Experiment No - 10

Roll No.	52
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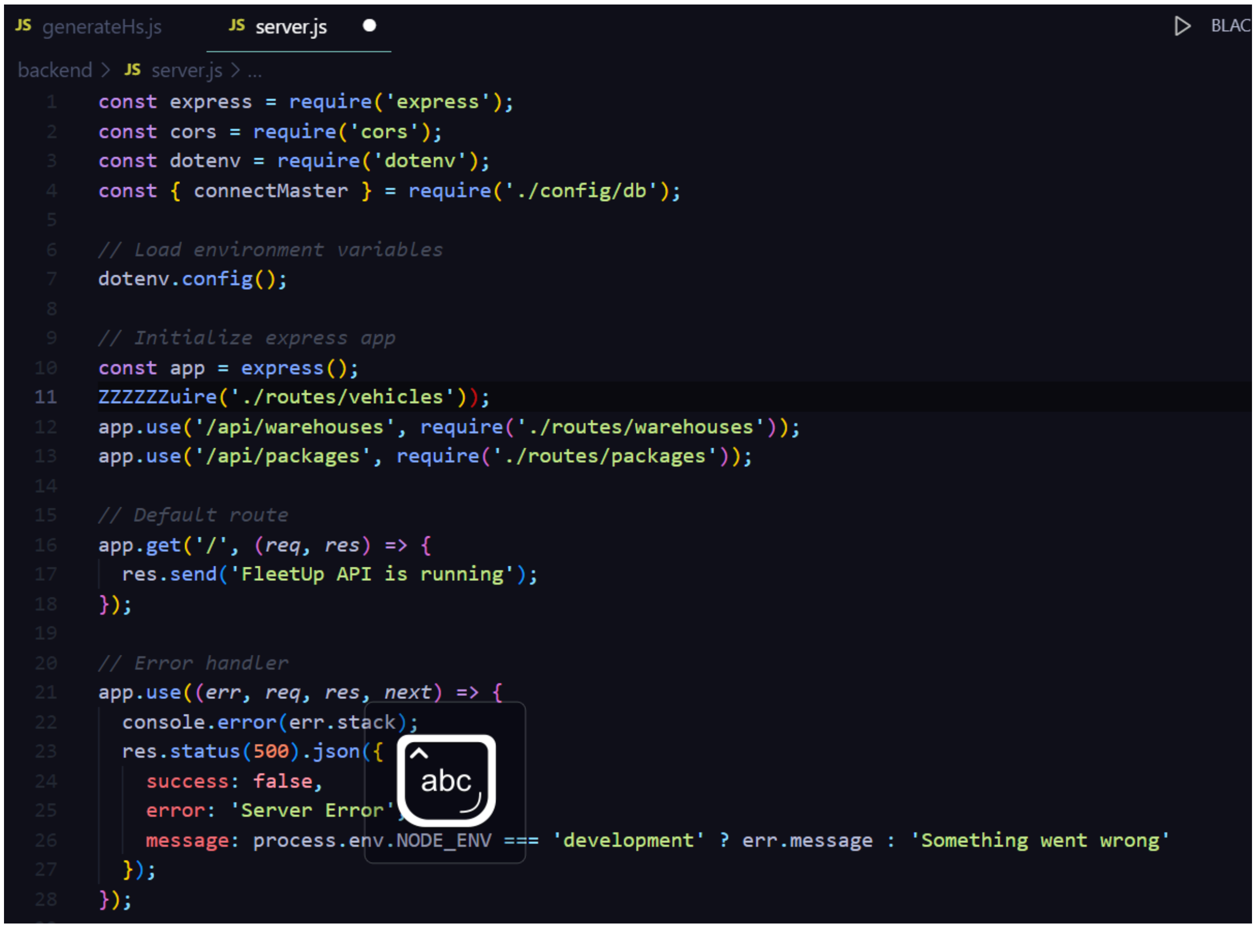
Class	D15B
Subject	Full Stack Development
Lab Outcome	L6
Date of Performance / Submission	27/10/2025 28/10/2025
Signature & Grades	

Experiment 10

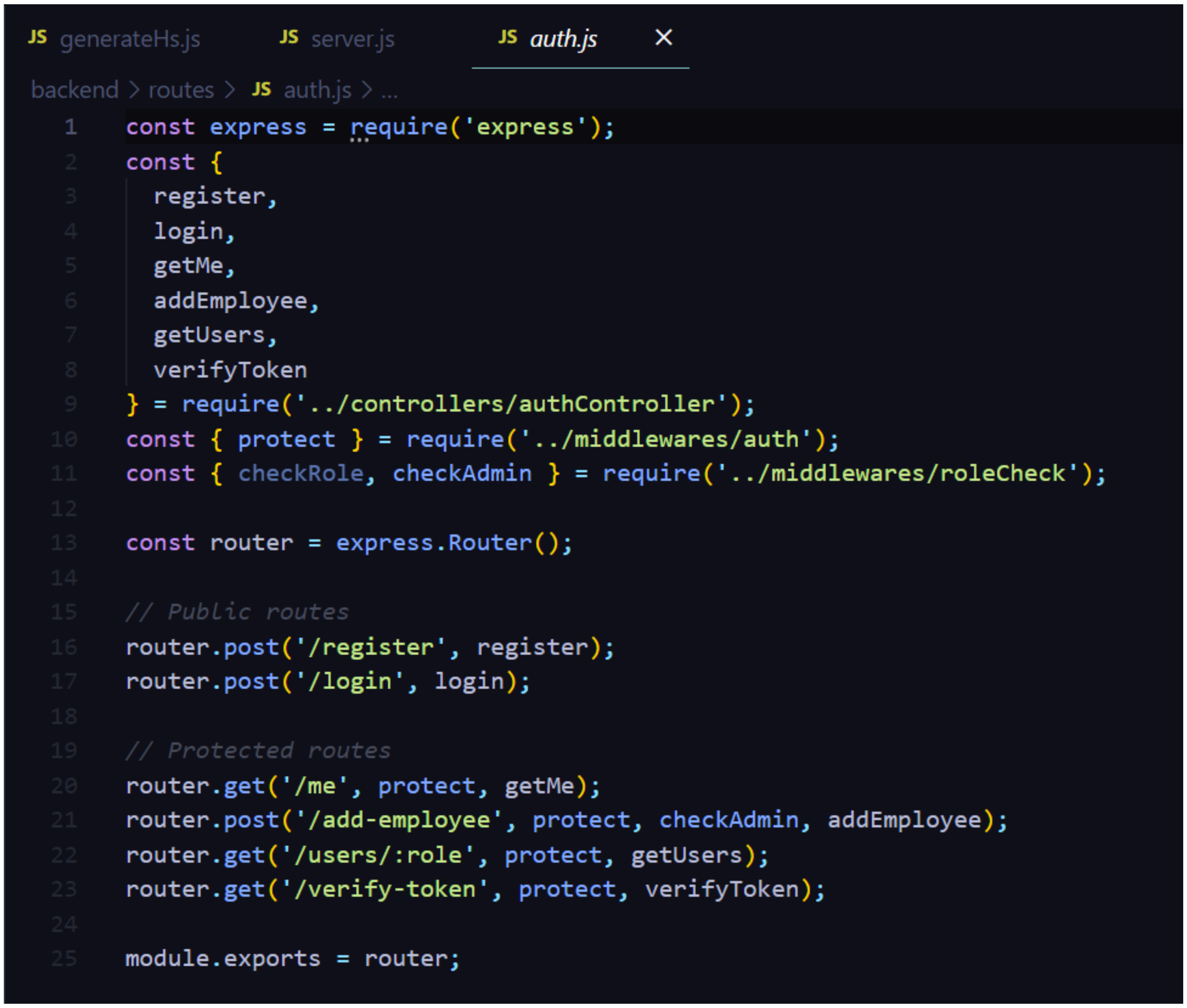
Aim : Deploy full-stack apps using DevOps tools and Docker

Code :



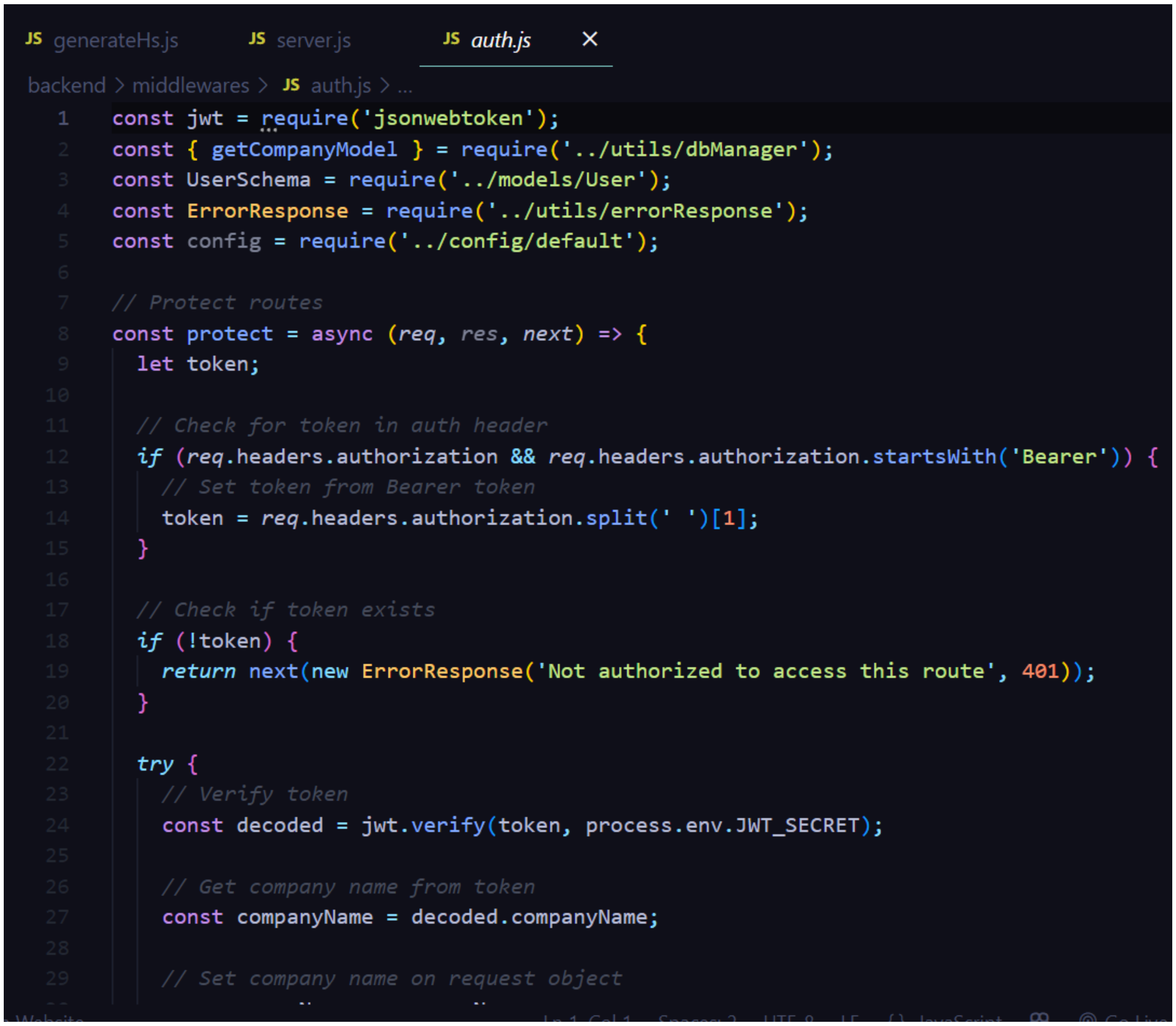
```javascript
const express = require('express');
const cors = require('cors');
const dotenv = require('dotenv');
const { connectMaster } = require('./config/db');

// Load environment variables
dotenv.config();

// Initialize express app
const app = express();
ZZZZZZuire('./routes/vehicles'));
app.use('/api/warehouses', require('./routes/warehouses'));
app.use('/api/packages', require('./routes/packages'));

// Default route
app.get('/', (req, res) => {
  res.send('FleetUp API is running');
});

// Error handler
app.use((err, req, res, next) => {
  console.error(err.stack);
  res.status(500).json({
    success: false,
    error: 'Server Error',
    message: process.env.NODE_ENV === 'development' ? err.message : 'Something went wrong'
  });
});
```

Figure 1



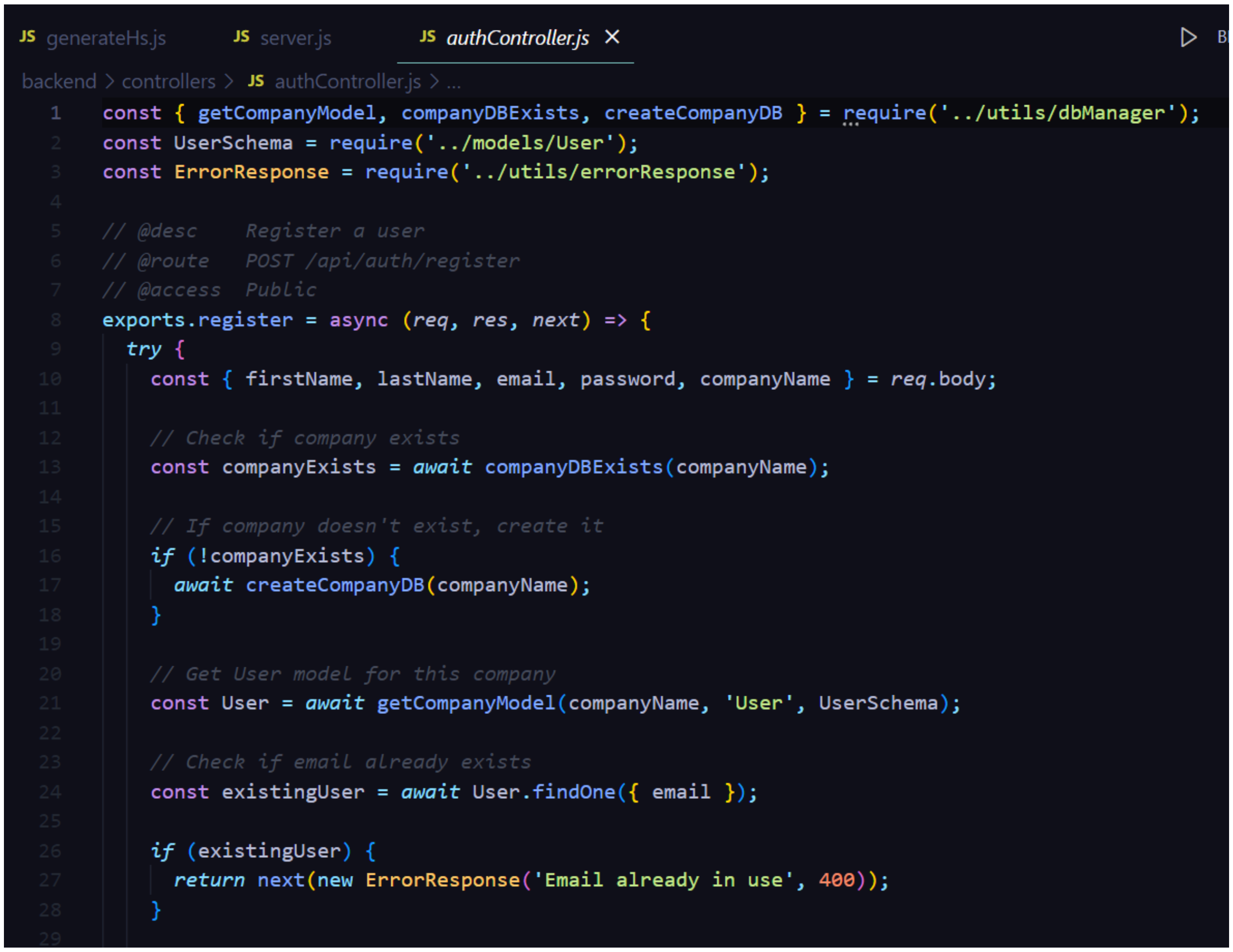
```javascript
const express = require('express');
const {
  register,
  login,
  getMe,
  addEmployee,
  getUsers,
  verifyToken
} = require('../controllers/authController');
const { protect } = require('../middlewares/auth');
const { checkRole, checkAdmin } = require('../middlewares/roleCheck');

const router = express.Router();

// Public routes
router.post('/register', register);
router.post('/login', login);

// Protected routes
router.get('/me', protect, getMe);
router.post('/add-employee', protect, checkAdmin, addEmployee);
router.get('/users/:role', protect, getUsers);
router.get('/verify-token', protect, verifyToken);

module.exports = router;
```

Figure 2



```javascript
const jwt = require('jsonwebtoken');
const { getCompanyModel } = require('../utils/dbManager');
const UserSchema = require('../models/User');
const ErrorResponse = require('../utils/errorResponse');
const config = require('../config/default');

// Protect routes
const protect = async (req, res, next) => {
  let token;

  // Check for token in auth header
  if (req.headers.authorization && req.headers.authorization.startsWith('Bearer')) {
    // Set token from Bearer token
    token = req.headers.authorization.split(' ')[1];
  }

  // Check if token exists
  if (!token) {
    return next(new ErrorResponse('Not authorized to access this route', 401));
  }

  try {
    // Verify token
    const decoded = jwt.verify(token, process.env.JWT_SECRET);

    // Get company name from token
    const companyName = decoded.companyName;

    // Set company name on request object
```

Figure 3



```javascript
const { getCompanyModel, companyDBExists, createCompanyDB } = require('../utils/dbManager');
const UserSchema = require('../models/User');
const ErrorResponse = require('../utils/errorResponse');

// @desc    Register a user
// @route   POST /api/auth/register
// @access  Public
exports.register = async (req, res, next) => {
  try {
    const { firstName, lastName, email, password, companyName } = req.body;

    // Check if company exists
    const companyExists = await companyDBExists(companyName);

    // If company doesn't exist, create it
    if (!companyExists) {
      await createCompanyDB(companyName);
    }

    // Get User model for this company
    const User = await getCompanyModel(companyName, 'User', UserSchema);

    // Check if email already exists
    const existingUser = await User.findOne({ email });

    if (existingUser) {
      return next(new ErrorResponse('Email already in use', 400));
    }

```

Figure 4

Output :

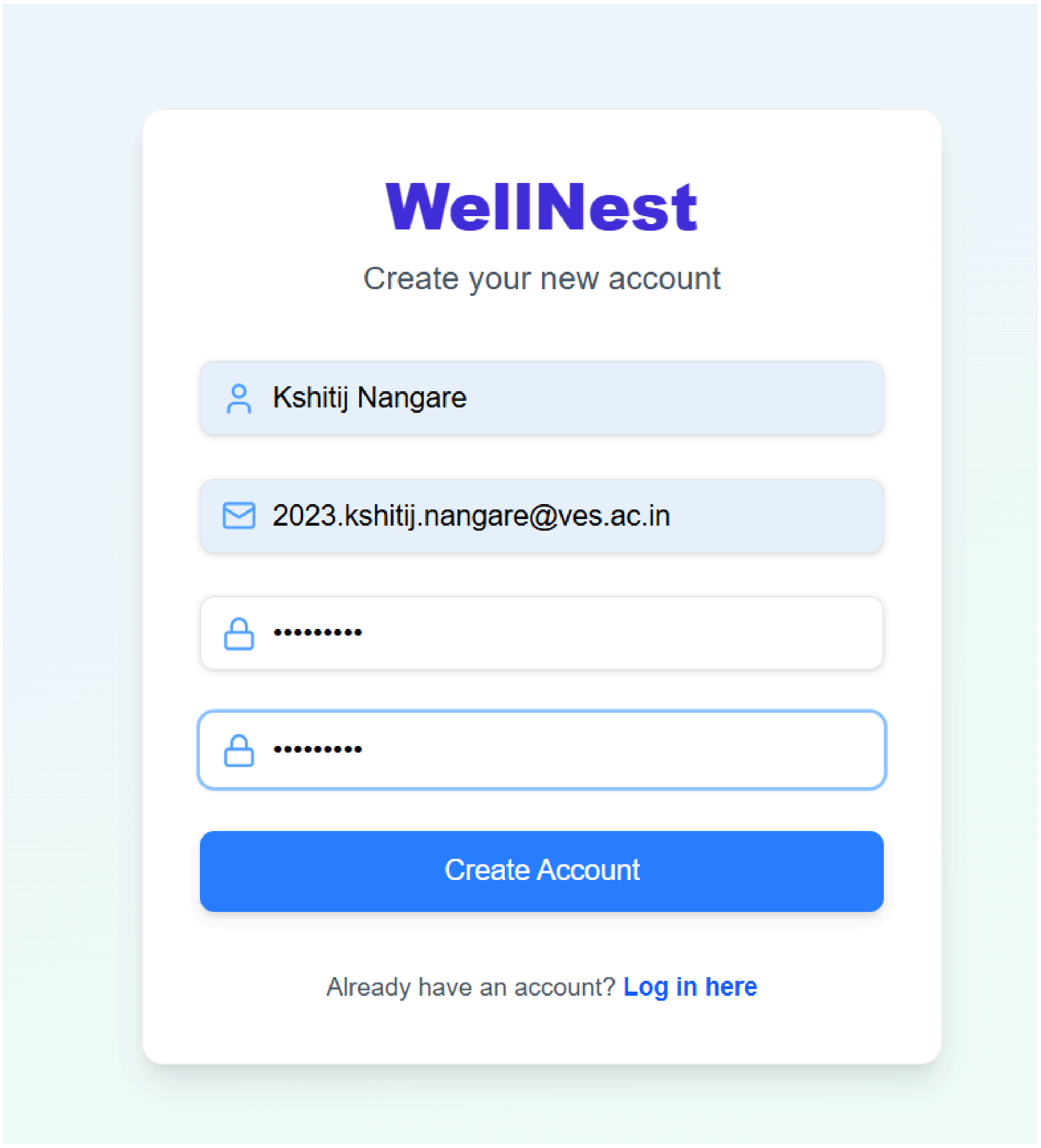

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Figure 5

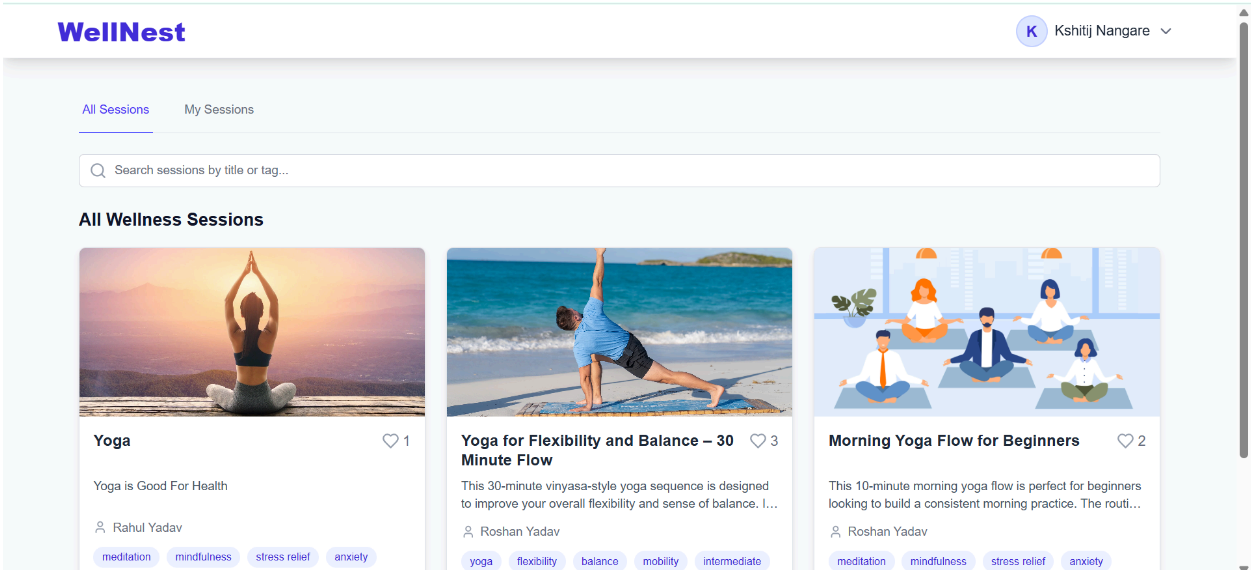

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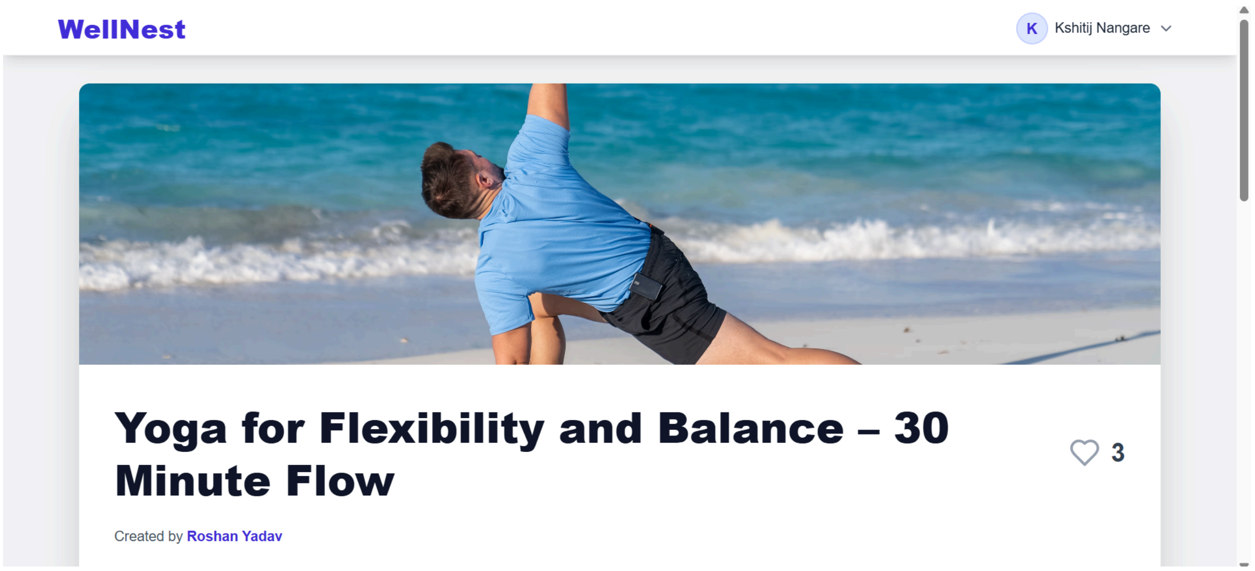
Figure 6



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Created by Roshan Yadav

Figure 7