1. UML-диаграмма классов-сущностей в статическом виде

|  |
| --- |
| Doctor |
| id: Integer  speciality: String  name: String  surname: String  patronymic: String  isNarrow: Boolean  lotNumber: Integer  begTime: Date  endTime: Date  ticketNumber: Integer  allDuration: Date |
|  |

|  |
| --- |
| Role |
| id: Integer  name: String |
|  |

|  |
| --- |
| Ticket |
| id: Integer  doctor: Doctor  begTime: Date  duration: Date  isFree: Boolean  patientName: String  patientSurname: String  patirntPatronymic: String |
|  |

|  |
| --- |
| User |
| id: Integer  login: String  password: String |
|  |

1. UML-диаграммы классов в аналитическом виде

* Авторизация

|  |
| --- |
| User |
| #id: Integer  #login: String  #password: String |
| +getId(): Integer  +getLogin(): Integer  +getPassword()  +setId(id: Integer): void  +setLogin(login: String): void  +setPassword(password: String): void |

|  |
| --- |
| LoginServlet |
|  |
| +doGet(): void  +doPost(): void  +process(): void |

|  |
| --- |
| UserService |
|  |
| +getConnection(): Connection  +checkUser(user: User): Boolean  +checkUserLogin(user: User): Boolean  +readAll(): ArrayList<User>  +readById(id: Integer): User  +readByLogin(login: String): User  +create(user: User): void  +update(user: User): void  +delete(id: Integer): void |

|  |
| --- |
| RoleService |
|  |
| +getConnection(): Connection  +readAll(): ArrayList<Role>  +readById(id: Integer): Role  +readByName(name: String): Role  +create(role: Role): void  +update(role: Role): void  +delete(id: Integer): void  +deleteUserRole(user: User, role: Role): void  +createUserRole(user: User, role: Role): void  +readUserRoles(user: User): ArrayList<Role>  +checkRoleName(role: Role): Boolean  +checkUserRole(user: User, role: Role): Boolean |

* Отмена авторизации

|  |
| --- |
| LogoutServlet |
|  |
| +doGet(req: HttpServletRequest, resp: HttpServletResponse): void |

* Просмотр списка докторов

|  |
| --- |
| ListDoctorServlet |
|  |
| +doGet(): void |

|  |
| --- |
| DoctorService |
|  |
| +readAll(): ArrayList<Doctor>  +readById(id: Integer): Doctor  +create(doctor: Doctor): void  +update(doctor: Doctor): void  +delete(id: Integer): void |

|  |
| --- |
| Doctor |
| #id: Integer  #speciality: String  #name: String  #surname: String  #patronymic: String  #isNarrow: Boolean  #lotNumber: Integer  #begTime: Date  #endTime: Date  #ticketNumber: Integer  #allDuration: Date |
| +getId(): Integer  +getSpeciality(): String  +getName(): String  +getSurname(): String  +getPatronymic(): String  +getIsNarrow(): Boolean  +getLotNumber(): Integer  +getBegTime(): Date  +getEndTime(): Date  +getTicketNumber(): Integer  +getAllDuration(): Date  +setId(id: Integer): void  +setSpeciality(speciality: String): void  +setName(name: String): void  +setSurname(surname: String): void  +setPatronymic(patronymic: String): void  +setIsNarrow(isNarrow: Boolean): void  +setLotNumber(lotNumber: Integer): void  +setBegTime(begTime: Date): void  +setEndTime(endTime: Date): void  +setTicketNumber(ticketNumber: Integer): void  +setAllDuration(allDuration: Date): void |

* Удаление роли

|  |
| --- |
| DeleteRoleServlet() |
|  |
| +doPost() |

|  |
| --- |
| RoleService |
|  |
| +getConnection(): Connection  +readAll(): ArrayList<Role>  +readById(id: Integer): Role  +readByName(name: String): Role  +create(role: Role): void  +update(role: Role): void  +delete(id: Integer): void  +deleteUserRole(user: User, role: Role): void  +createUserRole(user: User, role: Role): void  +readUserRoles(user: User): ArrayList<Role>  +checkRoleName(role: Role): Boolean  +checkUserRole(user: User, role: Role): Boolean |

|  |
| --- |
| Role |
| #id: Integer  #name: String |
| +getId(): Integer  +getName(): String  +setId(id: Integer): void  +setname(name: String): void |

3) UML-диаграмма последовательностей действий

* Авторизация

/user: unauthorized

getSession()

setAttribute()

/session: HttpSession

getValue()

checkUserRole()

/service: RoleService

readByLogin()

checkUser()

GetParameter()

doPost()

/service: UserService

/entity: User

/form: login-form

/servlet: LoginServlet

* Отмена авторизации

/user: authorized

/session: HttpSession

/servlet: LogoutServlet

removeAttribute()

getSession()

doGet()

* Просмотр списка докторов

/user: nurse

forward()

setAttribute()

getValue()

readAll()

doGet()

/entity: Doctor

/service: DoctorService

/jsp: indexDoctor

/servlet: ListDoctorServlet

* Удаление роли

/service: RoleService

/servlet: DeleteRoleServlet

getValue()

delete()

doPost()

/entity: Role

/user: admin

1. UML-диаграмма развертывания приложения

|  |
| --- |
| Веб-сервер Tomcat  Веб-приложение  lab5.war |

|  |
| --- |
| СУБД PostgreSQL  База данных «lab5» |

JDBC