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DataBaseServletListener
+contextDestroyed(arg0 : ServletContextEvent) : void
+contextInitialized(arg0 : ServletContextEvent) : void
```

```
<<Singleton>>
DataBase
serialVersionUID = 6237085407072299276L
DB_URL : String = jdbc:2-WOYMtimeable.db/ timetable
DB_LOCATION_PATH : String = System
.getProperty("user.home")
+ File.separator
+ "WOYM"
+ File.separator + "timetable.db"
DB_BACKUP_LOCATION : String = System
.getProperty("user.home")
+ File.separator
+ "WOYM"
+ File.separator
USER : String = "timetable"
PASSWORD : String = "timetable"
LOGGER : Logger = LogManager.getLogger("DataBase")
entityManager : EntityManager
INSTANCE : DataBase = new DataBase()
DataBase()
getInstance() : DataBase
getEntityManager() : EntityManager
backup(backupName : String) : String
restore(filePath : String) : void
setUp() : void
setUpDown() : void
backup() : String
checkZip(filePath : String) : boolean
deleteFolder(folder : File) : void
copyDirectory(src : File, dest : File) : void
```

1 has 1 observer

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<<Singleton>>
DataAccess
LOGGER : Logger = LogManager.getLogger("Persistence")
em : EntityManager = Database.getInstance().getEntityManager()
INSTANCE : DataAccess = new DataAccess()
DataAccess()
getInstance() : DataAccess
+update() : Observable<arg : Object> : void
+getIAAcademicYears() : List<AcademicYear>
+getOneAcademicYear(year : int) : AcademicYear
+getAISchoolclasses() : List<Schoolclass>
+getOneSchoolclass(academicYear : int, identifier : char) : Schoolclass
+getAIPAs() : List<PedagogicAssistant>
+getAITeachers() : List<Teacher>
+getOneEmployee(symbol : String) : Employee
+searchEmployees(searchSymbol : String) : List<Employee>
+searchTeachers(searchSymbol : String) : List<Teacher>
+searchPAAs(searchSymbol : String) : List<PedagogicAssistant>
+getAILocations() : List<Location>
+getOneLocation(name : String) : Location
+getAIRooms(purpose : String) : List<Room>
+getOneRoom(locationName : String, roomName : String) : Room
+getRoomPurposes() : List<String>
+getIAActivityTypes() : List<ActivityType>
+getIAMeetingTypes() : List<MeetingType>
+getIALessonTypes() : List<LessonType>
+getIAProjectTypes() : List<ProjectType>
+getOneActivityType(name : String) : ActivityType
+getIAActivities() : List<Activity>
+getIAActivitiesNotBetween(startTime : Date, endTime : Date) : List<Activity>
+getAIClassrooms() : List<Classroom>
+getById(clazz : Class<E>, id : Long) : E
+getTravelTimeList() : TravelTimeList
+getIA(clazz : Class<? extends Serializable>, orderBy : String) : List<? extends Serializable>
+persist(object : Entity) : void
+update(object : Entity) : void
+delete(object : Entity) : void
+getOneAcademicYear(schoolclass : Schoolclass) : AcademicYear
+getAISchoolclasses(teacher : Teacher) : List<Schoolclass>
+getAISchoolclasses(WithoutClassroom) : List<Schoolclass>
+getOneSchoolclass(room : Room) : Schoolclass
+getAIEmployees(activityType : ActivityType) : List<Employee>
+getOneLocation(room : Room) : Location
+getIAActivityTypes(room : Room) : List<ActivityType>
+getIAActivities(weekday : Weekday) : List<Activity>
+getIAActivities(employee : Employee) : List<Activity>
+getIAActivities(object : ActivityObject) : List<Activity>
+getIAActivities(schoolclass : Schoolclass) : List<Activity>
+getIAActivities(room : Room) : List<Activity>
+getIAActivities(employee : Employee, weekday : Weekday) : List<Activity>
+getIAActivities(employee : Employee, timePeriod : TimePeriod) : List<Activity>
+getIAActivities(schoolclass : Schoolclass, timePeriod : TimePeriod) : List<Activity>
+getIAActivities(room : Room, timePeriod : TimePeriod) : List<Activity>
+getIACompoundLessons(lessonType : LessonType) : List<CompoundLesson>
+getIALessons(lessonType : LessonType) : List<Lesson>
+getIAMeetings(meetingType : MeetingType) : List<Meeting>
+getEmployeeTimePeriods(employee : Employee) : List<EmployeeTimePeriods>
+getAIClassrooms(employee : Employee) : List<Classroom>
+getOneClassroom(schoolclass : Schoolclass) : Classroom
+getUsedChars(academicYear : AcademicYear) : List<Character>
+searchEmployees(clazz : Class<? extends Employee>, searchSymbol : String) : List<? extends Serializable>
```