# This is My Kingdom Come



Project#4: Dentist Booking

## <u>Member</u>

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## models/Dentist.js

```
DentistSchema.virtual('appointments',{
                                                                   localField: ' id',
    trim : true ,
                                                                   foreignField: 'dentist',
yearsOfExperience:{
                                                               DentistSchema.pre('deleteOne' , {document: true , query :false}
                                                                   await this.model('Appointment').deleteMany({dentist:
                                                               this. id});
toJSON: {virtuals : true} ,
                                                               module.exports=mongoose.model('Dentist' , DentistSchema) ;
```

## routes/dentists.js

```
const express = require('express');
const {getDentists ,getDentist ,createDentist ,updateDentist ,deleteDentist , } =
require('../controllers/dentists');
const router = express.Router();
const AppointmentRounter = require('./appointments') ;
const { protect , authorize } = require('../middleware/auth');
const swaggerJSDoc = require('swagger-jsdoc');
router.use('/:dentistId/appointments/', AppointmentRounter);
router.route('/').get(protect , authorize('user','admin') ,getDentists).post(protect ,
authorize('admin'), createDentist);
authorize('admin'), updateDentist).delete(protect, authorize('admin'), deleteDentist);
module.exports=router ;
```

```
const reqQuery = {...req.query};
//Loop over remove frelds and delete them from req Query
removeFields.forEach(param=> delete reqQuery[param]);
```

```
let queryStr = JSON.stringify(reqQuery) ;
Dentist.find(JSON.parse(queryStr)).populate('appointments');
        query = Dentist.find(JSON.parse(queryStr));
('appointments');
```

```
const sortBy = req.query.select.split(',').join(' ');
   query = query.sort('name') ;
                                                                          pagination.prev= {page:page-1
                                                               ,limit};
const page = parseInt(req.query.page,10) || 1;
                                                              res.status(200).json({success:true,count:
                                                               dentists.length , pagination,
                                                              data:dentists});
    const total = await Dentist.countDocuments() ;
   query = query.skip(startIndex).limit(limit);
```

```
if(req.user.role === "admin") {
    query = Dentist.findById(req.params.id).populate('appointments');
```

```
exports.updateDentist =async (req , res , next) =>{
       const dentist = await Dentist.findByIdAndUpdate(req.params.id ,
            runValidators: true
        });
    res.status(200).json({success: true ,data:dentist});}
```

```
//@desc Creaet a Dentist
//@route Post /api/v1/dentists
//@access Private

exports.createDentist = async (req , res , next) => {
    const dentist = await Dentist.create(req.body);
    res.status(201).json({success:true, data:dentist});
};
```

```
exports.deleteDentist =async (req , res , next) =>{
```

## server.js

```
const dentists = require('./routes/dentists');
```

```
//Mount reuters
app.use('/api/v1/dentists' , dentists);
```

## models/User.js

```
const UserSchema= new mongoose.Schema({
    name:{ type:String,
        required:[true,'Please add a name']
    email:{ type:String,
        required: [true, 'Please add an email'],
        unique:true,
        match:[
            /^(([^<>()[\]\\.;;:\s@"]+(\.[^<>()[\]\\.,;:\s@"]+)*)|(".+"))@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\])|(
            'Please add a valid email'
   role:{ type:String,
        enum:['user','admin'],
        default: 'user'
    password:{
        type:String,
        required:[true, 'Please add a password'] ,
        minlength:6, select:false
        type:String,
        required:[true , 'Please add a telephone number'],
        match: [/^(\()?\d{3}(\))?(-|\s)?\d{3}(-|\s)\d{4}$/],
   resetPasswordToken : String,
    resetPasswordExpire : Date,
   createdAt:{
        default:Date.now }
```

## routes/auth.js

module.exports=router;

```
const express = require('express');
const {register, login, getMe , logout} = require('.../controllers/auth');

const router = express.Router();

const {protect} = require('.../middleware/auth');

router.post('/register',register);
router.post('/login' , login)
router.get('/me' , protect , getMe);
router.get('/logout' , logout);
```

## controllers/auth.js

const { json } = require("express");

```
const User = require("../models/User");
   //@route
    exports.register = async (req, res, next) => {
8
     try {
       const { name, email, password, role ,tel } = req.body;
       //Create User
       const user = await User.create({
         name,
         email,
         password,
         role,
         tel
       // const token =user.getSignedJwtToken();
       sendTokenResponse(user, 200, res);
       catch (err) {
       res.status(400).json({ success: false });
       console.log(err.stack);
```

## models/Appointment.js

```
const mongoose = require("mongoose");
const AppointmentSchema = new mongoose.Schema({
  appDate: {
   type: Date,
   required: true,
  user: {
   type: mongoose.Schema.ObjectId,
   ref: "User",
    required: true,
  dentist: {
   type: mongoose.Schema.ObjectId,
   ref: "Dentist",
    required: true,
  createdAt: {
   type: Date,
    default: Date.now,
});
module.exports = mongoose.model("Appointment", AppointmentSchema);
```

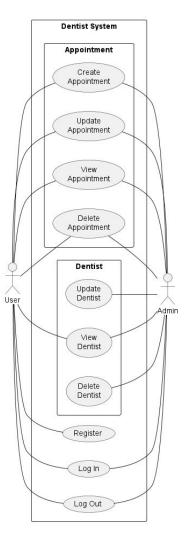
## controllers/appointments.js

```
const Appointment = require("../models/Appointment");
const Dentist = require("../models/Dentist");
           Get all appointments
//@dese
           Get /api/v1/appointments
//@route
exports.getAppointments = async (req, res, next) => {
 let query;
 //General users can see only their appointments
 if (req.user.role !== "admin") {
   query = Appointment.find({ user: req.user.id }).populate({
     path: "dentist",
     select: "name yearsOfExperience areaOfExpertise",
   else {
   //If you are an admin you can see all
   if (req.params.dentistID) {
      console.log(req.params.dentistID);
     query = Appointment.find({
       dentist: reg.params.dentistID,
      }).populate({
       path: "dentist",
       select: "name yearsOfExperience areaOfExpertise",
     else {
     query = Appointment.find().populate({
       path: "dentist",
       select: "name yearsOfExperience areaOfExpertise",
```

```
Get single appointments
//@route
exports.getAppointment = async (req, res, next) => {
 try {
    const appointment = await Appointment.findById(reg.params.id).populate({
     path: "dentist",
     select: "name yearsOfExperience areaOfExpertise",
    if (!appointment) {
     return res.status(404).json({
       success: false,
       message: `No appointment with the id of ${req.params.id}`,
    if (
      appointment.user.toString() !== req.user.id &&
      req.user.role !== "admin"
     return res.status(401).json({
       success: false,
       message: `User ${req.user.id} is not authorized to view this appointment `.
    res.status(200).json({
     success: true,
     data: appointment,
```

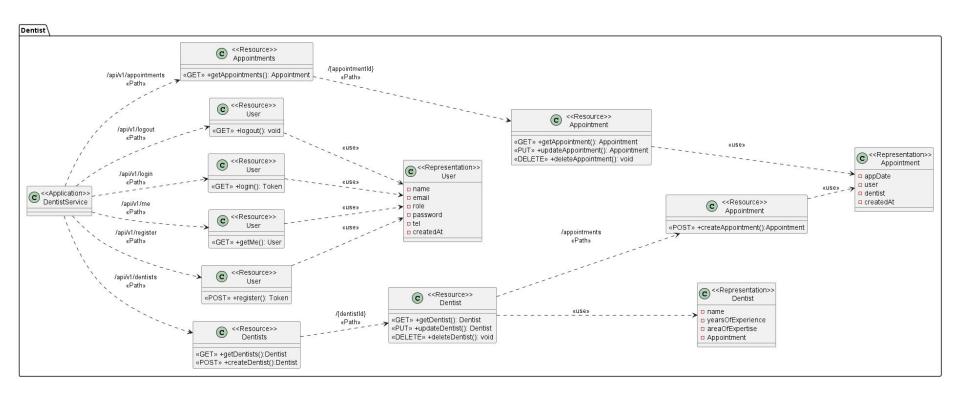
## controllers/appointments.js

```
//@dese
//@route
           post /api/v1/dentist/:dentistId/appointment
exports.addAppointment = async (req, res, next) => {
  try -
   req.body.dentist = req.params.dentistId;
    const dentist = await Dentist.findById(req.params.dentistId);
   if (!dentist) {
      return res.status(404).json({
       success: false,
       message: `No dentist with the id of ${req.params.dentistId}`,
      });
    //add user Id to reg.body
    req.body.user = req.user.id;
   //Check for existed appointment
    const existedAppointments = await Appointment.find({ user: req.user.id });
   //If the user is not an admin , htey can only create 1 appointment
    if (existedAppointments.length >= 1 && req.user.role !== "admin") {
      return res.status(400).json({
       success: false,
       message: `The user with id ${req.user.id} has already made 1 appointments`,
      });
```



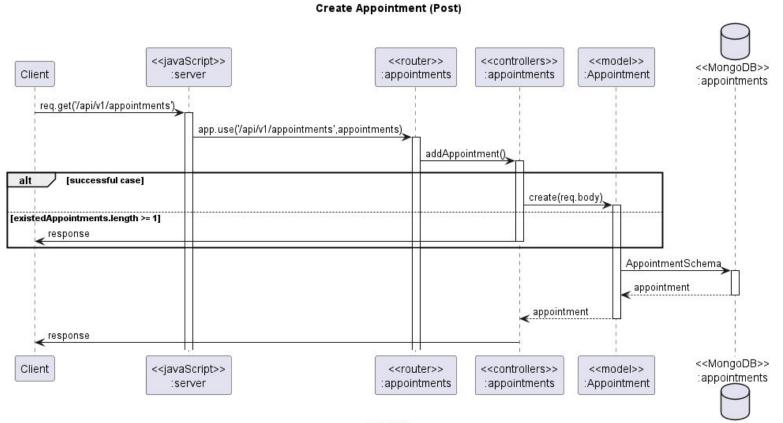
## Use Case Diagram

## Class Diagram



## **Create Appointment**

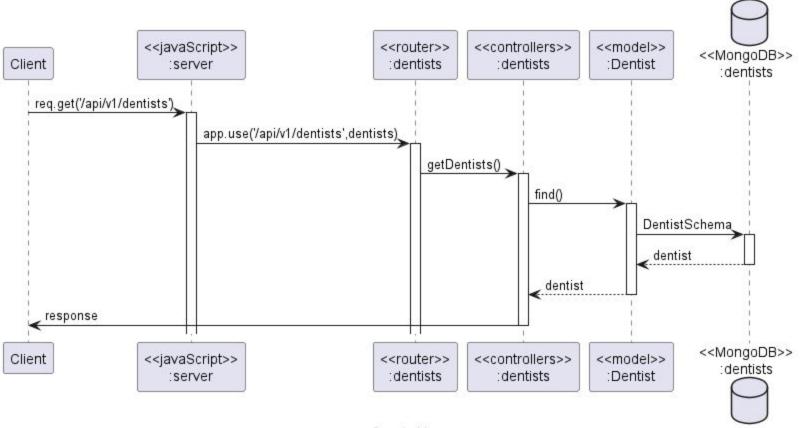
Dentist Sequence Diagram



#### User View dentist

Dentist Sequence Diagram

#### User View Dentists (GET ALL)



## **User view Appointment**

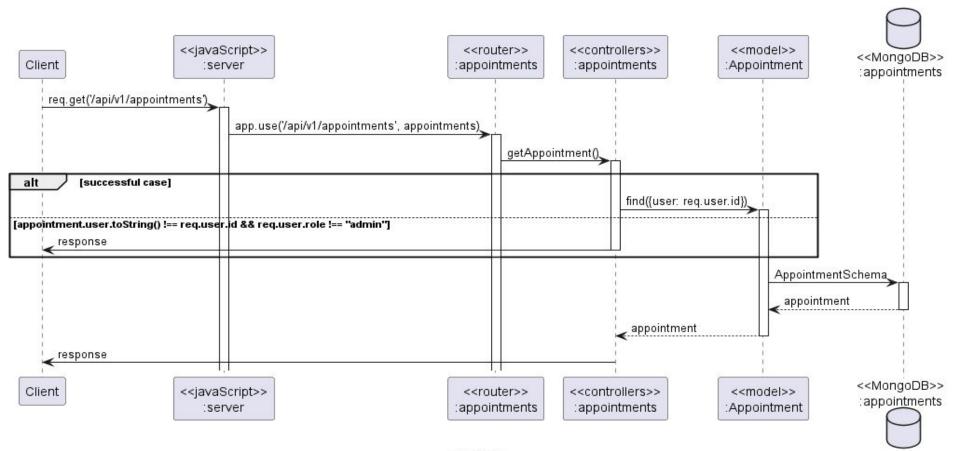
Dentist Sequence Diagram

#### USER VIEW APPOINTMENT (GET ALL) <<javaScript>> <<router>> <<controllers>> <<model>> <<MongoDB>> Client :appointments :appointments :Appointment :server :appointments req.get('/api/v1/appointments'), app.use('/api/v1/appointments', appointments) getAppointments(), find({user: req.user.id}), AppointmentSchema appointment appointment response <<MongoDB>> <<javaScript>> Client <<router>> <<controllers>> <<model>> :appointments :appointments :appointments :Appointment server

## User view single Appointment

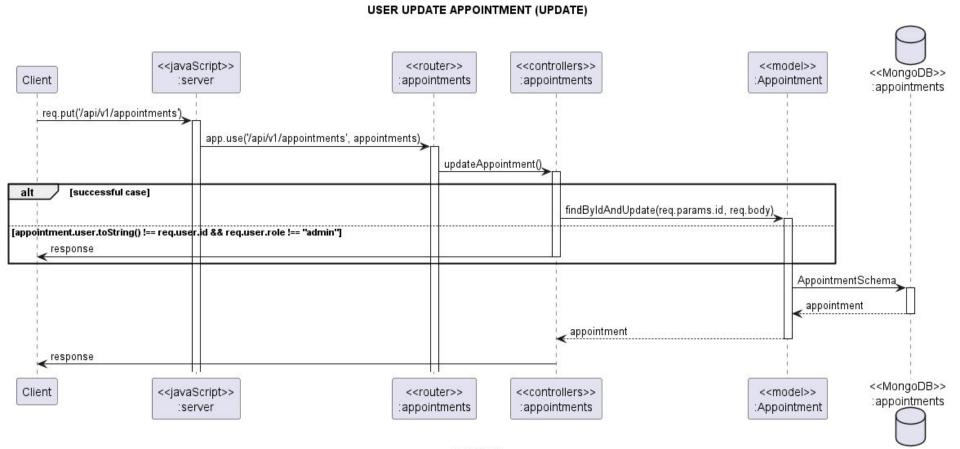
Dentist Sequence Diagram

#### USER VIEW APPOINTMENT (GET ONE)



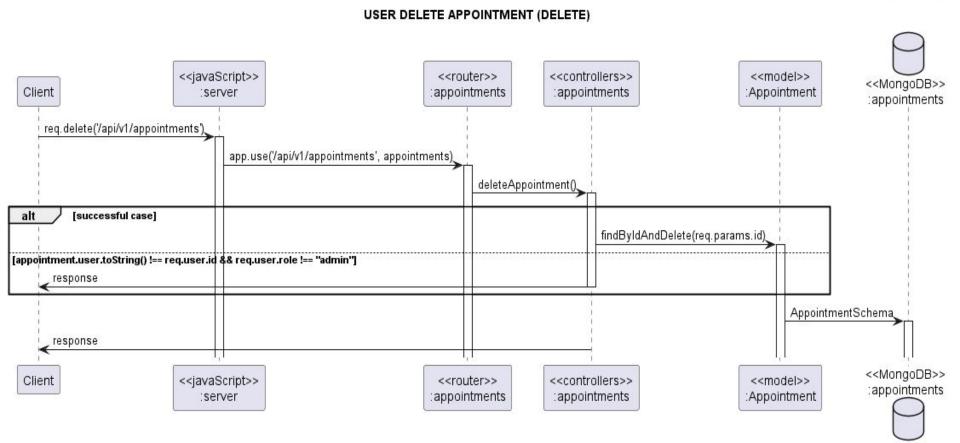
## User update Appointment

Dentist Sequence Diagram



## User delete Appointment

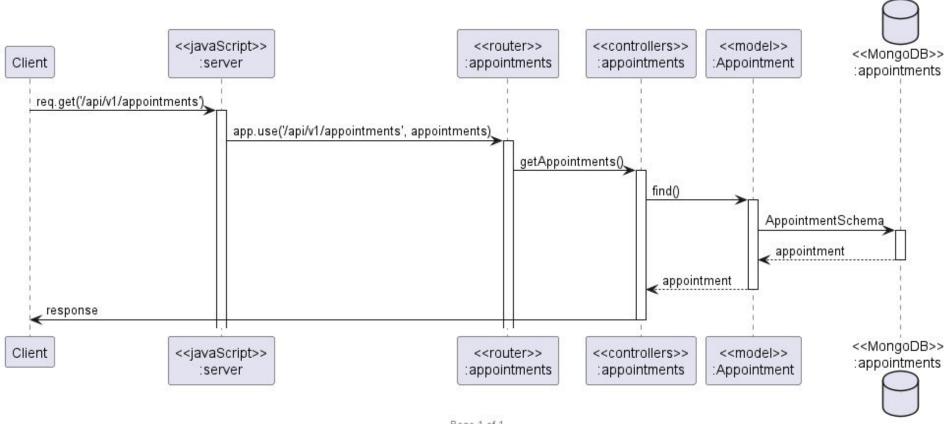
Dentist Sequence Diagram



## Admin view Appointment

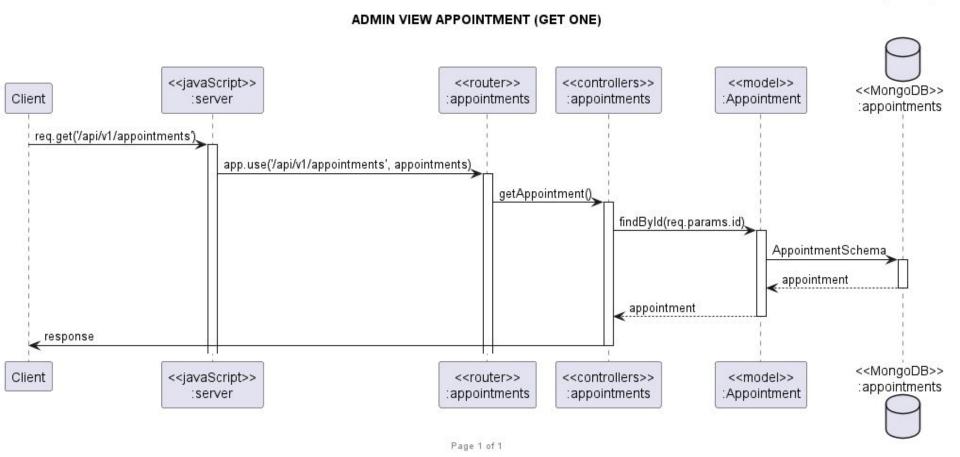
Dentist Sequence Diagram

#### ADMIN VIEW APPOINTMENT (GET ALL)



## Admin view single Appointment

Dentist Sequence Diagram



## Admin update Appointment

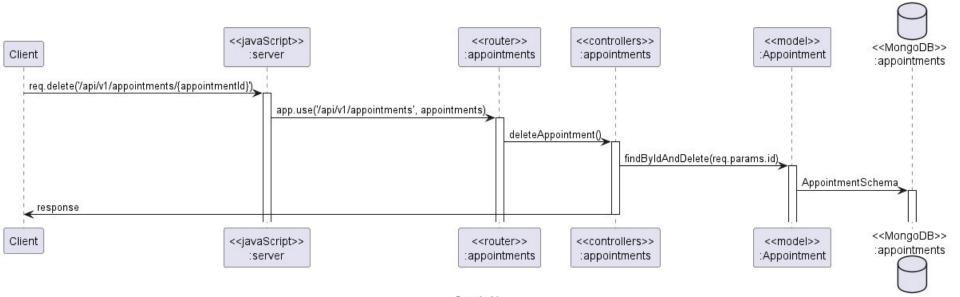
Dentist Sequence Diagram ADMIN UPDATE APPOINTMENT (UPDATE) <<javaScript>> <<router>> <<controllers>> <<model>> <<MongoDB>> Client appointments appointments :Appointment server appointments req.put('/api/v1/appointments/{appointmentId}'), app.use('/api/v1/appointments', appointments) updateAppointment(), findByldAndUpdate(req.params.id, req.body), AppointmentSchema appointment , appointment response <<MongoDB>> <<javaScript>> Client <<router>> <<controllers>> <<model>> :appointments :Appointment :server appointments :appointments

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## Admin delete Appointment

Dentist Sequence Diagram

#### ADMIN DELETE APPOINTMENT (DELETE)



## การแบ่งงาน

User - ปฤณสิษฐ์

Appointment - ธีรุตม์

Dentist - ภัทรดนัย

Use Case Diagram - ภัทรดนัย/ธีรุตม์/ปฤณสิษฐ์

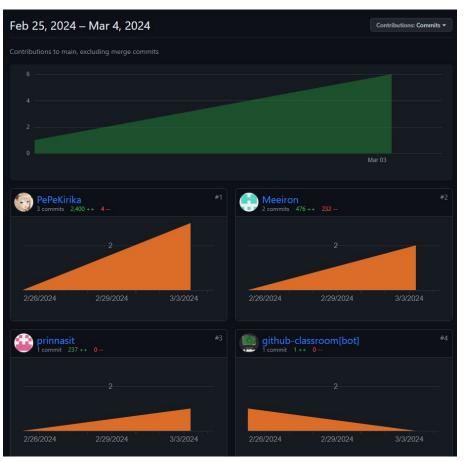
Class Diagram - ภัทรดนัย/ธีรุตม์/ปฤณสิษฐ์

Sequence Diagram - ภัทรดนัย/ธีรุตม์/ปฤณสิษฐ์

Presentation- ภัทรดนัย/ธีรุตม์/ปฤณสิษฐ์

Runner- ภัทรดนัย

### การแบ่งงาน



https://github.com/2110503TACEDT66/presentation-day-1-this-is-my-kingdom-come/graphs/contributors