ONLINE JOB FAIR REGISTRATION

Group เมียวเมี้ยวเมี่ยวเมียว
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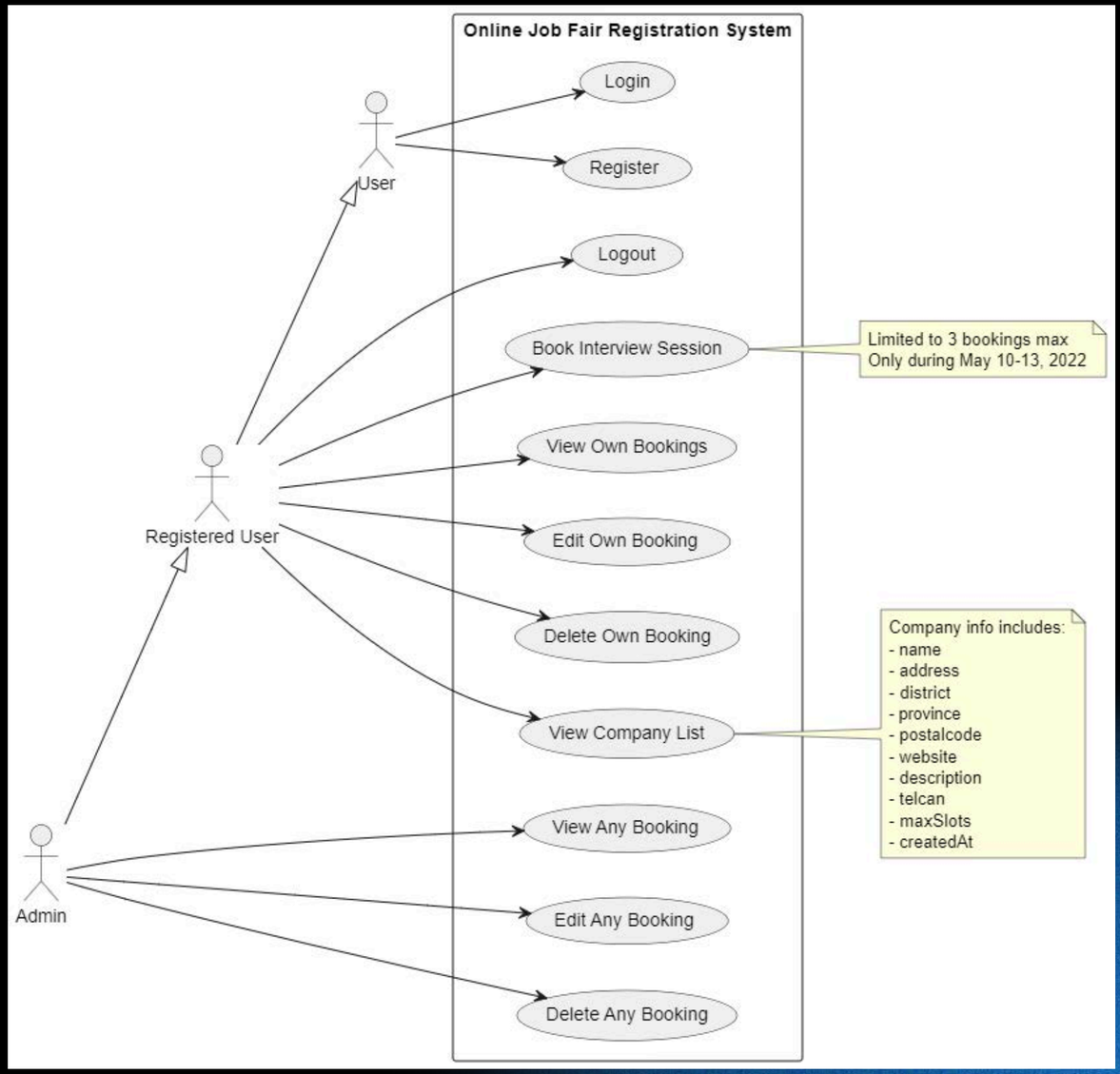
https://github.com/praeploykiat/SW_Dev_Final_Project

Functional Requirements

Project#3: Online Job Fair Registration

1. The system shall allow a user to register by specifying the name, telephone number, email, and password.
2. After registration, the user becomes a registered user, and the system shall allow the user to log in to use the system by specifying the email and password. The system shall allow a registered user to log out.
3. After login, the system shall allow the registered user to book up to 3 interview sessions by specifying the date (during May 10th -13th, 2022) and the preferred companies. The company list is also provided to the user. A company information includes the company name, address, website, description, and telephone number.
4. The system shall allow the registered user to view his interview session bookings.
5. The system shall allow the registered user to edit his interview session bookings.
6. The system shall allow the registered user to delete his interview session bookings.
7. The system shall allow the admin to view any interview session bookings.
8. The system shall allow the admin to edit any interview session bookings.
9. The system shall allow the admin to delete any interview session bookings.

Use Case Diagram



Convert name

- Hospital → Company
- Appoinment → Booking

In Server, Controller, Routes, Models

Example

server.js +2 -2

```
@@ -48,13 +48,13 @@ app.use('/api/ai', aiRoutes);
48  // });                                          48  // });
49                                                 49
50  //Rout files                                   50  //Rout files
51  - const hospitals = require('./routes/hospitals');   51  + const hospitals = require('./routes/companies');
52  app.use('/api/v1/hospitals',hospitals);        52  app.use('/api/v1/hospitals',hospitals);
53                                                 53
54  const auth = require('./routes/auth');         54  const auth = require('./routes/auth');
55  app.use('/api/v1/auth',auth);                  55  app.use('/api/v1/auth',auth);
56                                                 56
57  - const appointments = require('./routes/appointments');   57  + const appointments = require('./routes/bookings');
58  app.use('/api/v1/appointments',appointments);  58  app.use('/api/v1/appointments',appointments);
59                                                 59
60  const PORT = process.env.PORT || 5000;         60  const PORT = process.env.PORT || 5000;
```

models/User.js

Add telephone number field into User Schema.

```
10  +     telephone: {
11  +         type: String,
12  +         required: [true, 'Please add a telephone number'],
13  +         match: [/^\d{9,15}$/, 'Please enter a valid phone number']
        // basic 9-15 digit validation
14  +     },
```

models/Company.js

Add website & description field into User Schema.

```
28  +     website: {
29  +       type: String,
30  +       match: [
31  +         /^(https?:\/\/)?([\w\d-]+\.)+\w{2,}(\/.*)?$/,
32  +         'Please enter a valid URL'
33  +       ]
34  +     },
35  +     description: {
36  +       type: String,
37  +       maxlength: [500, 'Description can not be more than 500 characters']
38  +     },
```

models/Booking.js

Add date range validation.

```
4   +     apptDate : {
5   +         type : Date,
6   +         required : true,
7   +         validate: {
8   +             validator: function(value) {
9   +                 const start = new Date('2022-05-10');
10  +                 const end = new Date('2022-05-13T23:59:59.999Z');
11  +                 return value >= start && value <= end;
12  +             },
13  +             message: 'Booking date must be between May 10 and May 13, 2022'
14  +         }
15  +     },
```

controller/booking.js

```
//get all appts
//get api/v1/bookings
//access private
exports.getBookings = async(req,res,next)=>{
    let query;
    //General users can see only their own bookings!
    if(req.user.role !== 'admin'){
        query=Booking.find({user:req.user.id}).populate({path:'company',select:'name province tel'});
    }
    else{//If you are an admin, you can see all!
        if(req.params.companyId){
            console.log(req.params.companyId);
            query = Booking.find({company:req.params.companyId}).populate({path:'company',select:'name province tel'});
        }
        else{
            query = Booking.find().populate({path:'company',select:'name province tel'});
        }

    }
    try {
        const bookings = await query;

        res.status(200).json({success:true,count:bookings.length,data:bookings});
    }
    catch (err){
        console.log(err.stack);
        return res.status(500).json({success:false,message:"Cannot find Bookings"});
    }
}
```

Add populate telephone number

controller/booking.js

```
//add single appt
//post api/v1/companies/:companyId/bookings/
//access private
exports.addBooking = async (req,res,next) => {
    try{
        req.body.company=req.params.companyId;

        const company = await Company.findById(req.params.companyId);

        if(!company){
            return res.status(404).json({success:false,msg:`No company with the id of ${req.params.companyId}`});
        }

        const requestedDate = new Date(req.body.apptDate);

        const startOfDay = new Date(requestedDate);
        startOfDay.setHours(0, 0, 0, 0);

        const endOfDay = new Date(requestedDate);
        endOfDay.setHours(23, 59, 59, 999);

        const bookingsOnThisDate = await Booking.countDocuments({
            company: req.params.companyId,
            apptDate: {
                $gte: startOfDay,
                $lte: endOfDay
            }
        });

        if(bookingsOnThisDate >= company.maxSlots) {
            return res.status(400).json({
                success: false,
                msg: `Company ${company.name} has reached its maximum number of interview slots for ${startOfDay.toDateString()}`
            });
        }
```

Check If it exceed max slots

```
        //add user id to req.body
        req.body.user=req.user.id;
        //check for existed appt
        const existedBooking = await Booking.find({user:req.user.id});
        //if the user is not an admin,they can create only 3 appts
        if(existedBooking.length>=3&&req.user.role !== 'admin'){
            return res.status(400).json({success:false,msg:`The user with ID ${req.user.id} has already made 3 bookings`});
        }
        // //Check if the same date is already booked for this company
        // const existingAppointment = await Booking.findOne({
        //     company: req.params.companyId,
        //     apptDate: new Date(req.body.apptDate)
        // });

        // if(existingAppointment) {
        //     return res.status(400).json({
        //         success: false,
        //         msg: `A Booking for ${company.name} on this date already exists`
        //     });
        // }

        // Check if the same user already booked this company on the same date
        const duplicateUserBooking = await Booking.findOne({
            company: req.params.companyId,
            user: req.user.id,
            apptDate: {
                $gte: startOfDay,
                $lte: endOfDay
            }
        });

        if (duplicateUserBooking) {
            return res.status(400).json({
                success: false,
                msg: `You have already booked an interview with ${company.name} on ${requestedDate.toDateString()}`
            });
        }

        const booking = await Booking.create(req.body);

        res.status(200).json({success:true,data:booking});
    }
    catch (err) {
        console.log(err.stack);

        if (err.name === 'ValidationError') {
            return res.status(400).json({
                success: false,
                message: Object.values(err.errors).map(val => val.message).join(', ')
            });
        }

        return res.status(500).json({ success: false, message: "Cannot create Booking" });
    }
};
```

Remove same-date check for any user (replaced by better max slot logic)

Add user duplicate booking check on same company & date

controller/booking.js

```
        // Now check if max slots would be exceeded
        if(bookingsOnNewDate >= company.maxSlots) {
            return res.status(400).json({
                success: false,
                msg: `Company ${company.name} has reached its maximum number of interview slots for ${startOfDay.toDateString()}`
            });
        }
    }

    // Update the booking
    booking = await Booking.findByIdAndUpdate(req.params.id, req.body, {
        new: true,
        runValidators: true
    });

    res.status(200).json({success: true, data: booking});
}
catch(err){
    console.log(err.stack);
    return res.status(500).json({success: false, message: "Cannot update Booking"});
}
};
```

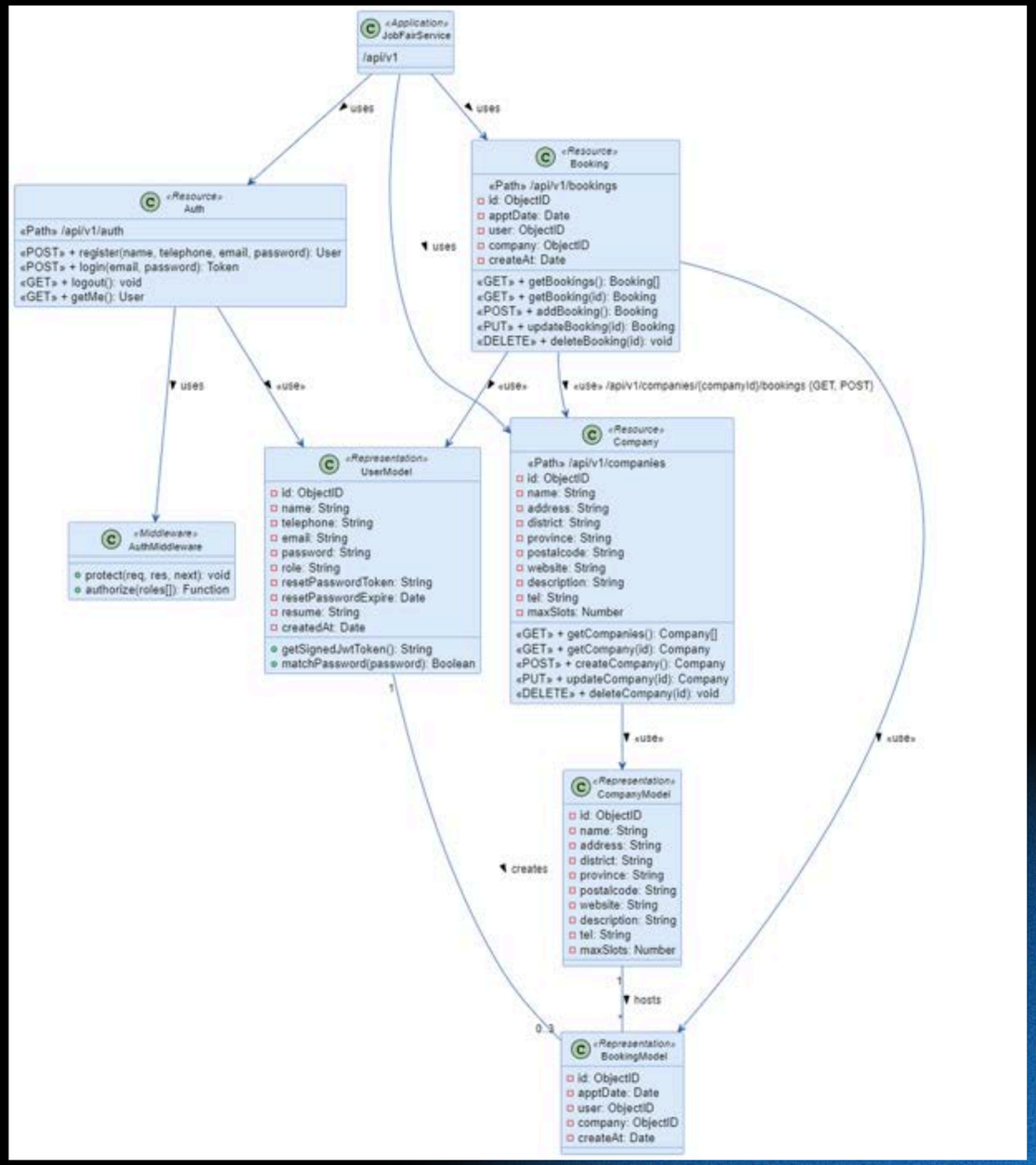
Check If it exceed max slots

```
//put api/v1/bookings/:id
//access private
exports.updateBooking = async (req,res,next) => {
    try{
        // First, find the booking
        let booking = await Booking.findById(req.params.id);
        if(!booking){
            return res.status(404).json({success:false,msg:`No booking with the id of ${req.params.id}`});
        }

        // Check authorization - do this early
        if(booking.user.toString() !== req.user.id && req.user.role !== 'admin'){
            return res.status(401).json({success:false,msg:`User ${req.user.id} is not authorized to update this booking`});
        }

        // If we're changing the date, check for conflicts
        if(req.body.apptDate) {
            const currentDate = new Date(booking.apptDate);
            const newDate = new Date(req.body.apptDate);

            if(currentDate.toDateString() === newDate.toDateString()) {
                return res.status(400).json({
                    success: false,
                    msg: `You must choose a different date when updating your booking`
                });
            }


            const company = await Company.findById(booking.company);

            if(!company) {
                return res.status(404).json({success:false, msg: 'Company not found'});
            }


            const startOfDay = new Date(newDate);
            startOfDay.setHours(0, 0, 0, 0);

            const endOfDay = new Date(newDate);
            endOfDay.setHours(23, 59, 59, 999);

            // Count bookings on the new date (excluding this booking)
            const bookingsOnNewDate = await Booking.countDocuments({
                company: booking.company,
                apptDate: {
                    $gte: startOfDay,
                    $lte: endOfDay
                },
                _id: { $ne: req.params.id } // Exclude current booking
            });
```

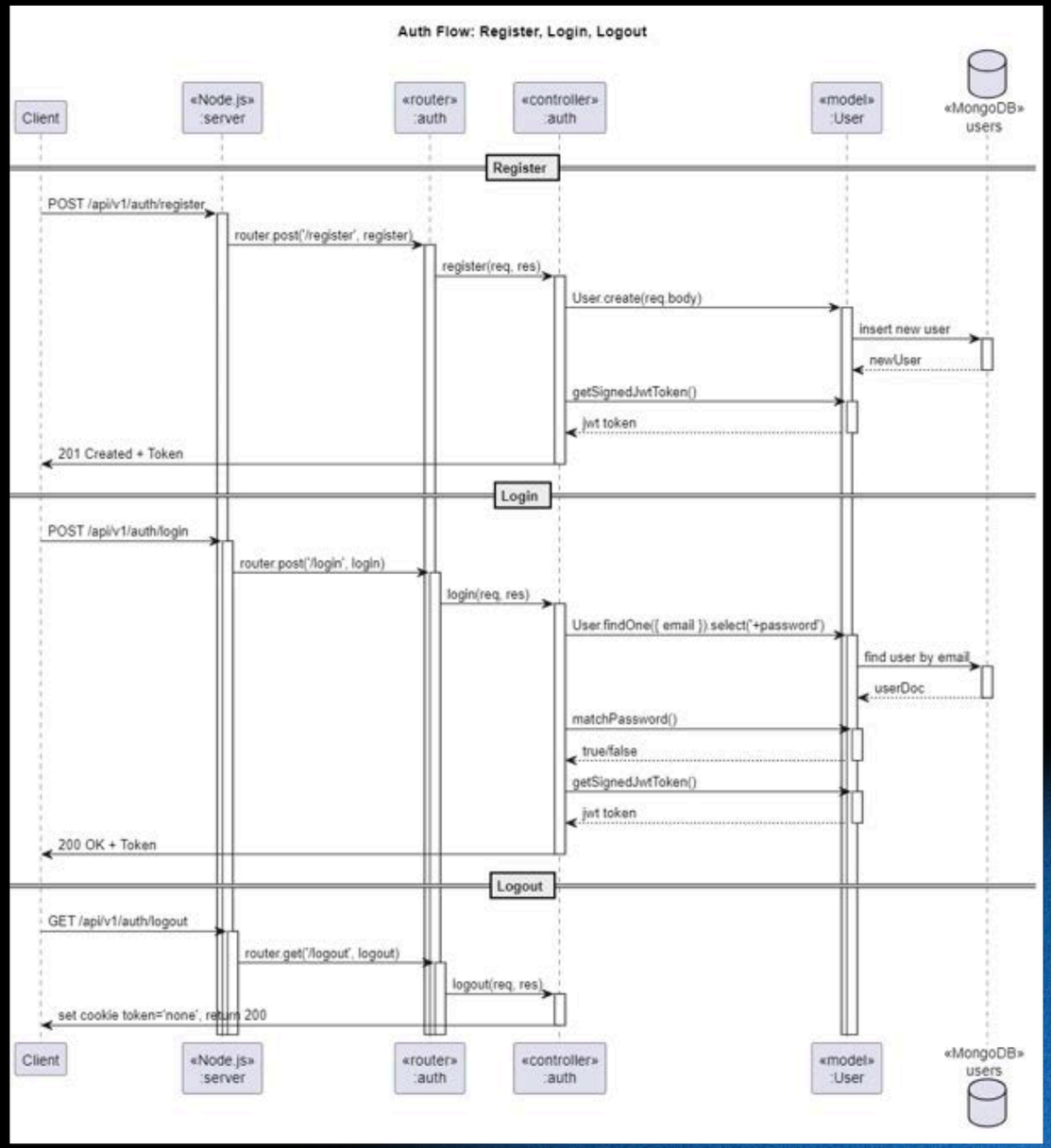
Add if body contains apptData then check Is it the same booking

Count the number of bookings in the same day

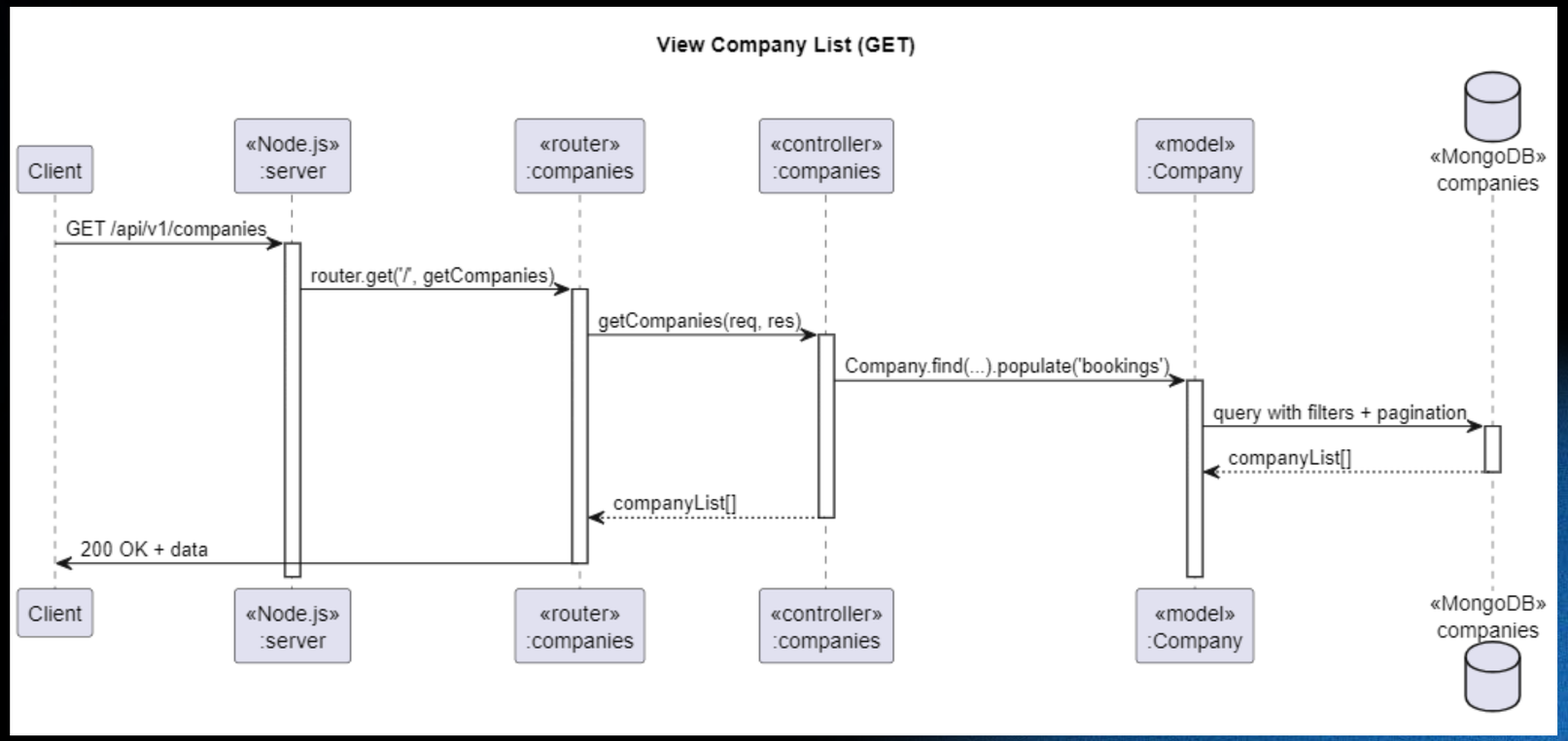
Class Diagram



Sequence Diagram



Sequence Diagram



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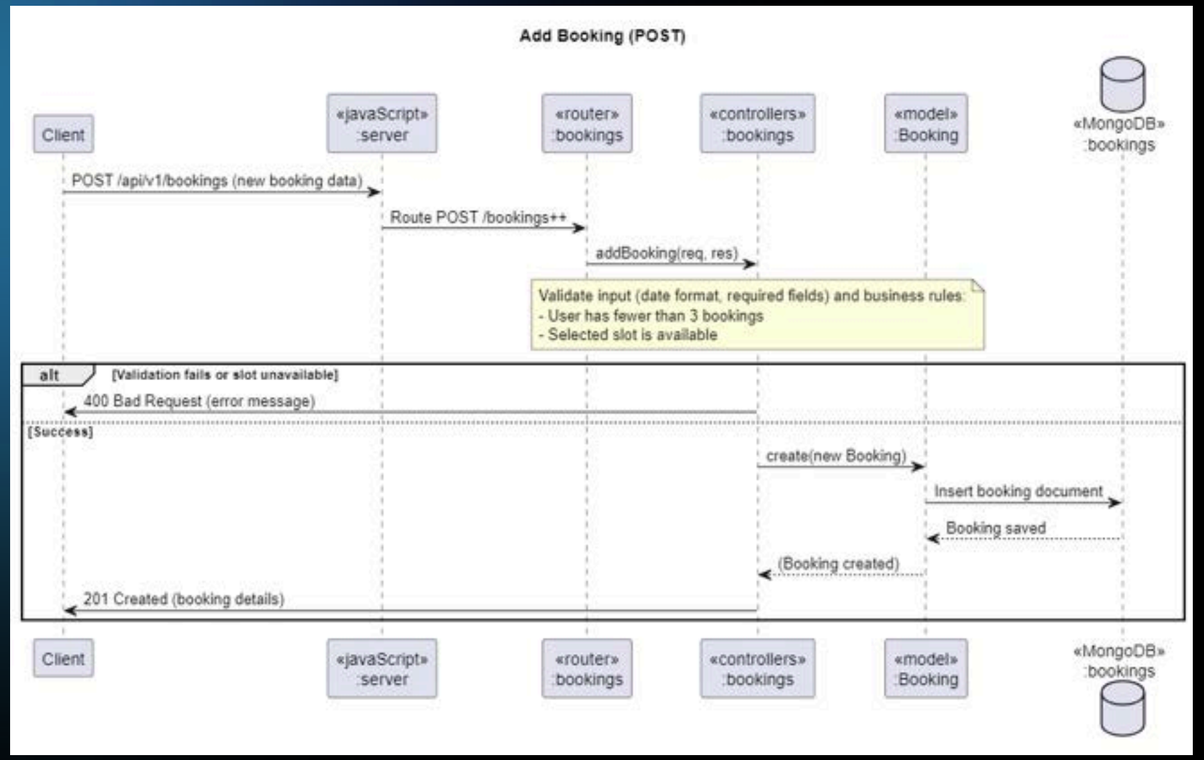
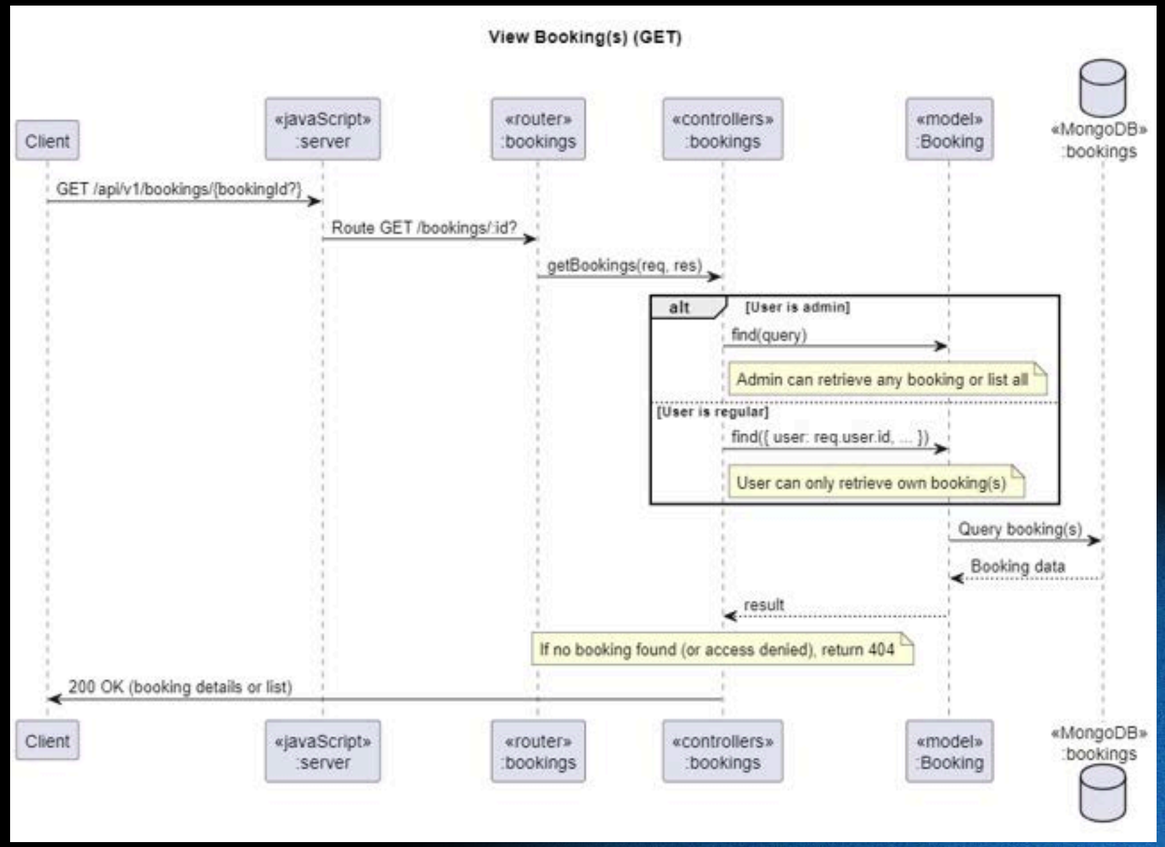
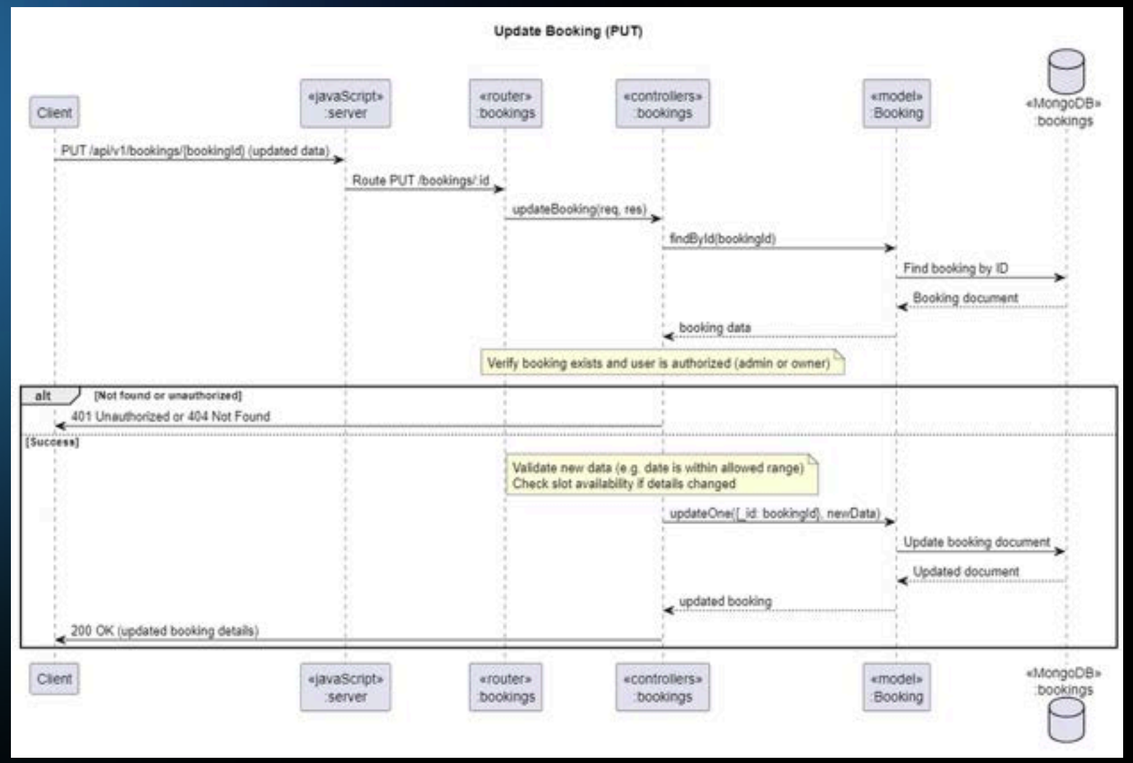
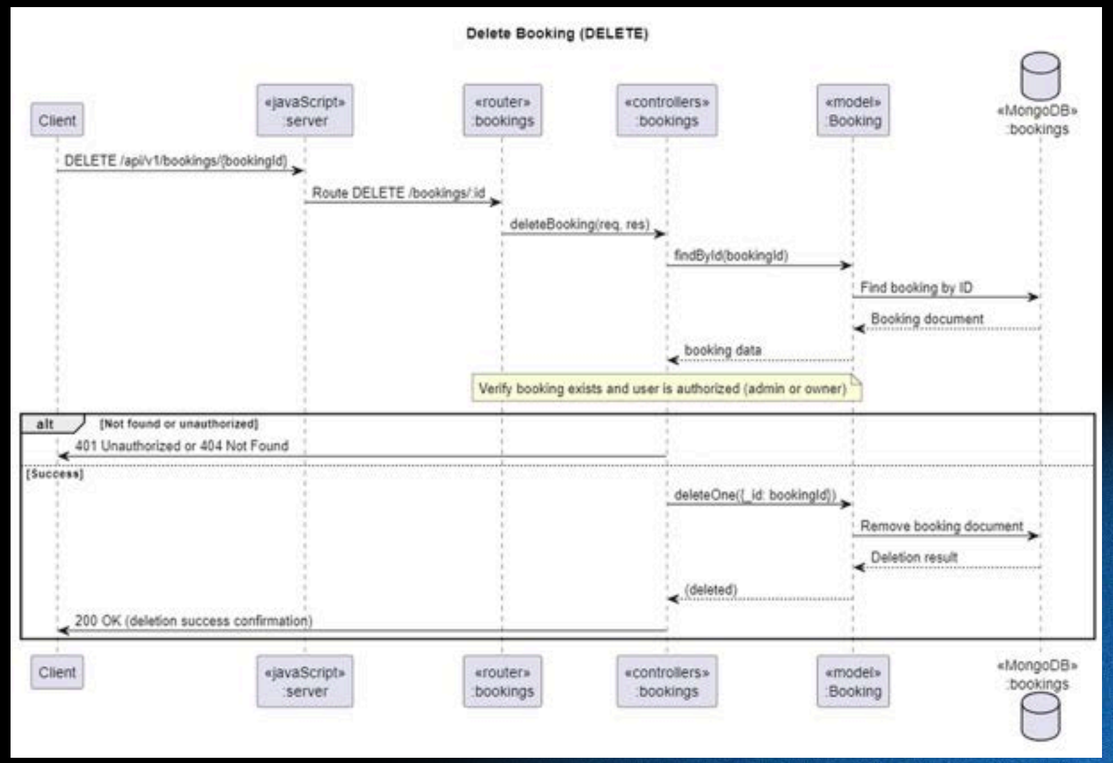




Sequence Diagram





Extra Credits

Tutorials

https://www.youtube.com/watch?v=fvP6Ls8NlYk&t=3s

INTERVIEW SESSION AVAILABILITY

The system shall allow admins to set and update the maximum number of interview slots for each company.

BOOKMARK

The system shall allow registered users to bookmark preferred companies for quick access. Users can add, view, and remove bookmarks.

AI INTERVIEW ASSISTANCE

The system shall allow a registered user to receive AI-generated interview tips, question suggestions, or resume feedback using an LLM API.

FORGOT PASSWORD

The system shall allow users to reset their password if they forget it by sending a Password Reset Email containing a reset link.

RESUME UPLOAD

The system shall allow a registered user to upload a PDF resume after registration.

CONTRIBUTIONS

SET UP MONGODB & GITHUB REPO	PRAEPLOY
FUNCTIONAL REQUIREMENT	
1-3	PRAEPLOY
4-9	POKKRONG
ADDITIONAL REQUIREMENT	
Interview Session Availability	POKKRONG
Forgot Password	PRAEPLOY
Bookmark	PRAEPLOY
Resume Upload	PRAEPLOY
AI Interview Assistance	POKKRONG

GitHub Repo

https://github.com/praeploykiat/SW_Dev_Final_Project

THANK YOU

https://github.com/praeploykiat/SW_Dev_Final_Project

APPENDIX

Extra Credits

Tutorials

https://www.youtube.com/watch?v=fvP6Ls8NlYk&t=3s

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Interview Session Availability

The system shall allow admins to set and update the maximum number of interview slots for each company

models/Company.js

```
tel:{
        type:String,
    },
    maxSlots: {
        type: Number,
        required: [true, 'Please add the maximum number of interview slots'],
        default: 10,
        validate: {
            validator: function(val) {
                return val > 0;
            },
            message: 'Maximum slots must be a positive number'
        }
    },
```

Add maxSlots field into CompanySchema

Add constraint maxSlots always >0

routes/companies.js

Add updateMaxSlots

```
const {getCompanies,getCompany,createCompany,updateCompany,deleteCompany, updateMaxSlots} = require('../controller/companies');
```

```
/ Add this new route for updating max slots
router.route('/:id/slots').put(protect, authorize('admin'), updateMaxSlots);
```

Interview Session Availability

controller/bookings.js

```
if(!company){
        return res.status(404).json({success:false,msg:`No company with the id of ${req.params.companyId}`});
    }

    const requestedDate = new Date(req.body.apptDate);

    const startOfDay = new Date(requestedDate);
    startOfDay.setHours(0, 0, 0, 0);

    const endOfDay = new Date(requestedDate);
    endOfDay.setHours(23, 59, 59, 999);

    const bookingsOnThisDate = await Booking.countDocuments({
        company: req.params.companyId,
        apptDate: {
            $gte: startOfDay,
            $lte: endOfDay
        }
    });

    if(bookingsOnThisDate >= company.maxSlots) {
        return res.status(400).json({
            success: false,
            msg: `Company ${company.name} has reached its maximum number of interview slots for ${startOfDay.toDateString()}`
        });
    }
```

Interview Session Availability

controller/companies.js

```
/**
 * @desc    Update maximum slots for a company
 * @route   PUT /api/companies/:id/slots
 * @access  Private/Admin
 */
exports.updateMaxSlots = async (req, res, next)=>{
    try{
        const {maxSlots} = req.body;
        //validate input
        if(!maxSlots|| !Number.isInteger(maxSlots) || maxSlots <1){
            return res.status(400).json({
                success: false,
                error : 'Please provide a valid positive integer for maximum slots'
            });
        }

        const company = await Company.findByIdAndUpdate(
            req.params.id,
            {maxSlots},
            {new: true, runValidators: true}
        );
        if(!company){
            return res.status(404).json({
                success: false,
                error: `Company with id ${req.params.id} not found`
            });
        }
        res.status(200).json({
            success: true,
            data: company
        });
    }catch (err) {
        console.log(err.stack);
        res.status(500).json({
            success: false,
            error: 'Server error updating maximum slots'
        });
    }
};
```

AI Interview Assistance

The system shall allow a registered user to receive AI-generated interview tips, question suggestions, or resume feedback using an LLM API.

config/config.env

```
GEMINI_API_KEY=Your API KEY
```

Change to your gemini API key

routes/aiController.js

```
const express = require('express');
const router = express.Router();
const { generateAIResponse } = require('../controller/aiController');
const { protect } = require('../middleware/auth');

router.post('/generate', protect, generateAIResponse);

module.exports = router;
```

server.js

```
const aiRoutes = require('./routes/aiController');
```

```
app.use('/api/ai', aiRoutes);
```

AI Interview Assistance

don’t forget to npm install axios

utils/ai.js

```
const axios = require('axios'); //need to npm install axios

/**
 * @param {string} apiKey - Gemini API key
 * @param {string} prompt - The text prompt to send to the model
 * @param {string} model - The model to use (default: 'gemini-2.0-flash')
 * @returns {Promise<object>} - The API response
 */
async function generateContent(apiKey, prompt, model = 'gemini-2.0-flash') {
  try {
    const response = await axios.post(
      `https://generativelanguage.googleapis.com/v1beta/models/${model}:generateContent?key=${apiKey}`,
      {
        contents: [{
          parts: [{ text: prompt }]
        }]
      },
      {
        headers: {
          'Content-Type': 'application/json'
        }
      }
    );

    return response.data;
  } catch (error) {
    throw new Error(`Request failed: ${error.message}`);
  }
}
```

```
/**
 * Extract text content from Gemini API response
 * @param {object} response - The API response
 * @returns {string} - The extracted text
 */
function extractTextFromResponse(response) {
  try {
    return response.candidates[0].content.parts[0].text;
  } catch (error) {
    throw new Error(`Failed to extract text from response: ${error.message}`);
  }
}

module.exports = {
  generateContent,
  extractTextFromResponse
};
```

AI Interview Assistance

controller/aiController.js

Add on the right first

```
/**
 * Format AI response text
 * @param {string} text - Raw text from AI response
 * @returns {string} - Formatted text
 */
function formatTextResponse(text) {
  if (!text) return "No response generated.";

  // Replace multiple newlines with just two
  text = text.replace(/\n{3,}/g, '\n\n');

  // Add proper spacing after punctuation if missing
  text = text.replace(/([.!?])\s*([A-Z])/g, '$1 $2');

  // Add horizontal line for separation
  const separator = '\n' + '-'.repeat(60) + '\n';

  return separator + text + separator;
}
```

```
const { generateContent, extractTextFromResponse } = require('../utils/ai');
require('dotenv').config();

/**
 * @desc    Get AI response for a prompt
 * @route   POST /api/ai/generate
 * @access  Private
 */
exports.generateAIResponse = async (req, res) => {
  try {
    const { prompt } = req.body;

    // Validate input
    if (!prompt || typeof prompt !== 'string') {
      return res.status(400).json({
        success: false,
        error: 'Please provide a valid prompt string'
      });
    }

    const apiKey = process.env.GEMINI_API_KEY;
    if (!apiKey) {
      return res.status(500).json({
        success: false,
        error: 'Server configuration error: API key not found'
      });
    }

    const response = await generateContent(apiKey, prompt);
    let textOutput = extractTextFromResponse(response);

    //format text
    textOutput = formatTextResponse(textOutput);

    return res.status(200).send(textOutput);
  } catch (error) {
    console.error('AI generation error:', error);
    return res.status(500).json({
      success: false,
      error: 'Error generating AI response',
      message: error.message
    });
  }
};
```

Forgot Password

The system shall allow users to reset their password if they forget it by sending a Password Reset Email containing a reset link.

config/config.env

```
EMAIL_USER = swdevjobfair@gmail.com
EMAIL_PASS =
```

App Password, not your actual Gmail password !!

routes/passwordReset.js

```
const express = require('express');
const router = express.Router();
const { requestPasswordReset, resetPassword } = require('../controller/passwordReset');

// Route to request password reset
router.post('/requestPasswordReset', requestPasswordReset);

// Route to reset password using token and user ID
router.put('/resetPassword/:id/:token', resetPassword);

module.exports = router;
```

server.js

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

```
app.use('/api/v1/auth', passwordReset);
```

Forgot Password

controller/passwordReset.js

requestPasswordReset

```
const jwt = require('jsonwebtoken');          // For generating a secure, time-limited token
const nodemailer = require('nodemailer');     // For sending password reset emails
const User = require('../models/User');       // User model (MongoDB)
const fs = require('fs');                     // For reading the HTML email template
const path = require('path');                 // To help build cross-platform file paths
```

```
// @desc    Send password reset link via email
// @route   POST /api/v1/auth/requestPasswordReset
// @access  Public
exports.requestPasswordReset = async (req, res) => {
  const { email } = req.body;

  try {
    const user = await User.findOne({ email });
    if (!user) {
      return res.status(404).json({ success: false, message: "User doesn't exist" });
    }

    const secret = process.env.JWT_SECRET + user.password;
    const token = jwt.sign({ id: user._id, email: user.email }, secret, { expiresIn: '1h' });
    const resetURL = `http://localhost:5000/api/v1/auth/resetPassword/${user._id}/${token}`;

    const transporter = nodemailer.createTransport({
      service: 'gmail',
      auth: {
        user: process.env.EMAIL_USER,
        pass: process.env.EMAIL_PASS,
      },
    });
```

Gets the user's email from the request body.

Looks up the user in the database using their email.

If the user isn't found, return an error.

Create a secure JWT reset token.

Create a reset URL.

Set up the email transporter.

Forgot Password

utils/resetPasswordEmail.html

```html
<div
    style="font-family: Arial, sans-serif; padding: 24px; border-radius: 10px; background: #f9f9f9; border: 1px solid #ccc;">
    <h2 style="color: #2c3e50;">Reset Your Password</h2>
    <p>Hello <strong>{{name}}</strong>,</p>
    <p>We received a request to reset your password. Use the following URL as the <strong>PUT request path</strong> in
        Postman:</p>
    <div style="margin: 20px 0;">
        <code
            style="background: #f0f0f0; padding: 12px; display: block; border-radius: 6px; font-family: monospace; font-size: 14px; color: #333;">
        PUT {{resetURL}}
        </code>
    </div>
    <p>Include this JSON body in the request:</p>
    <pre style="background: #f0f0f0; padding: 12px; border-radius: 6px; font-family: monospace; font-size: 14px;">
{
  "password": "yourNewPasswordHere"
}
    </pre>
    <p>If you didn't request this reset, you can safely ignore this email.</p>
    <p style="margin-top: 24px;">Warm regards,<br><strong>Online Job Fair Team</strong></p>
</div>
```

controller/passwordReset.js

requestPasswordReset

```
    const filePath = path.join(__dirname, '../utils/resetPasswordEmail.html');
    let emailHTML = fs.readFileSync(filePath, 'utf8');
    emailHTML = emailHTML
      .replace('{{name}}', user.name)
      .replace('{{resetURL}}', resetURL);

    const mailOptions = {
      to: user.email,
      from: process.env.EMAIL_USER,
      subject: 'Reset Your Password - Online Job Fair',
      html: emailHTML,
    };

    await transporter.sendMail(mailOptions);

    res.status(200).json({ success: true, message: 'Password reset link sent' });
  } catch (err) {
    console.error(err.stack);
    res.status(500).json({ success: false, message: 'Server error' });
  }
```

Load and personalize email template.

Send the email.

Send back a success message.

Forgot Password

controller/passwordReset.js

resetPassword

```
// @desc    Reset user password using token from email
// @route   PUT /api/v1/auth/resetPassword/:id/:token
// @access  Public
exports.resetPassword = async (req, res) => {
  const { id, token } = req.params;
  const { password } = req.body;

  try {
    const user = await User.findById(id);
    if (!user) {
      return res.status(404).json({ success: false, message: 'User not found' });
    }

    const secret = process.env.JWT_SECRET + user.password;

    try {
      jwt.verify(token, secret);
    } catch (err) {
      return res.status(400).json({ success: false, message: 'Invalid or expired token', detail: err.message });
    }

    user.password = password; // Will be hashed by Mongoose pre-save hook
    await user.save();

    console.log('✅ Password reset for:', user.email);

    res.status(200).json({ success: true, message: 'Password has been reset' });
  } catch (err) {
    console.error(err.stack);
    res.status(500).json({ success: false, message: 'Server error' });
  }
};
```

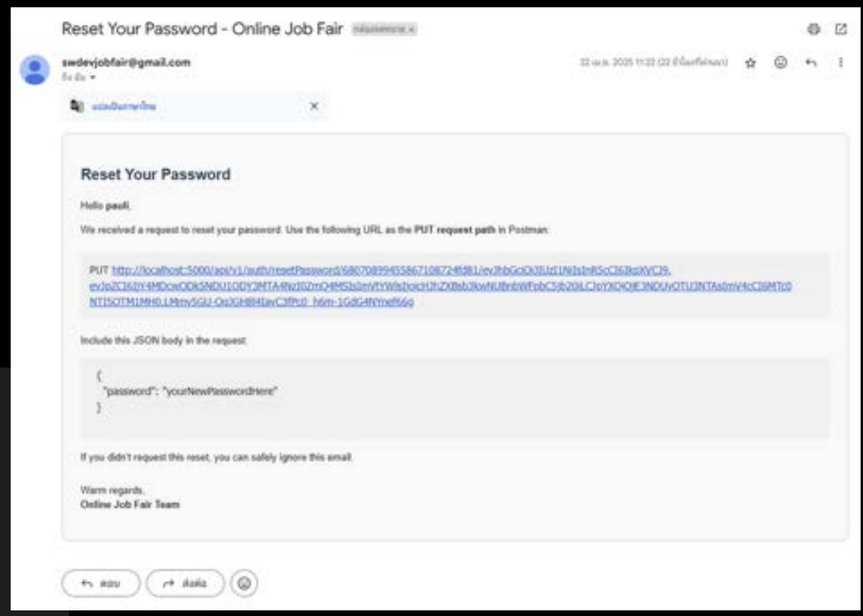
Gets the user ID and token from the URL, and new password from the request body.

Constructs the same secret that was used to generate the token earlier.

Verifies the token is valid and has not expired.

Save new password.

Success response.



Bookmark

The system shall allow registered users to bookmark preferred companies for quick access. Users can add, view, and remove bookmarks.

model/Bookmark.js

```
const mongoose = require('mongoose');

const BookmarkSchema = new mongoose.Schema({
  user: {
    type: mongoose.Schema.Types.ObjectId,
    ref: 'User',
    required: true
  },
  company: {
    type: mongoose.Schema.Types.ObjectId,
    ref: 'Company',
    required: true
},
  createdAt: {
    type: Date,
    default: Date.now
  }
});

BookmarkSchema.index({ user: 1, company: 1 }, { unique: true }); // prevent duplicates

module.exports = mongoose.model('Bookmark', BookmarkSchema);
```

Adds a unique index to prevent a user from bookmarking the same company more than once.

Bookmark

The system shall allow registered users to bookmark preferred companies for quick access. Users can add, view, and remove bookmarks.

controller/bookmark.js

```
const Bookmark = require('../models/Bookmark');
const Company = require('../models/Company');

// ✅ Add bookmark using companyId only
exports.addBookmark = async (req, res) => {
  try {
    const { companyId } = req.body;

    if (!companyId) {
      return res.status(400).json({ success: false, message: 'companyId is required' });
    }

    const company = await Company.findById(companyId);
    if (!company) {
      return res.status(404).json({ success: false, message: 'Company not found' });
    }

    const bookmark = await Bookmark.create({
      user: req.user.id,
      company: company._id
    });

    res.status(201).json({ success: true, data: bookmark });

  } catch (err) {
    if (err.code === 11000) {
      return res.status(400).json({ success: false, message: 'Already bookmarked' });
    }

    console.error('❌ Bookmark creation failed:', err);
    res.status(500).json({ success: false, message: 'Failed to bookmark' });
  }
};
```

Check if companyId was provided in the request body.

Validate that the company exists.

Create a new bookmark linked to the logged-in user.

Find all bookmarks of the logged-in user and populate company info.

```
// ✅ Get all bookmarks for current user
exports.getBookmarks = async (req, res) => {
  try {
    const bookmarks = await Bookmark.find({ user: req.user.id })
      .populate('company', 'name address tel website description');

    res.status(200).json({ success: true, data: bookmarks });
  } catch (err) {
    console.error(err);
    res.status(500).json({ success: false, message: 'Failed to retrieve bookmarks' });
  }
};

// ✅ Remove bookmark using companyId only (via URL param)
exports.removeBookmark = async (req, res) => {
  try {
    const companyId = req.params.companyId;

    const result = await Bookmark.findOneAndDelete({
      user: req.user.id,
      company: companyId
    });

    if (!result) {
      return res.status(404).json({ success: false, message: 'Bookmark not found' });
    }

    res.status(200).json({ success: true, message: 'Bookmark removed' });
  } catch (err) {
    console.error(err);
    res.status(500).json({ success: false, message: 'Failed to remove bookmark' });
  }
};
```

Delete a bookmark where the user and company match.

Bookmark

The system shall allow registered users to bookmark preferred companies for quick access. Users can add, view, and remove bookmarks.

routes/bookmark.js

```
const express = require('express');
const router = express.Router();
const { addBookmark, getBookmarks, removeBookmark } = require('../controller/bookmark');
const { protect } = require('../middleware/auth');

router.post('/', protect, addBookmark);
router.get('/', protect, getBookmarks);
router.delete('/:companyId', protect, removeBookmark);

module.exports = router;
```

server.js

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

```
app.use('/api/v1/bookmarks', bookmark);
```

Bookmark

The system shall allow registered users to bookmark preferred companies for quick access. Users can add, view, and remove bookmarks.

controller/companies.js

```
const Bookmark = require('../models/Bookmark');
```

```
exports.deleteCompany = async (req,res,next) => {
    try {
        const company = await Company.findById(req.params.id);
        //const company = await Company.findByIdAndDelete(req.params.id);
        if(!company){
            return res.status(400).json({success:false,msg:`Company not found with id of ${req.params.id}`});
        }
        await Booking.deleteMany({ company: req.params.id });
        await Bookmark.deleteMany({ company: req.params.id });
        await Company.deleteOne({_id:req.params.id});

        res.status(200).json({success:true,data:{}})
    } catch (err) {
        res.status(400).json({success:false});
    }
};
```

When a company is deleted, every Bookmark made to that companyshould also be deleted.

Resume Upload

The system shall allow a registered user to upload a PDF resume after registration.

models/User.js

```
resume: {
    type: String,
    default: null
},
```

middleware/resume.js

```
const multer = require('multer');
const path = require('path');
const fs = require('fs');

const storage = multer.diskStorage({
  destination: function (req, file, cb) {
    const dir = 'uploads/resumes/';
    if (!fs.existsSync(dir)) fs.mkdirSync(dir, { recursive: true });
    cb(null, dir);
  },
  filename: function (req, file, cb) {
    const ext = path.extname(file.originalname);
    const filename = `resume-${req.user.id}${ext}`;
    const filePath = path.join('uploads/resumes/', filename);

    if (fs.existsSync(filePath)) fs.unlinkSync(filePath); // ✅ ลบไฟล์เก่าก่อน

    cb(null, filename);
  }
});

const upload = multer({
  storage,
  fileFilter: (req, file, cb) => {
    if (file.mimetype === 'application/pdf') cb(null, true);
    else cb(new Error('Only PDF files are allowed'));
  },
  limits: {
    files: 1 // ✅ ไม่ให้เกิน 1 ไฟล์
  }

});

module.exports = upload;
```

Creates the folder uploads/resumes/ if it doesn't exist.

Renames the uploaded file to a consistent format.

If a file already exists, it deletes the old one.

Only allows PDF file.

Restricts to 1 file per upload.

Resume Upload

The system shall allow a registered user to upload a PDF resume after registration.

controller/resumeController.js

```
const fs = require('fs');
const path = require('path');
const User = require('../models/User');

exports.updateResume = async (req, res) => {
  try {
    if (!req.file) {
      return res.status(400).json({ success: false, message: 'No file uploaded' });
    }

    const user = await User.findById(req.user.id);
    user.resume = req.file.path;
    await user.save();

    res.status(200).json({ success: true, message: 'Resume uploaded successfully', resume: user.resume });
  } catch (err) {
    console.error(err);
    res.status(500).json({ success: false, message: 'Upload failed' });
  }
};

exports.deleteResume = async (req, res) => {
  try {
    const user = await User.findById(req.user.id);
    if (!user.resume) return res.status(400).json({ success: false, message: 'No resume to delete' });

    const resumePath = path.resolve(user.resume);
    if (fs.existsSync(resumePath)) fs.unlinkSync(resumePath);

    user.resume = null;
    await user.save();

    res.status(200).json({ success: true, message: 'Resume deleted' });
  } catch (err) {
    console.error(err);
    res.status(500).json({ success: false, message: 'Failed to delete resume' });
  }
};

                                  (parameter) res: any
exports.getResume = async (req, res) => {
  try {
    const filePath = path.join(__dirname, '..', 'uploads/resumes', `resume-${req.user.id}.pdf`);
    if (!fs.existsSync(filePath)) return res.status(404).json({ success: false, message: 'No resume uploaded yet' });

    res.sendFile(path.resolve(filePath));
  } catch (err) {
    console.error(err);
    res.status(500).json({ success: false, message: 'Failed to retrieve resume' });
  }
};
```

Saves the uploaded file path to the user’s record..

Deletes the file from disk and clears the path in the DB.

Sends the PDF file back to the user.

Resume Upload

The system shall allow a registered user to upload a PDF resume after registration.

routes/resume.js

```
const express = require('express');
const router = express.Router();
const { protect } = require('../middleware/auth');
const upload = require('../middleware/resume');

const {
  updateResume,
  deleteResume,
  getResume
} = require('../controller/resumeController');

router.put('/', protect, upload.single('resume'), updateResume);
router.delete('/', protect, deleteResume);
router.get('/', protect, getResume);

module.exports = router;
```

server.js

```
const resume = require('./routes/resume.js');
app.use('/api/v1/auth', resume);
```

```
// Global error handler — this should be placed **AFTER** all routes
app.use((err, req, res, next) => {
    console.error(err.stack);

    if (err.name === 'MulterError') {
      // e.g. too many files, unexpected field
      return res.status(400).json({
        success: false,
        message: `Upload error: ${err.message}`
      });
    }

    res.status(500).json({
      success: false,
      message: err.message || 'Server Error'
    });
  });
```