Coursework Submission 2
Server Side Review

July 2018

Contents

1 Components

The server provides a set of API endpoints for the the client application to interact with the database. The server is written using ExpressJS framework.

1.1 Upload Medical Certificate

1.1.1 Method

POST

1.1.2 Endpoint

http://SERVER/upload/mc

1.1.3 Description

This endpoint accepts a multipart-formdata and saves the file under a random generated filename. The response json object contains the filename.

1.2 Login

1.2.1 Method

GET

1.2.2 Endpoint

http://SERVER/login

1.2.3 Description

This endpoint authenticates the user using the credentials stored in the database. The response json object contains the employee id of the user.

1.3 Get Employee Details By Id

1.3.1 Method

GET

1.3.2 Endpoint

http://SERVER/employee/:id

1.3.3 Description

This endpoint returns a json object with all the details of the employee with given id.

1.4 Get Employee Details By Query Parameters

1.4.1 Method

GET

1.4.2 Endpoint

http://SERVER/employee?first_name=&last_name=&status=&designation=

1.4.3 Description

This endpoint returns a json object with all the details of the employees matching the given query parameters. The parameters are optional.

1.5 Employee Role

1.5.1 Method

GET

1.5.2 Endpoint

http://SERVER/employee/role/:id

1.5.3 Description

This endpoint returns a json object with the role of the employee with given id. Possible values are 'supervisor' and 'employee'.

1.6 Tasks Assigned To Employee

1.6.1 Method

GET

1.6.2 Endpoint

http://SERVER/employee/tasks/:id

1.6.3 Description

This endpoint returns a json object with the list of tasks assigned to the employee with given id.

1.7 Leaves By Employee Id

1.7.1 Method

GET

1.7.2 Endpoint

http://SERVER/employee/leaves/:id?status=&notstatus=

1.7.3 Description

This endpoint returns a json object with the list of leaves taken by the employee with given id. The list by default contains both acknowledged and pending leaves. This can be further filtered using the status and notstatus optional query parameters.

1.8 Leaves By Supervisor Id

1.8.1 Method

GET

1.8.2 Endpoint

http://SERVER/supervisor/leaves/:id?status=&notstatus=

1.8.3 Description

This endpoint returns a json object with the list of pending leave applications from the reportees of the employee with given id. The list by default contains both acknowledged and pending leaves. This can be further filtered using the status and notstatus optional query parameters.

1.9 Create Medical Leave

1.9.1 Method

POST

1.9.2 Endpoint

http://SERVER/medicalleave/inform

1.9.3 Description

This endpoint accepts a json object with the leave details and create a new entry in the 'medical_leaves' table.

1.10 Get Medical Leave By Id

1.10.1 Method

GET

1.10.2 Endpoint

http://SERVER/medicalleave/:id

1.10.3 Description

This endpoint returns a json object with all the details of the medical leave with given id.

1.11 Update Medical Leave By Id

1.11.1 Method

PUT

1.11.2 Endpoint

http://SERVER/medicalleave/:id

1.11.3 Description

This endpoint accepts a json object with leave details and update the existing leave with the given id.

1.12 Get Clinic Details

1.12.1 Method

GET

1.12.2 Endpoint

http://SERVER/clinics/:id

1.12.3 Description

This endpoint returns a json object with the details of the clinic with the given id. If the value of the id is 'all' an array of all the clinics details object is returned instead.

2 Server Side Components Completed

No	METHOD	ENDPOINT	Status
1	POST	http://SERVER/upload/mc	Completed
2	GET	http://SERVER/login	Pending
3	GET	http://SERVER/employee/:id	Completed
4	GET	http://SERVER/employee	Pending
5	GET	http://SERVER/employee/role/:id	Completed
6	GET	http://SERVER/employee/tasks/:id	Completed
7	GET	http://SERVER/employee/leaves/:id	Pending
8	GET	http://SERVER/supervisor/leaves/:id	Pending
9	POST	http://SERVER/medicalleave/inform	Pending
10	GET	http://SERVER/medicalleave/:id	Completed
11	PUT	http://SERVER/medicalleave/:id	Pending
12	GET	http://SERVER/clinics/:id	Completed

3 Client Side Components Completed

No	Functionality	Status
1	Inform sick leave	HTML form completed
2	Upload MC and change particulars like number of days	HTML form completed
3	View own leave history	HTML and AJAX completed
4	View the list of company approved clinics	HTML and AJAX completed
5	View leaves informed by employees for the day	HTML and AJAX completed
6	View details of the leave application	HTML and AJAX completed
7	Approve or Deny leave application	HTML and AJAX completed
8	Search leave history of employees	HTML completed

4 Changes To Initial Design

'Leave Request – Approve/Reject' workflow is replaced with 'Leave Inform – Acknowledge'. Since the portal only manages medical leave applications the latter workflow makes more sense as medical leaves are usually not rejected. The 'Approve' and 'Reject' buttons in the form is replaced with a single 'Acknowledge' button.

The search option in the 'Team Info' page (available to supervisors) is re-coded to accept employee name instead of employee id. It is more convenient and user friendly to remember the names compared to employee id.