

Darbo skelbimų portalas

Sprendžiamo uždavinio aprašymas:

Šiuolaikinėje darbo rinkoje egzistuoja daugybė darbo skelbimų svetainių, tačiau daugelis jų yra sudėtingos naudoti arba nepateikia galimybės efektyviai filtruoti skelbimus pagal kategorijas. Taip pat trūksta platformų, kuriose naudotojai galėtų diskutuoti ir keistis nuomonėmis apie darbo pasiūlymus.

Sistemos paskirtis:

Sukurti patogią ir intuityvią platformą, leidžiančią naudotojams:

- Peržiūrėti darbo skelbimus pagal tam tikras kategorijas.
- Skaityti ir pridėti komentarus prie konkrečių darbo skelbimų.
- Talpinti darbo skelbimus ir redaguoti juos.

Sistema bus skirta trijų tipų naudotojams: svečiams, registruotiems naudotojams ir administratoriams, suteikiant kiekvienai rolei atitinkamas funkcijas ir teises.

Funkciniai reikalavimai:

1. Svečias:

- o Gali peržiūrėti skelbimų kategorijas ir sąrašus.
- o Gali skaityti komentarus prie skelbimų.
- o Neturi galimybės pridėti komentarų ar skelbimų.

2. Registruotas naudotojas:

- o Visos svečio teisės.
- o Gali registruotis ir prisijungti prie sistemos.
- o Gali pridėti komentarus prie darbo skelbimų.
- o Gali talpinti ir redaguoti savo darbo skelbimus.
- o Gali redaguoti arba trinti savo komentarus.

3. Administratorius:

- o Visos registruoto naudotojo teisės.
- o Gali pridėti, redaguoti ir trinti darbo skelbimus, įskaitant kitų naudotojų skelbimus.
- o Gali kurti ir tvarkyti skelbimų kategorijas.
- o Gali moderuoti komentarus: redaguoti arba trinti netinkamus komentarus.

Pasirinktų technologijų aprašymas:

- Front-end:
 - o React.js: moderniai ir dinamiškai naudotojo sąsajai kurti.
- Back-end:
 - o Node.js su Express.js: serverio pusės logikai ir API kūrimui.
 - o Duomenų bazė MongoDB: darbo skelbimų, naudotojų ir komentarų duomenų saugojimui.
- Versijų kontrolė:
 - o GitHub: kodo saugyklai ir projektų valdymui.

OpenAPI specifikacija:

openapi: 3.0.0

info:

title: Job Portal API

description: API to manage users, jobs, categories, and comments.

version: 1.0.0

servers:

- url: http://localhost:5000

paths:

/users:

post:

summary: Register a new user

operationId: registerUser

requestBody:

description: User data to register

required: true

content:

application/json:

schema:

type: object

required:

- name

- email

- password

properties:

name:

type: string

example: John Doe

email:

type: string

format: email

example: johndoe@example.com

password:

type: string

minLength: 7

example: password123

responses:

'201':

description: User registered successfully

content:

application/json:

schema:

type: object

properties:

_id:

type: string

name:

type: string

email:

type: string

role:

type: string

'422':

description: Password too short

'400':

description: Bad request

/users/{id}:

get:

summary: Get a user by ID

operationId: getUserById

parameters:

- name: id

in: path

required: true
schema:
 type: string
responses:
 '200':
 description: User information
 content:
 application/json:
 schema:
 type: object
 properties:
 _id:
 type: string
 name:
 type: string
 email:
 type: string
 role:
 type: string
 '404':
 description: User not found

put:
 summary: Update user information
 operationId: updateUser
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: string
 requestBody:
 description: Updated user data
 required: true
 content:
 application/json:
 schema:
 type: object
 properties:
 name:
 type: string

example: John Doe
email:
type: string
example: johndoe@example.com

responses:

'200':
description: User updated successfully
content:
application/json:
schema:
type: object
'404':
description: User not found

/categories:

get:

summary: Get all categories
operationId: getAllCategories

responses:

'200':
description: List of categories
content:
application/json:
schema:
type: array
items:
type: object
properties:
_id:
type: string
name:
type: string

post:

summary: Create a new category
operationId: createCategory
requestBody:
description: Category data to create
required: true
content:
application/json:

schema:
 type: object
 required:
 - name
 properties:
 name:
 type: string
 example: IT
responses:
 '201':
 description: Category created successfully
 content:
 application/json:
 schema:
 type: object
 '400':
 description: Bad request

/categories/{id}:

put:
 summary: Update a category
 operationId: updateCategory
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: string
 requestBody:
 description: Updated category data
 required: true
 content:
 application/json:
 schema:
 type: object
 properties:
 name:
 type: string
 example: New Category Name
 responses:
 '200':

description: Category updated successfully

content:

application/json:

schema:

type: object

'404':

description: Category not found

delete:

summary: Delete a category by ID

operationId: deleteCategory

parameters:

- name: id

in: path

required: true

schema:

type: string

responses:

'204':

description: Category deleted successfully

'404':

description: Category not found

/categories/{id}/jobs:

get:

summary: Get jobs by category

operationId: getJobsByCategory

parameters:

- name: id

in: path

required: true

schema:

type: string

responses:

'200':

description: List of jobs by category

content:

application/json:

schema:

type: array

items:

```
  type: object
  properties:
    _id:
      type: string
    title:
      type: string
    description:
      type: string
    categoryId:
      type: string
  '404':
    description: Category not found
```

/jobs:

get:

summary: Get all jobs

operationId: getAllJobs

responses:

'200':

description: List of jobs

content:

application/json:

schema:

type: array

items:

type: object

properties:

_id:

type: string

title:

type: string

description:

type: string

categoryId:

type: string

userId:

type: string

post:

summary: Create a new job

operationId: createJob

requestBody:
description: Job data to create
required: true
content:
application/json:
schema:
type: object
required:
- title
- description
- categoryId
- userId
properties:
title:
type: string
example: Senior Software Engineer
description:
type: string
example: Looking for a senior software engineer.
categoryId:
type: string
example: 60da04c0b1a627001ce8d6fa
userId:
type: string
example: 60d9f8c7f1b3d45b5c0567e5

responses:
'201':
description: Job created successfully
content:
application/json:
schema:
type: object
'400':
description: Bad request

/jobs/{id}:
get:
summary: Get a job by ID
operationId: getJobById
parameters:
- name: id

in: path
required: true
schema:
 type: string
responses:
 '200':
 description: Job information
 content:
 application/json:
 schema:
 type: object
 '404':
 description: Job not found

put:
summary: Update a job by ID
operationId: updateJob
parameters:
 - name: id
 in: path
 required: true
 schema:
 type: string
requestBody:
 description: Updated job data
 required: true
 content:
 application/json:
 schema:
 type: object
 properties:
 title:
 type: string
 example: Senior Developer
 description:
 type: string
 example: Updated job description.
responses:
 '200':
 description: Job updated successfully
 content:

application/json:
 schema:
 type: object
'404':
 description: Job not found

delete:
 summary: Delete a job by ID
 operationId: deleteJob
 parameters:
 - name: id
 in: path
 required: true
 schema:
 type: string
 responses:
 '204':
 description: Job deleted successfully
 '404':
 description: Job not found

/jobs/{jobId}/comments:
 get:
 summary: Get comments for a job
 operationId: getCommentsForJob
 parameters:
 - name: jobId
 in: path
 required: true
 schema:
 type: string
 responses:
 '200':
 description: List of comments
 content:
 application/json:
 schema:
 type: array
 items:
 type: object
 properties:

_id:
 type: string
 content:
 type: string
 jobId:
 type: string
 userId:
 type: string

post:

summary: Add a comment to a job

operationId: addCommentToJob

parameters:

- name: jobId
 in: path
 required: true
 schema:
 type: string

requestBody:

description: Comment data to add

required: true

content:

application/json:

schema:

 type: object

 required:

 - content
 - userId

 properties:

 content:

 type: string

 example: This job looks interesting.

 userId:

 type: string

 example: 60d9f8c7f1b3d45b5c0567e5

responses:

'201':

description: Comment added successfully

content:

application/json:

schema:

type: object

/comments/{id}:

get:

summary: Get a comment by ID

operationId: getCommentById

parameters:

- name: id

in: path

required: true

schema:

type: string

responses:

'200':

description: Comment information

content:

application/json:

schema:

type: object

'404':

description: Comment not found

put:

summary: Update a comment by ID

operationId: updateComment

parameters:

- name: id

in: path

required: true

schema:

type: string

requestBody:

description: Updated comment data

required: true

content:

application/json:

schema:

type: object

properties:

content:

type: string

example: Updated comment content

responses:

'200':

description: Comment updated successfully

content:

application/json:

schema:

type: object

'404':

description: Comment not found

delete:

summary: Delete a comment by ID

operationId: deleteComment

parameters:

- name: id

in: path

required: true

schema:

type: string

responses:

'204':

description: Comment deleted successfully

'404':

description: Comment not found