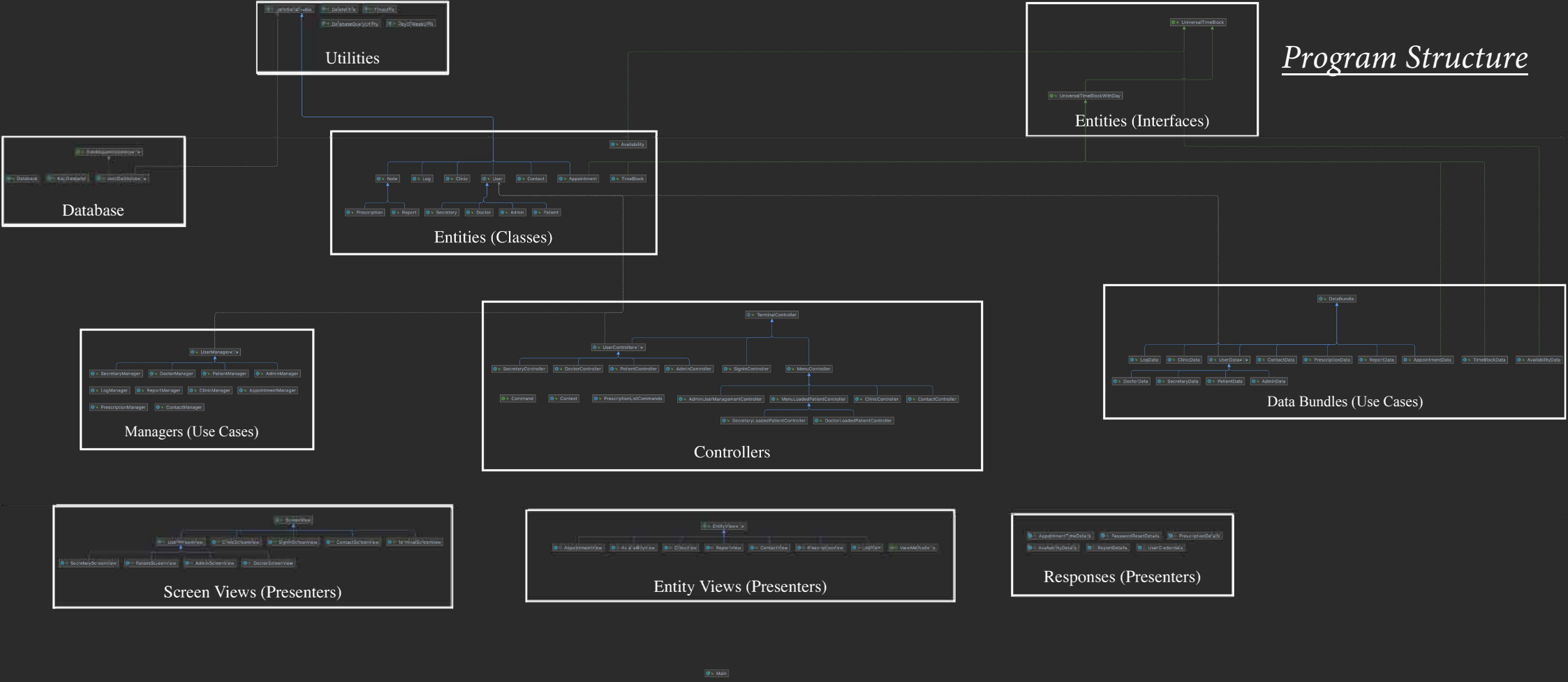
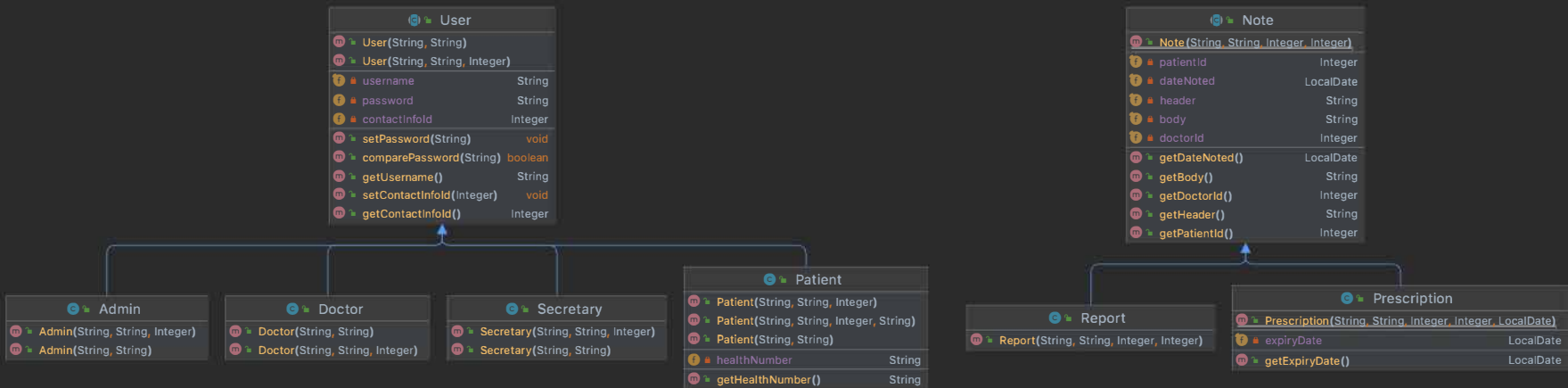
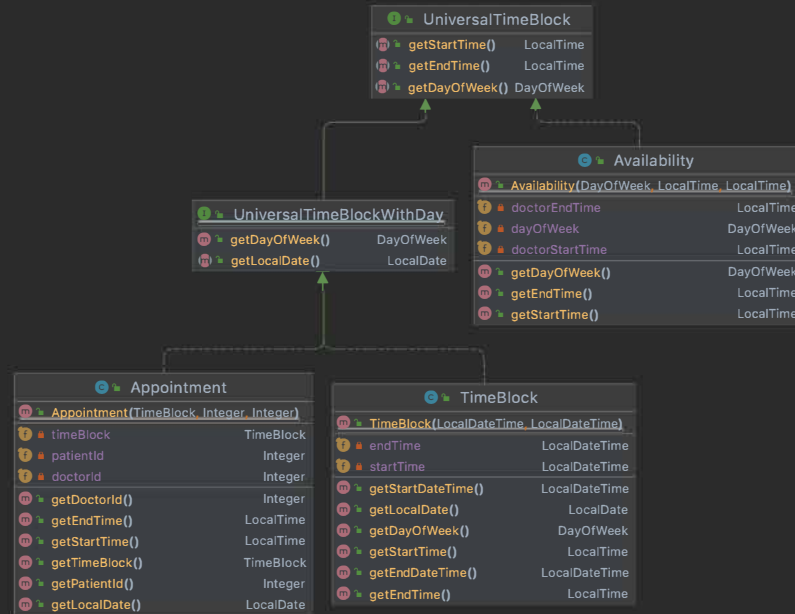


Program Structure



Entities

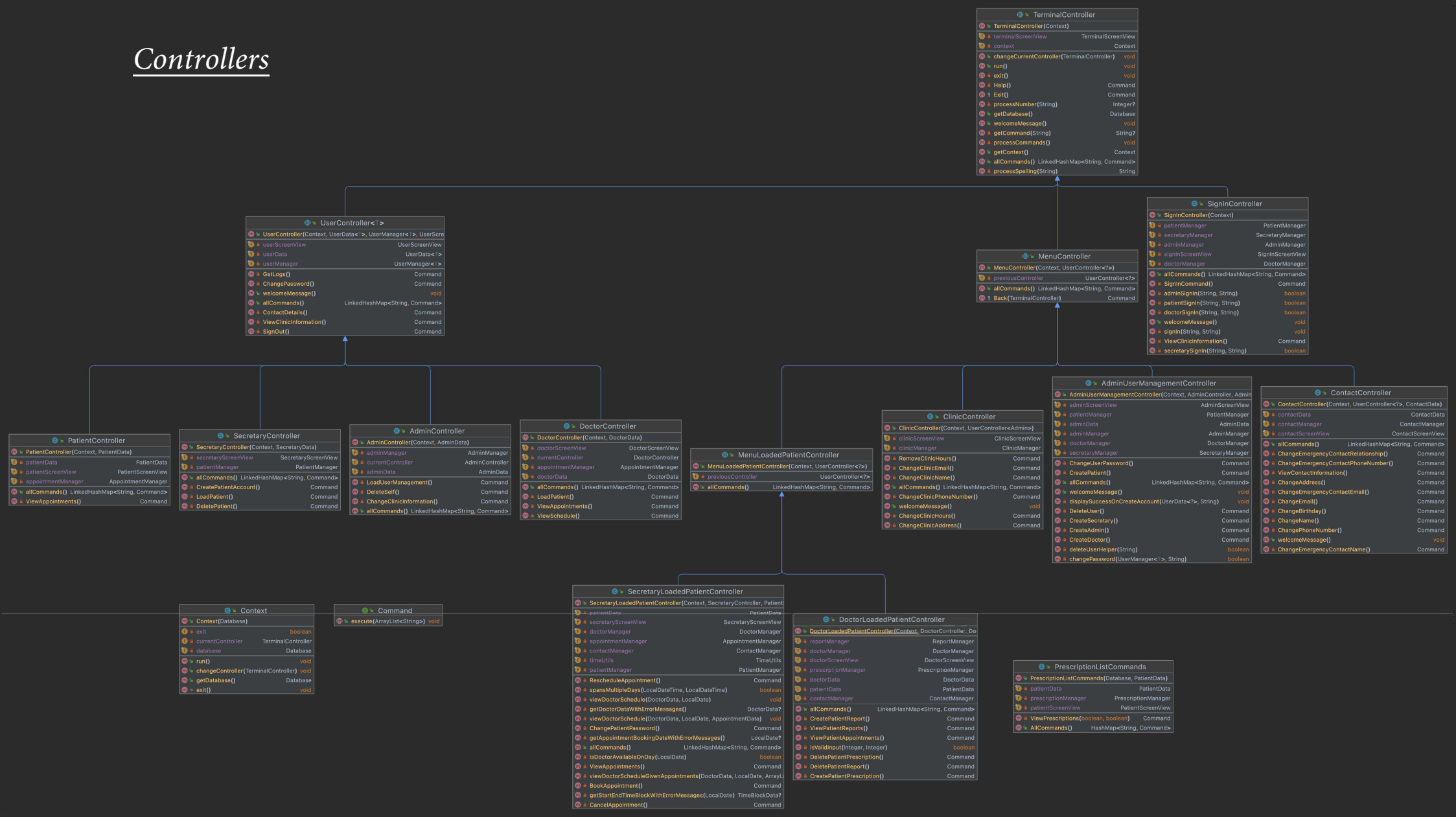
Contact	
➤ Contact(String, String, String, String, LocalDate, String, String)	
➤ Contact()	
➤ emergencyContactPhoneNumber	String
➤ phoneNumber	String
➤ emergencyRelationship	String
➤ emergencyContactEmail	String
➤ address	String
➤ emergencyContactName	String
➤ name	String
➤ email	String
➤ birthday	LocalDate
➤ getPhoneNumber()	String
➤ setEmergencyRelationship(String)	void
➤ getAddress()	String
➤ getBirthday()	LocalDate
➤ setBirthday(LocalDate)	void
➤ setEmergencyContactEmail(String)	void
➤ getEmergencyContactEmail()	String
➤ getEmergencyContactName()	String
➤ setEmergencyContactPhoneNumber(String)	void
➤ getEmergencyContactPhoneNumber()	String
➤ setAddress(String)	void
➤ getEmail()	String
➤ setEmergencyContactName(String)	void
➤ setEmail(String)	void
➤ setName(String)	void
➤ setPhoneNumber(String)	void
➤ getEmergencyRelationship()	String
➤ getName()	String



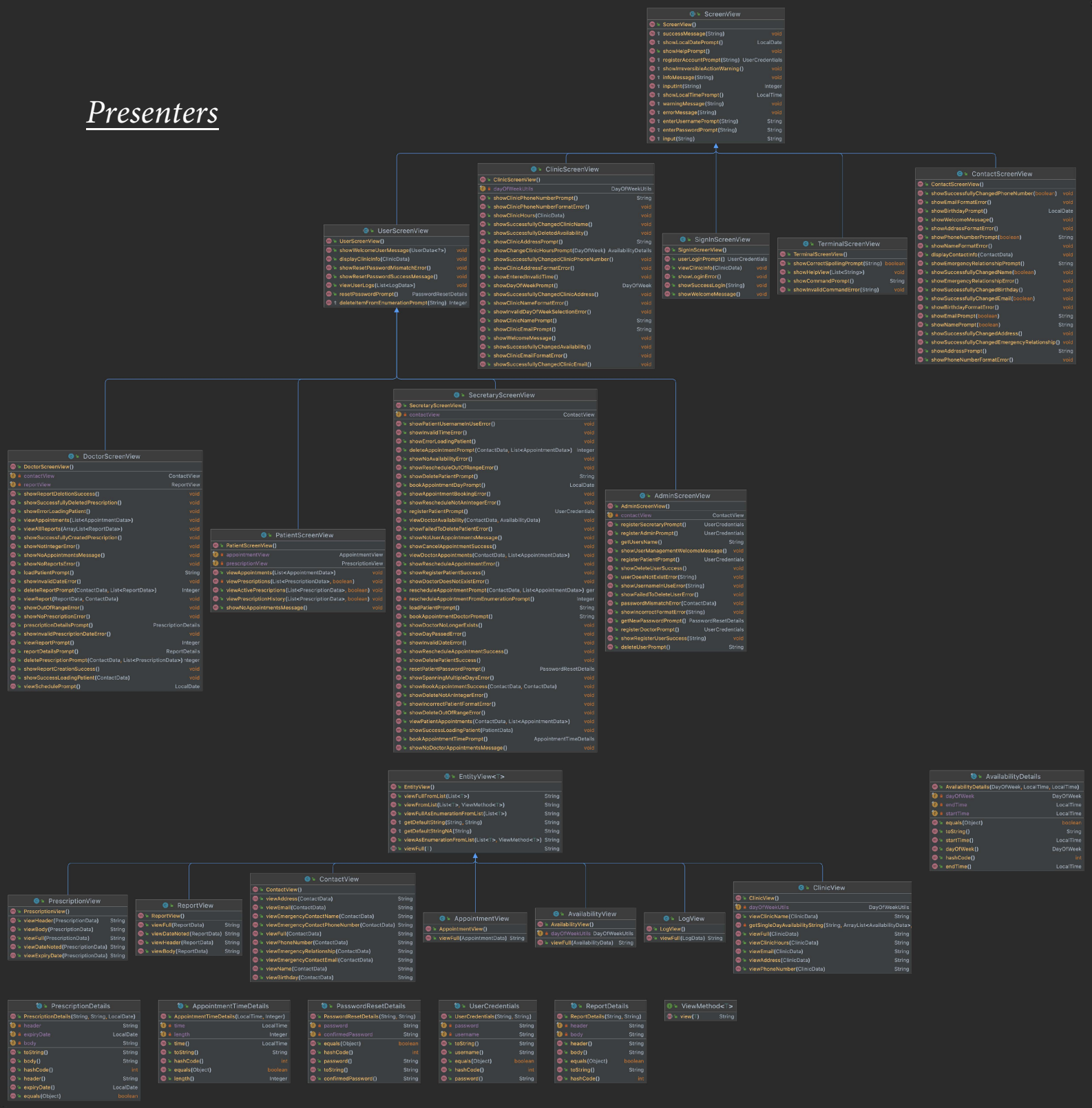
Clinic	
➤ Clinic(String, String, String, String, ArrayList<Availability>)	
➤ email	String
➤ clinicHours	ArrayList<Availability>
➤ name	String
➤ phoneNumber	String
➤ address	String
➤ getPhoneNumber()	String
➤ removeClinicHours(DayOfWeek)	void
➤ addClinicHours(Availability)	void
➤ getEmail()	String
➤ setName(String)	void
➤ getClinicHours()	ArrayList<Availability>
➤ setPhoneNumber(String)	void
➤ setEmail(String)	void
➤ setAddress(String)	void
➤ getName()	String
➤ getAddress()	String

Log	
➤ Log(Integer, String)	
➤ message	String
➤ userId	Integer
➤ time	LocalDateTime
➤ getMessage()	String
➤ getUserId()	Integer
➤ getTime()	LocalDateTime

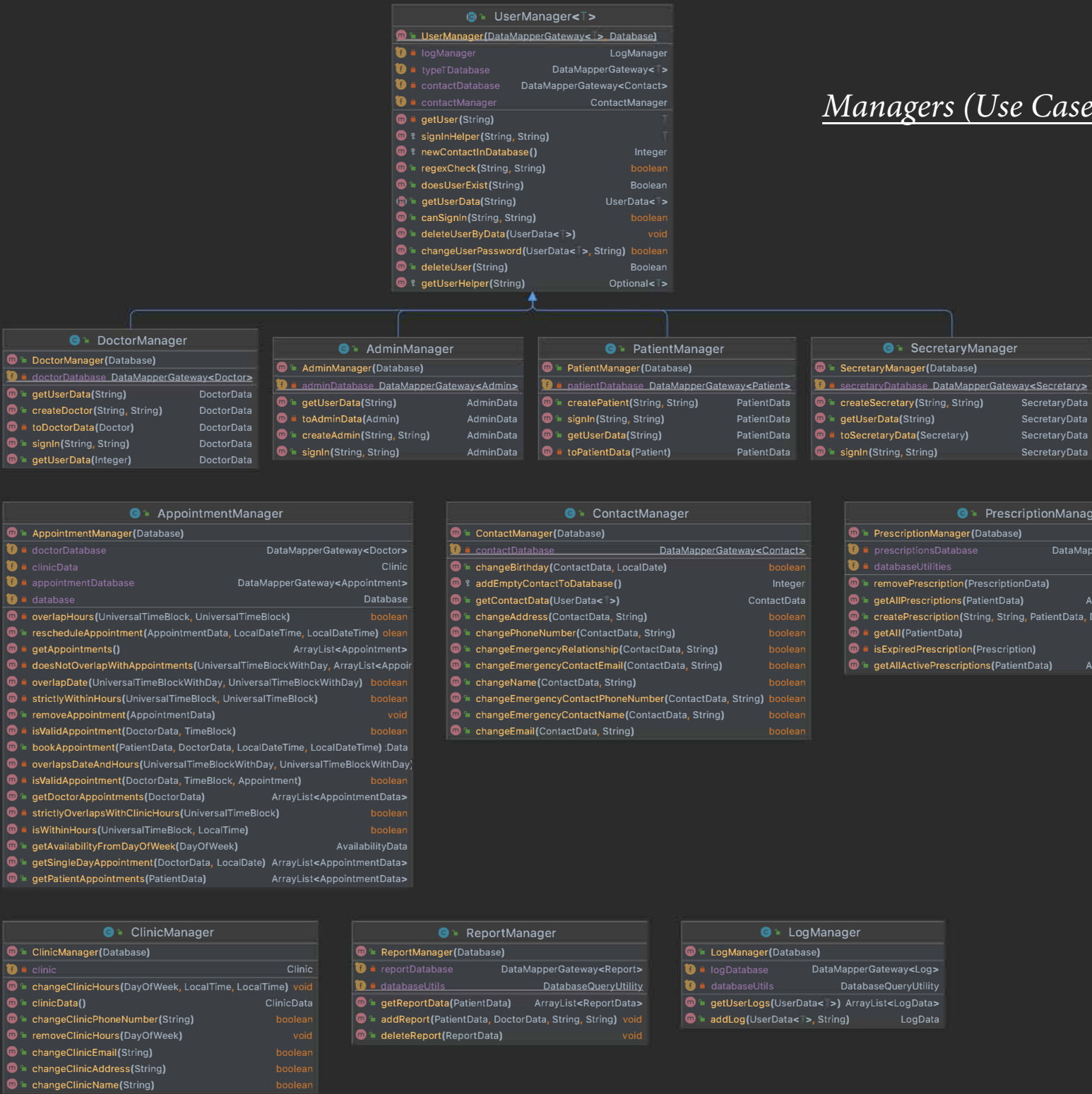
Controllers



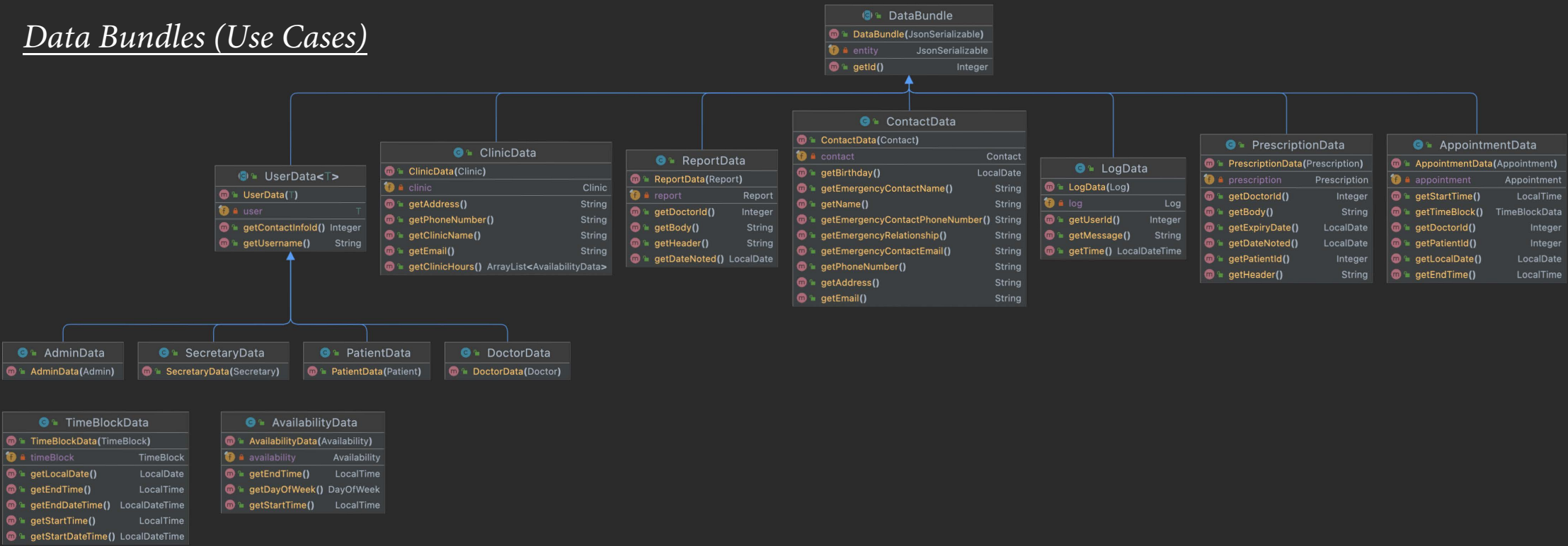
Presenters



Managers (Use Cases)



Data Bundles (Use Cases)



MapperGateway<T>	
	save() void
	get(Integer) T
	add(T) Integer
	getAllIds() HashSet<Integer>
	getByCondition(Predicate<T>) T
	stream() Stream<T>
	remove(Integer) void



JsonDatabase<T>	
	JsonDatabase(Class<T>, File)
	JsonDatabase(Class<T>, KeyDelegator, File)
	type Class<T>
	database HashMap<Integer, T>
	folder File
	gson Gson
	keyDelegator KeyDelegator
	add(T) Integer
	getSaveFile() File
	get(Integer) T
	remove(Integer) void
	getMethodByName(String) Method?
	load() void
	save() void
	getAllIds() HashSet<Integer>
	stream() Stream<T>





Database	
	Database()
	Database(String)
	reportDatabase MapperGateway<Report>
	databaseList List<MapperGateway<?>>
	appointmentDatabase MapperGateway<Appointment>
	doctorDatabase MapperGateway<Doctor>
	secretaryDatabase MapperGateway<Secretary>
	clinicDatabase MapperGateway<Clinic>
	contactDatabase MapperGateway<Contact>
	adminDatabase MapperGateway<Admin>
	patientDatabase MapperGateway<Patient>
	prescriptionDatabase MapperGateway<Prescription>
	logDatabase MapperGateway<Log>
	getPatientDatabase() MapperGateway<Patient>
	getContactDatabase() MapperGateway<Contact>
	save() void
	getReportDatabase() MapperGateway<Report>
	getPrescriptionDatabase() MapperGateway<Prescription>
	getClinic() Clinic
	getLogDatabase() MapperGateway<Log>
	getSecretaryDatabase() MapperGateway<Secretary>
	getAppointmentDatabase() MapperGateway<Appointment>
	setClinic(Clinic) void
	getAdminDatabase() MapperGateway<Admin>
	getDoctorDatabase() MapperGateway<Doctor>




KeyDelegator	
	KeyDelegator(String)
	KeyDelegator()
	uniqueFieldName String
	lastId int
	uniqueFieldObjects HashSet<Object>
	uniqueFieldMethod Method
	canAddItem(Object) boolean
	getNewUniqueId() Integer
	removeItem(Object) void
	getUniqueFieldName() String
	setLastId(int) void
	setUniqueFieldMethod(Method) void
	getLastId() int




Database




	JsonSerializable	
	JsonSerializable()	
	id	Integer
	setId(Integer)	void
	getId()	Integer

Utilities

	DayOfWeekUtils	
	DayOfWeekUtils()	
	dayOfWeekToString(DayOfWeek)	String
	getDayOfWeekStringToEnumMap()	LinkedHashMap<String, DayOfWeek>

	TimeUtils	
	TimeUtils()	
	createTimeBlock(LocalDateTime, LocalDateTime)	TimeBlockData

	DatabaseQueryUtility	
	DatabaseQueryUtility()	
	toArrayList(Stream<T>)	ArrayList<T>

	DeleteUtils	
	DeleteUtils()	
	deleteDirectory(File)	void