```
class CatsRepo {
                                                                                                                                                                                                                                                                                                name: {
                                                                                                                         constructor() {
                                                                                                                                                                                                                                                                                                 type: String,
                                                                                                                          this.model = Cat;
                                                                                                                                                                                                                                                                                                 minlength: 3,
                                                                                                                                                                                                                                                                                                 default: "Guest",
                                                                                                                         async getAll(userId) {
                                                                                                                                                                                                                                                                                                sex: {
                                                                                                                          const results = await this.model.find({ owner: userId }).populate({
                                                                                                                                                                                                                                                                                                 type: String,
                                                                                                                            path: "owner",
                                                                                                                                                                                                                                                                                                 enum: {
                                                                                                                            select: "name email sex -_id",
                                                                                                                                                                                                                                                                                                   values: [Sex.MALE, Sex.FEMALE, Sex.NONE],
                                                                                                                                                                                                                                                                                                   message: "This gender isn't allowed",
                                                                                                                           return results;
                                                                                                                                                                                                                                                                                                 default: Sex.NONE,
                                                                         /db/schemas/schCat.js -
                                                                                                                         async getById(id, userId) {
                                                                                                                                                                                                                                                                                                email: {
                                                             const mongoose = require("mongoose");
                                                                                                                                                                                                                                                                                                 type: String,
                                                                                                                                                                                                                         /src/repositories/usersRepo.js
                                                             const { Schema, model } = mongoose;
                                                                                                                            const result = await this.model
                                                                                                                                                                                                                                                                                                  required: [true, "Email is required"],
                                                                                                                               .findOne({ id: id, owner: userId })
                                                                                                                                                                                                     const User = require("../db/schemas/schUser");
                                                                                                                                                                                                                                                                                                  unique: true,
                                                             const catSchema = new Schema(
                                                                                                                               .populate({
                                                                                                                                                                                                                                                                                                  validate(value) {
                                                                                                                                path: "owner",
                                                                                                                                                                                                                                                                                                   const re = /\S+@\S+\.\S+/;
                                                                                                                                                                                                     class UsersRepo {
                   index.js
                                                                                                                                select: "name email sex - id",
                                                                name: {
                                                                                                                                                                                                                                                                                                   return re.test(String(value).toLowerCase());
                                                                                                                                                                                                      constructor()
                  src
                                                                  type: String,
                                                                                                                               });
                                                                                                                                                                                                       this.model = User;
                                                                  required: [true, "Set name for cat"],
                                                                                                                             return result;
                    app.js
                                                                  unique: true,
                                                                                                                           } catch (error) {
                                                                                                                                                                                                                                                                                                password:
                      api
                                                                },
                                                                                                                             error.status = HttpCode.BAD REQUEST;
                                                                                                                                                                                                      async findById(id) {
                                                                                                                                                                                                                                                                                                 type: String,
                      cats
                                                                age: {
                                                                                                                            error.data = "Bad request";
                                                                                                                                                                                                                                                                                                 required: [true, "Password is required"],
                        index.js
                                                                  type: Number,
                                                                                                                             throw error;
                                                                                                                                                                                                         const result = await this.model.findOne({ id: id });
                      users
                                                                  min: 1,
                                                                                                                                                                                                                                                                                                token: {
                                                                                                                                                                                                         return result;
                                                                  max: 25,
                        index.js
                                                                                                                                                                                                                                                                                                 type: String,
                                                                                                                                                                                                       } catch (error) {
                    configs
                                                                                                                                                                                                         error.status = 400;
                                                                                                                                                                                                                                                                                                  default: null,
                                                                isVaccinated: {
                                                                                                                         async create(body, userId) {
                                                                                                                                                                                                          error.data = "Bad request";
                      passport.js
                                                                  type: Boolean,
                                                                                                                          const result = this.model.create({ ...body, owner: userId });
                                                                                                                                                                                                          throw error;
                    controllers
                                                                  default: false,
                                                                                                                          return result;
                      catsController.js
                                                                                                                                                                                                                                                                                               versionKey: false,
                      usersController.
                                                                features: {
                                                                                                                                                                                                                                                                                               timestamps: true, //createdAt and updatedAt
                                                                  type: Array,
                                                                                                                         async update(id, body, userId) {
                                                                                                                                                                                                      async findByEmail(email) {
                                                                  set: (data) => (!data ? [] : data),
                                                                                                                           const result = await this.model.findOneAndUpdate(
                                                                                                                                                                                                       try {
                                                                                                                             { id: id, owner: userId },
                                                                                                                                                                                                         const result = await this.model.findOne({ email });
                      schemas
                                                                owner: {
                                                                                                                            { ...body },
                                                                                                                                                                                                         return result;
                                                                                                                                                                                                                                                                                              / hook .pre и есть .post (перед и после чего-то)
                        schCat.js
                                                                  // type: mongoose.Types.ObjectId,
                                                                                                                            { new: true } // чтоб не возвращал предидущую запись
                                                                                                                                                                                                                                                                                              / .pre("save" - перед сохранением чтото должно быть
                                                                                                                                                                                                        } catch (error) {
                        schUser.js
                                                                  type: mongoose.SchemaTypes.ObjectId,
                                                                                                                                                                                                                                                                                              / в репозитории user.save();
                                                                                                                                                                                                         error.status = 400;
                      index.js
                                                                  ref: "user",
                                                                                                                           return result;
                                                                                                                                                                                                         error.data = "Bad request";
                                                                                                                                                                                                                                                                                             / перед сохранением в базу пароль будет превращён в хеш
                    helpers
                                                                  // "user" - должно совпадать с "user"
                                                                                                                                                                                                                                                                                             iserSchema.pre("save", async function (next) {
                                                                                                                                                                                                          throw error;
                                                                  // в const User = model("user", userSchema);
                                                                                                                                                                                                                                                                                             if (!this.isModified("password")) return next();
                      constants.js
                                                                                                                         async updateStatus(id, body, userId) {
                                                                                                                                                                                                                                                                                             this.password = await bcrypt.hash(
                      guard.js
                                                                                                                          return this.update(id, body, userId);
                                                                                                                                                                                                                                                                                               this.password,
                    repositories
                                                                                                                                                                                                                                                                                               bcrypt.genSaltSync(SALT FACTOR)
                                                                                                                                                                                                      async create(body) {
                      catsRepo.js
                                                                versionKey: false,
                                                                                                                                                                                                       const user = new this.model(body);
                                                                                                                                                                                                                                                                                              );
                      usersRepo.js
                                                                timestamps: true, //createdAt and updatedAt
                                                                                                                         async remove(id, userId) {
                                                                                                                                                                                                                                                                                              next();
                                                                                                                                                                                                       return user.save();
                      index.js
                                                                                                                           const result = await this.model.findByIdAndRemove({
                                                                                                                                                                                                       //В схеме стоит хук на save - userSchema.pre("save", async function (next)...
                                                                                                                             id: id,
                    services
                                                                                                                             owner: userId,
                      authService.js
                                                                                                                                                                                                                                                                                            userSchema.methods.validPassword = async function (password)
                                                             catSchema.virtual("nameAge").get(function () {
                                                                                                                                                                                                      async updateToken(id, token) {
                                                                                                                                                                                                                                                                                              return await bcrypt.compare(password, this.password);
                      catsService.js
                                                              return this.name + " " + this.age;
                                                                                                                           return result;
                                                                                                                                                                                                       await this.model.updateOne({ id: id }, { token });
                      usersService.js
                      index.js
                                                                                                                                                                                                                                                                                             const User = model("user", userSchema);
                    validation
                                                             const Cat = model("cat", catSchema);
                                                                                                                                                                                                                                                                                             // "user" - должно совпадать с ref: "user" в схеме кота
                                                             module.exports = Cat;
                      catsValidation.js
                                                                                                                         odule.exports = CatsRepo; ——
                                                                                                                                                                                                     odule.exports = UsersRepo;
                                                                                                                                                                                                                                                                                             odule.exports = User;
                                                                                                                                                                                /src/repositories/index.js
                                                                                                                                                                               onst CatsRepo = require("./catsRepo");
                                                                                                                                                                              const UsersRepo = require("./usersRepo")
                                                                                                                                                                              nodule.exports = { CatsRepo, UsersRepo
                                                                                            /src/services/catsService.js
                                                                                                                                                                                                                                          /src/services/userService.js —
                                                                                                                                                                  /src/services/authService.js
                                                                                   const { CatsRepo } = require("../repositories"); 🚤
                                                                                                                                                                                                                                                                                                            /src/configs/passport.js
                                                                                   class CatsService {
                                                                                                                                                                                                                                const { UsersRepo } = require("../repositories");
                                                                                                                                                   onst { UsersRepo } = require("../repositories");
                                                                                                                                                                                                                                                                                               onst passport = require("passport");
                                                                                    constructor() {
                                                                                                                                                  const jwt = require("jsonwebtoken");
                                                                                                                                                                                                                                                                                               const { Strategy, ExtractJwt } = require("passport-jwt");
                                                                                      this.repo = {
                                                                                                                                                  require("dotenv").config();
                                                                                                                                                                                                                                 lass UsersService {
                                                                                                                                                                                                                                                                                            const { UsersService } = require("../services");
                                                                                        cats: new CatsRepo(client),
                                                                                                                                                  const SECRET KEY = process.env.JWT SECRET KEY;
                                                                                                                                                                                                                                 constructor() {
                                                                                                                                                                                                                                                                                              require("dotenv").config();
                             /db/index.js
                                                                                                                                                                                                                                   this.repo = {
                                                                                                                                                                                                                                                                                               const SECRET_KEY = process.env.JWT_SECRET_KEY;
     onst mongoose = require("mongoose");
                                                                                                                                                                                                                                     users: new UsersRepo(),
                                                                                                                                                  class AuthService {
     require("dotenv").config();
                                                                                                                                                   constructor() {
                                                                                                                                                                                                                                                                                               const params = {
     const uriDb = process.env.URI DB;
                                                                                    getAll(userId) {
                                                                                                                                                    this.repo = {
                                                                                                                                                                                                                                                                                                secretOrKey: SECRET KEY,
                                                                                      return this.repo.cats.getAll(userId);
                                                                                                                                                      users: new UsersRepo(),
                                                                                                                                                                                                                                                                                                jwtFromRequest: ExtractJwt.fromAuthHeaderAsBearerToken(),
      onst db = mongoose.connect(uriDb, {
                                                                                                                                                                                                                                 async create(body) {
      useNewUrlParser: true,
                                                                                                                                                                                                                                   const data = await this.repo.users.create(body);
      useUnifiedTopology: true,
                                                                                    getById({ id }, userId) {
                                                                                                                                                                                                                                   return data;
                                                                                                                                                                                                                                                                                               passport.use( // passport.use перехватывает токен
      useUnifiedTopology: true,
                                                                                      return this.repo.cats.getById(id, userId);
                                                                                                                                                   async login({ email, password }) {
                                                                                                                                                                                                                                                                                                new Strategy(params, async (payload, done) => {
      useFindAndModify: false,
                                                                                                                                                     const user = await this.repo.users.findByEmail(email);
     ·); // Пока в db лежит промис
                                                                                                                                                                                                                                 async findByEmail(email) {
                                                                                                                                                     if (!user || !user.validPassword(password)) {
                                                                                                                                                                                                                                                                                                   const service = new UsersService();
                                                                                    create(body, userId) {
                                                                                                                                                      //userSchema.methods.validPassword = ....
                                                                                                                                                                                                                                   const data = await this.repo.users.findByEmail(email);
                                                                                                                                                                                                                                                                                                   const user = await service.findById(payload.id);
     nongoose.connection.on("connecned", () => {
                                                                                      return this.repo.cats.create(body, userId);
                                                                                                                                                      return null;
                                                                                                                                                                                                                                   return data;
                                                                                                                                                                                                                                                                                                   if (!user) {
      console.log("Mongoose connection to db");
                                                                                                                                                                                                                                                                                                      return done(new Error("User not found"));
                                                                                                                                                     const id = user.id;
                                                                                    update({ id }, body, userId) {
                                                                                                                                                                                                                                 async findById(id) {
                                                                                                                                                     const payload = { id };
                                                                                                                                                                                                                                                                                                   if (!user.token) {
      ongoose.connection.on("error", (err) => {
                                                                                      return this.repo.cats.update(id, body, userId);
                                                                                                                                                                                                                                   const data = await this.repo.users.findById(id);
                                                                                                                                                     const token = jwt.sign(payload, SECRET KEY, { expiresIn: "1h" });
                                                                                                                                                                                                                                                                                                      return done(null, false);
      console.log(`Mongoose connection error: [${err.message}]`);
                                                                                                                                                     await this.repo.users.updateToken(id, token);
                                                                                                                                                                                                                                   return data;
                                                                                                                                                     return token;
                                                                                                                                                                                                                                                                                                   return done(null, user);
                                                                                     updateStatus({ id }, body, userId) {
                                                                                                                                                                                                                                                                                                  } catch (error) {
      ongoose.connection.on("disconnected", () => {
                                                                                      return this.repo.cats.updateStatus(id, body, user-
                                                                                                                                                                                                                                                                                                    done(error);
      console.log(`Mongoose disconnected`);
                                                                                                                                                                                                                                 odule.exports = UsersService;
                                                                                                                                                   async logout(id) {
                                                                                                                                                     await this.repo.users.updateToken(id, null);
     process.on("SIGINT", async () => {
                                                                                    remove({ id }, userId) {
      await mongoose.connection.close();
                                                                                      return this.repo.cats.remove(id, userId);
      console.log("Connection for DB disconnected and app terminated");
                                                                                                                                                  module.exports = AuthService;
      process.exit(1);
                                                                                                                                                                                                                                                                                           /src/controllers/catsController.js
                                                                                                                                                                                                                                                                            const { HttpCode } = require("../helpers/constants");
                                                                                    odule.exports = CatsService; =
                                                                                                                                                                                                                                                                            const { <u>CatsService</u> } = require("../services");
      .odule.exports = db;
                                                                                                                                                                                                                                                                            const catsService = new CatsService();
                                                                                                                                                                       /src/services/index.js
                                                                                                                                                          onst AuthService = require("./authService");
                                /index.js
                                                                                                                                                                                                                                                                             в guard на каждом req добавил пользователя! req.user = user;
                                                                                                                                                         onst CatsService = require("./catsService");
                                                                                                                                                                                                                                                                               st getAll = async (req, res, next) => {
   const app = require("./src/app");
                                                                                                                                                         const UsersService = require("./usersService"); 🛨
  const db = require("./src/db");
                                                                                                                                                                                                                                                                            // почему не пишет async ?
                                                                                                                                                         nodule.exports = { AuthService, UsersService, CatsService }
  const PORT = process.env.PORT || 3000;
                                                                                                                                                                                                                                                                              const userId = req.user.id;
                                                                                                                                                                                                                                                                              const cats = await <u>catsService</u>.getAll(userId);
                                                                                                                                                                                                                                                                              res.status(HttpCode.OK).json({
  db.then(() => {
   app.listen(PORT, () => {
                                                                                                                                                                                                                                                                                status: "success",
                                                                                                                                                                                                                                                                                code: HttpCode.OK,
     console.log(`Server run on port: ${PORT}`);
                                                                                                                                                                                                                                                                                data: {
                                                                                                                                                                                                    /src/controllers/usersController.js
   ).catch((error) => {
                                                                                                                                                                                                                                                                                  cats,
                                                                                                                   /src/api/cats/index.js
                                                                                                                                                                                      const { HttpCode } = require("../helpers/constants");
   console.log(`DB Server isn't running. Error message ${error.message}`);
                                                                                                   onst express = require("express");
                                                                                                                                                                                     const { AuthService, UsersService } = require("../services");
   process.exit(1);
                                                                                                                                                                                                                                                                               });
                                                                                                   const controllerCats = require("../../controllers/catsContrller");
                                                                                                                                                                                                                                                                              } catch (e) {
                                                                                                  const router = express.Router();
                                                                                                                                                                                     const authService = new AuthService();
                                                                                                                                                                                                                                                                              next(e);
                                                                                                                                                                                     const usersService = new UsersService();
                                                                                                   const {
                              /src/app.js
                                                                                                   validateCreateCat,
                                                                                                                                                                                         registration = async (req, res, next) => {
const express = require("express");
                                                                                                   validateUpdateCat,
                                                                                                                                                                                      const { name, email, password, sex } = req.body;
                                                                                                                                                                                                                                                                               t getById = async (req, res, next) => {
const cors = require("cors");
                                                                                                    validateUpdateStatusCat,
                                                                                                                                                                                      const user = await usersService.findByEmail(email);
const logger = require("morgan");
                                                                                                   = require("../../validation/catsValidation");
                                                                                                                                                                                      if (user) {
                                                                                                                                                                                                                                                                              const userId = req.user.id;
const { HttpCode } = require("./helpers/constants");
                                                                                                                                                                                        // если нашел по email значит он есть или раньше рег под этим email
                                                                                                                                                                                                                                                                               const cat = await <u>catsService</u>.getById(req.params, userId);
const routerCats = require("./api/cats");
                                                                                                   onst guard = require("../../helpers/guard");
const routerUsers = require("./api/users");
                                                                                                                                                                                          status: HttpCode.CONFLICT,
                                                                                                                                                                                                                                                                                return res.status(HttpCode.OK).json({
                                                                                                   outer
                                                                                                                                                                                          data: "Conflict",
                                                                                                                                                                                                                                                                                  status: "success",
const app = express();
                                                                                                    .get("/", guard, controllerCats.getAll)
                                                                                                                                                                                          message: "This email is already use",
                                                                                                                                                                                                                                                                                  code: HttpCode.OK,
                                                                                                    .get("/:id", guard, controllerCats.getById)
                                                                                                                                                                                                                                                                                  data: {
const formatsLogger = app.get("env") === "development" ? "dev" : "short";
                                                                                                    .post("/", guard, validateCreateCat, controllerCats.create)
                                                                                                                                                                                                                                                                                    cat,
                                                                                                    .put("/:id", guard, validateUpdateCat, controllerCats.update)
                                                                                                                                                                                      try {
app.use(logger(formatsLogger));
                                                                                                    .patch(
                                                                                                                                                                                        const newUser = await usersService.create({ name, email, password, sex });
app.use(cors());
                                                                                                     "/:id/vaccinated",
                                                                                                                                                                                        return res.status(HttpCode.CREATED).json({
                                                                                                                                                                                                                                                                               } else {
app.use(express.json());
                                                                                                     guard,
                                                                                                                                                                                          status: "success",
                                                                                                                                                                                                                                                                                // пробрасываю в app -> app.use((err, req, res, next) => {....
                                                                                                     validateUpdateStatusCat,
                                                                                                                                                                                          code: HttpCode.CREATED,
                                                                                                     controllerCats.updateStatus
app.use("/api/cats", routerCats);
                                                                                                                                                                                          data: {
                                                                                                                                                                                                                                                                                  status: HttpCode.NOT FOUND,
app.use("/api/users", routerUsers);
                                                                                                                                                                                           id: newUser.id,
                                                                                                                                                                                                                                                                                  code: HttpCode.NOT FOUND,
                                                                                                    .delete("/:id", guard, controllerCats.remove);
                                                                                                                                                                                            email: newUser.email,
                                                                                                                                                                                                                                                                                  message: "Cat not found",
app.use((req, res, next) => {
                                                                                                                                                                                            sex: newUser.sex,
                                                                                                                                                                                                                                                                                  data: "Not found",
                                                                                                    odule.exports = router;
 res.status(HttpCode.NOT FOUND).json({
   status: "error",
                                                                                                                                                                                        });
   code: HttpCode.NOT FOUND,
                                                                                                               ___ /src/api/users/index.js
                                                                                                                                                                                       } catch (e) {
                                                                                                                                                                                                                                                                             } catch (e) {
   message: `Use api onroutes ${req.baseUrl}/api/cats`,
                                                                                                 const express = require("express");
                                                                                                                                                                                        next(e);
                                                                                                                                                                                                                                                                              next(e);
   data: `Not Found`,
                                                                                                 const controllerUsers = require("../../controllers/usersController");
  });
                                                                                                 const router = express.Router();
                                                                                                                                                                                         login = async (req, res, next) => {
                                                                                                 const guard = require("../../helpers/guard");
                                                                                                                                                                                                                                                                              st create = async (req, res, next) => {
app.use((err, req, res, next) => {
                                                                                                                                                                                      const { email, password } = req.body;
 err.status = err.status ? err.status : HttpCode.INTERNAL SERVER ERROR;
                                                                                                                                                                                                                                                                              const userId = req.user.id;
 res.status(err.status).json({
                                                                                                                                                                                        const token = await authService.login({ email, password });
                                                                                                  .post("/registration", controllerUsers.registration)
                                                                                                                                                                                                                                                                              const cat = await <u>catsService</u>.create(req.body, userId);
   status: err.status === HttpCode.INTERNAL_SERVER_ERROR ? "fail" : "error",
                                                                                                  .post("/login", controllerUsers.login)
                                                                                                                                                                                        if (token) {
                                                                                                                                                                                                                                                                               res.status(HttpCode.CREATED).json({
   code: err.status,
                                                                                                                                                                                          return res.status(HttpCode.OK).json({
                                                                                                  .post("/logout", guard, controllerUsers.logout);
                                                                                                                                                                                                                                                                                status: "success",
   message: err.message,
                                                                                                                                                                                           status: "success",
                                                                                                                                                                                                                                                                                code: HttpCode.CREATED,
                                                                                                                                                                                            code: HttpCode.OK,
                                                                                                 nodule.exports = router;
                                                                                                                                                                                                                                                                                data: {
     err.status === HttpCode.INTERNAL SERVER ERROR
                                                                                                                                                                                            data: {
                                                                                                                                                                                                                                                                                  cat,
      ? "INTERNAL SERVER ERROR"
                                                                                                                                                                                              token,
       : err.data,
                                                                                                            /src/helpers/guard.js
                                                                                                                                                                                                                                                                               });
                                                                                          const passport = require("passport");
                                                                                                                                                                                          });
                                                                                                                                                                                                                                                                             } catch (e) {
                                                                                         require("../configs/passport");
                                                                                                                                                                                                                                                                              next(e);
                                                                                          const { HttpCode } = require("../helpers/constants");
 odule.exports = app;
                                                                                                                                                                                          status: HttpCode.UNATHORIZED,
                                                                                                                                                                                          message: "Invalid credentials",
                                                                                          const guard = (req, res, next) => {
                                                                                           passport.authenticate("jwt", { session: false }, (error, user) => {
                                                                                                                                                                                        });
                     /src/helpers/constants.js
                                                                                                                                                                                                                                                                              st update = async (req, res, next) => {
                                                                                                                                                                                      } catch (e) {
                                                                                             //этот callback это done из passport js
                     const HttpCode = {
                                                                                                                                                                                                                                                                            try {
                                                                                             // console.log(req.get("Authorization"));
                                                                                                                                                                                        next(e);
                     OK: 200,
                                                                                                                                                                                                                                                                              const userId = req.user.id;
                                                                                             const [, token] = req.get("Authorization").split(" ");
                                                                                                                                                                                                                                                                              const cat = await <u>catsService</u>.update(req.params, req.body, userId);
                     CREATED: 201,
                                                                                             if (error || !user || token !== user.token) {
                     NO CONTENT: 204,
                                                                                                                                                                                                                                                                              if (cat) {
                                                                                              return next({
                      BAD REQUEST: 400,
                                                                                                                                                                                                                                                                                return res.status(HttpCode.OK).json({
                                                                                                status: HttpCode.FORBIDEN,
                                                                                                                                                                                          logout = async (req, res, next) => {
                      UNATHORIZED: 401,
                                                                                                                                                                                                                                                                                  status: "success",
                                                                                                message: "FORBIDDEN",
                                                                                                                                                                                      const userId = req.user.id;
                     FORBIDEN: 403,
                                                                                                                                                                                                                                                                                  code: HttpCode.OK,
                                                                                               });
                                                                                                                                                                                      await authService.logout(userId);
                      NOT FOUND: 404,
                                                                                                                                                                                                                                                                                  data: {
                                                                                                                                                                                      return res
                      CONFLICT: 409,
                                                                                                                                                                                                                                                                                     cat,
                                                                                             req.user = user;
                                                                                                                                                                                        .status(HttpCode.NO CONTENT)
                      INTERNAL SERVER ERROR: 500,
                                                                                             // res.locals.user = user - так хочет express (это будет локальная переменная)
                                                                                                                                                                                        .json({ status: "success", code: HttpCode.NO_CONTENT, message: "Nothing" });
                                                                                                                                                                                                                                                                                } );
                                                                                             // req.app.locals.user = user - это будет глобальная переменная
                                                                                                                                                                                                                                                                               } else {
                                                                                             return next();
                                                                                                                                                                                                                                                                                // пробрасываю в app \rightarrow app.use((err, req, res, next) \Rightarrow {....
                     const Sex = {
                                                                                           }) (req, res, next);
                                                                                                                                                                                     module.exports = {
                     MALE: "m",
                                                                                                                                                                                                                                                                                return next({
                                                                                                                                                                                      registration,
                      FEMALE: "f",
                                                                                                                                                                                                                                                                                  status: HttpCode.NOT FOUND,
                                                                                                                                                                                      login,
                     NONE: "none",
                                                                                                                                                                                                                                                                                  code: HttpCode.NOT FOUND,
                                                                                           dule.exports = guard;
                                                                                                                                                                                      logout,
                                                                                                                                                                                                                                                                                  message: "Cat not found",
                                                                                                                                                                                                                                                                                  data: "Not found",
                                                                                                                                                                                                                                                                                });
                     nodule.exports = { HttpCode, Sex }
                                                                                                              /src/validation/catsValidation.js _
                                                                                                    const Joi = require("joi");
                                                                                                                                                                                                                                                                             } catch (e) {
                                                                                                   const { HttpCode } = require("../helpers/constants");
                                                                                                                                                                                                                                                                              next(e);
                                                                                                   const schemaCreateCat = Joi.object({
                                                                                                    name: Joi.string().alphanum().min(2).max(30).required(),
                                                                                                    age: Joi.number().integer().min(0).max(25).required(),
                                                                                                                                                                                                                                                                               t updateStatus = async (req, res, next) => {
                                                                                                    isVaccinated: Joi.boolean().optional(),
                                                                                                                                                                                                                                                                              const userId = req.user.id;
                                                                                                                                                                                                                                                                              const cat = await <u>catsService</u>.update(req.params, req.body, userId);
                                                                                                    const schemaUpdateCat = Joi.object({
                                                                                                                                                                                                                                                                              if (cat) {
                                                                                                    name: Joi.string().alphanum().min(2).max(30).optional(),
                                                                                                                                                                                                                                                                                return res.status(HttpCode.OK).json({
                                                                                                    age: Joi.number().integer().min(0).max(25).optional(),
                                                                                                                                                                                                                                                                                  status: "success",
                                                                                                    isVaccinated: Joi.boolean().optional(),
                                                                                                                                                                                                                                                                                  code: HttpCode.OK,
                                                                                                                                                                                                                                                                                  data: {
                                                                                                                                                                                                                                                                                    cat,
                                                                                                    const schemaUpdateStatusCat = Joi.object({
                                                                                                    isVaccinated: Joi.boolean().required()
                                                                                                                                                                                                                                                                                });
                                                                                                                                                                                                                                                                                // пробрасываю в app \rightarrow app.use((err, req, res, next) \Rightarrow {....
                                                                                                                                                                                                                                                                                return next({
                                                                                                    const validate = (schema, body, next) => {
                                                                                                                                                                                                                                                                                  status: HttpCode.NOT_FOUND,
                                                                                                    const { error } = schema.validate(body)
                                                                                                                                                                                                                                                                                  code: HttpCode.NOT FOUND,
                                                                                                    if(error){
                                                                                                                                                                                                                                                                                  message: "Cat not found",
                                                                                                      const [{message}] = error.details
                                                                                                                                                                                                                                                                                  data: "Not found",
                                                                                                      console.log(error.details);
                                                                                                                                                                                                                                                                                } );
                                                                                                      return next({
                                                                                                        status: HttpCode.BAD REQUEST,
                                                                                                                                                                                                                                                                            } catch (e)
                                                                                                        code: HttpCode.BAD REQUEST,
                                                                                                                                                                                                                                                                              next(e);
                                                                                                        message: `Field: ${message.replace(/"/g, '')}`,
                                                                                                        data: 'Bad request'
                                                                                                                                                                                                                                                                             onst remove = async (req, res, next) =>
                                                                                                    next()
                                                                                                                                                                                                                                                                            try {
                                                                                                                                                                                                                                                                              const userId = req.user.id;
                                                                                                   module.exports.validateCreateCat = (req, res, next) => {
                                                                                                                                                                                                                                                                              const cat = await <u>catsService</u>.remove(req.params, userId);
                                                                                                    return validate(schemaCreateCat, req.body, next)
                                                                                                                                                                                                                                                                              if (cat) {
                                                                                                                                                                                                                                                                                return res.status(HttpCode.OK).json({
                                                                                                   module.exports.validateUpdateCat = (req, res, next) => {
                                                                                                                                                                                                                                                                                  status: "success",
                                                                                                    return validate(schemaUpdateCat, req.body, next)
                                                                                                                                                                                                                                                                                  code: HttpCode.OK,
                                                                                                                                                                                                                                                                                  data:
                                                                                                   module.exports.validateUpdateStatusCat = (req, res, next) => {
                                                                                                                                                                                                                                                                                    cat,
                                                                                                    return validate(schemaUpdateStatusCat, req.body, next)
                                                                                                                                                                                                                                                                                });
                                                                                                                                                                                                                                                                                // пробрасываю в app \rightarrow app.use((err, req, res, next) \Rightarrow {....
                                                                                                                                                                                                                                                                                return next({
                                                                                                                                                                                                                                                                                  status: HttpCode.NOT FOUND,
                                                                                                                                                                                                                                                                                  code: HttpCode.NOT FOUND,
                                                                                                                                                                                                                                                                                  message: "Cat not found",
                                                                                                                                                                                                                                                                                  data: "Not found",
                                                                                                                                                                                                                                                                                });
                                                                                                                                                                                                                                                                             } catch (e) {
                                                                                                                                                                                                                                                                              next(e);
                                                                                                                                                                                                                                                                           module.exports = {
```

/src/repositories/catsRepo.js

const { HttpCode } = require("../helpers/constants");

const Cat = require("../db/schemas/schCat");

/db/schemas/schUser.js

const { Sex } = require("../../helpers/constants");

const mongoose = require("mongoose");
const bcrypt = require("bcryptjs");

const { Schema, model } = mongoose;

const userSchema = new Schema(

const SALT FACTOR = 6;

getAll,
getById,
create,
update,

remove,

updateStatus,