SQLException' - @exception java.sql.SQLException fallo JDBC. @exception java.io.IOException error de lectura. |

runner::SqlRunner

Type: public Class

Status: Proposed. Version 1.0. Phase 1.0.

Package: runner

Details: Created on 16/07/2009 11:35:19. Modified on 16/07/2009 11:35:19. Author: Jose Antonio Jamilena Daza.

Lanzador de script con procesos SQL.

runner::SqlRunner Attributes

|  |  |  |
| --- | --- | --- |
| Attribute | Type | Notes |
| logger | private static : Logger | Logger.  Initial Value: Logger.getLogger(SqlRunner.class); |
| conexion | private : Connection | conexion.  Initial Value: null; |
| listaDeConsultas | private : List < String > | lista de consultas.  Initial Value: null; |

runner::SqlRunner Methods

|  |  |  |
| --- | --- | --- |
| Method | Type | Notes |
| SqlRunner (Connection) | public: | param: connection [ Connection - in ]   coneexiÃ³n JDBC.  Lanzador SQL. |
| SqlRunner (String, String, String, String) | public: | param: driver [ String - in ]   driver.  param: url [ String - in ]   cadena de cconexiÃ³n.  param: username [ String - in ]   usuario.  param: password [ String - in ]   contraseÃ±a.  Lanzador SQL.  throws = 'IOException,SQLException,ClassNotFoundException' - @exception java.lang.ClassNotFoundException driver no encontrado. @exception java.sql.SQLException fallo en JDBC. @exception java.io.IOException fallo de lectura. |
| consultaSQL (String) | private: void | param: s [ String - in ]   consulta SQL.  lanza la consulta indicada.  throws = 'SQLException' - @exception java.sql.SQLException fallo. |
| runScript (Reader) | public const: void | param: reader [ Reader - in ]   reader.  leer script SQL.  throws = 'SQLException,IOException' - @exception java.sql.SQLException fallo JDBC. @exception java.io.IOException error de lectura. |