System Requirements Specification

Index

For

My Time Away

Version 1.0

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MY TIME AWAY System Requirements Specification

You need to consume APIs exposed by Backend application in Angular to make application work as FULLSTACK

BACKEND-SPRING BOOT RESTFUL APPLICATION

1 Project Abstract

My Time Away is a FullStack Application with a backend implemented using Spring Boot with a MySQL database and a frontend developed using Angular. It enables users to manage various aspects and streamline the process of managing employee leaves within an organization. The system facilitates efficient management of employee leave requests and approvals, ensuring proper allocation of resources and smooth workflow management.

Following is the requirement specifications:

	My Time Away
Modules	
1	MyTimeAway
Event Module	
Functionalities	
1	Create an Leave
2	Update the existing Leave details
3	Get the Leave by Id
4	Get all Leaves
5	Delete a Leave
6 Search for Leave by Id, Name,and Total Days	
7	Cancel a Leave by Id
8	Approve a Leave by Id
9	Reject Leave request by Id

2 ASSUMPTIONS, DEPENDENCIES, RISKS / CONSTRAINTS

2.1 LEAVE CONSTRAINTS

- When fetching a Leave by ID, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave with Id " + id + " not found!".
- When updating a Leave, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave with Id " + id + " not found!".
- When removing a Leave, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave application not found".
- When canceling a Leave, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave with Id - " + id + " not found!".
- When approving a Leave, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave with Id - " + id + " not found!".
- When rejecting a Leave, if the leave ID does not exist, the operation should throw ApplicationNotFoundException with message "Leave with Id - " + id + " not found!".

Common Constraints

- For all rest endpoints receiving @RequestBody, validation check must be done and must throw custom exception if data is invalid
- All the business validations must be implemented in dto classes only.
- All the database operations must be implemented on entity object only
- Do not change, add, remove any existing methods in service layer
- In Repository interfaces, custom methods can be added as per requirements.
- All RestEndpoint methods and Exception Handlers must return data wrapped in ResponseEntity

3 BUSINESS VALIDATIONS

- Employee id should not be null.
- Employee name should not be null.
- Employee phones should not be null.
- Employee email should not be null.
- Manager email should not be null.
- FromDate should not be null.
- ToDate should not be null.
- TotalDay should not be null and must be positive.
- Reason should not be null.

4 DATABASE OPERATIONS

4.1 EmployeeLeave Entity

- EmployeeLeave class should be bound to a table named employee_leave.
- id should be the **primary key**, generated with **IDENTITY**, mapped to column id.
- employeeId should be **non-nullable**, mapped to column **employee_id**.
- employeeName should be **non-nullable**, mapped to column **employee_name**.
- employeePhone should be non-nullable, mapped to column employee_phone.
- employeeEmail should be **non-nullable**, mapped to column **employee_email**.
- managerEmail should be **non-nullable**, mapped to column **manager_email**.
- fromDate should be **non-nullable**, mapped to column **from_date**, and should use the annotation **Temporal** with **TemporalType.DATE**.
- toDate should be **non-nullable**, mapped to column **to_date**, and should use the annotation **Temporal** with **TemporalType.DATE**.
- totalDays should be **non-nullable**, mapped to column **total_days**, and should have the validation annotation **Positive** with the message: "**Total days must be a positive value**".
- reason should be **non-nullable**, mapped to column **reason**.
- isProcessed should be mapped to column is_processed.
- status should be mapped to column status

5 REST ENDPOINTS

Rest End-points to be exposed in the controller along with method details for the same to be created. Please note, that these all are required to be implemented.

5.1 EMPLOYEELEAVE CONTROLLER

URL E	xposed	Purpose
1. /api/leaves		Fetches all the leaves
Http Method	GET	
Parameter	-	
Return	ResponseEntity <list<e< td=""><td></td></list<e<>	
	mployeeLeaveDTO>>	
2. /api/leaves		Add a new leave
Http Method	POST	
Parameter 1	EmployeeLeaveDTO	
Return	ResponseEntity <emplo< td=""><td></td></emplo<>	
	yeeLeaveDTO>	
3. /api/leaves/{id}		Delete leaves with given leave id

Http Method	DELETE	
Parameter 1	Long (id)	
Return	-	
4. /api/leaves/{id}		Fetches the leave with the given id
Http Method	GET	
Parameter 1	Long (id)	
Return	ResponseEntity <emplo< td=""><td></td></emplo<>	
	yeeLeaveDTO>	
5. /api/leaves/{id}		Updates existing leave
Http Method	PUT	
Parameter 1	Long (id)	
Parameter 2	EmployeeLeaveDTO	
Return	ResponseEntity <emplo< td=""><td></td></emplo<>	
	yeeLeaveDTO>	

· ·	:h?employeeId={id}&employe otalDays={totalDays}	Fetches the leave with the given id, name, total days
Http Method	GET	
Parameter 1	String (id)	
Parameter 2	String (name)	
Parameter 3	Int (totaldays)	
Return	ResponseEntity <list<e mployeeleavedto="">></list<e>	

7. /api/leaves/{id}/cancel		Cancel the leave request
Http Method	PUT	
Parameter 1	Long (id)	
Return	EmployeeLeaveDTO	
8. /api/leaves/{id}/approve		Approve the leave request
Http Method	PUT	
Parameter 1	Long (id)	
Return	EmployeeLeaveDTO	

Ī	9. /api/leaves/{id}/re	ject	Reject the leave request
	Http Method	PUT	
	Parameter 1	Long (id)	

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6 TEMPLATE CODE STRUCTURE

6.1 PACKAGE: COM.MYTIMEAWAY

Resources

MyTimeAwayApplication	This is the Spring Boot	Already
(Class)	starter class of the	Implemented
(Class)	application.	

6.2 PACKAGE: COM.MYTIMEAWAY.REPOSITORY

Resources

Class/Interface	Description	Status
EmployeeLeaveRepository	Repository interface exposing	Partially implemented.
(interface)	 CRUD functionality for EmployeeLeave Entity. You can go ahead and add any custom methods as per requirements. 	

6.3 PACKAGE: COM.MYTIMEAWAY.SERVICE

Resources

Class/Interface	Description	Status
EmployeeLeaveService (interface)	 Interface to expose method signatures for employee leave related functionality. Do not modify, add or delete any method. 	

6.4 PACKAGE: COM.MYTIMEAWAY.SERVICE.IMPL

Resources

Class/Interface	Description Status
EmployeeLeaveServiceImpl	Implements To be implemented.
(class)	EmployeeLeaveService.
	Contains template method implementation.
	Need to provide
	implementation for
	employee leave related
	functionalities.
	Do not modify, add or delete
	any method signature

6.5 PACKAGE: COM.MYTIMEAWAY.CONTROLLER

Resources

Class/Interface	Description	Status
EmployeeLeaveController	• Controller class to expose all	To be implemented
(Class)	rest-endpoints for employee	
	leave related activities.	
	 May also contain local 	
	exception handler methods	

6.6 PACKAGE: COM.MYTIMEAWAY.DTO

Resources

Class/Interface	Class/Interface Description	
EmployeeLeaveDTO (Class)	Use appropriate annotations from the	Partially implemented.
	Java Bean Validation API for validating	
	attributes of this class.	

6.7 PACKAGE: COM.MYTIMEAWAY.ENTITY

Resources

Class/Interface	Description	Status
EmployeeLeave (Class)	• This class is partially Partially	rtially implemented.
	implemented.	
	Annotate this class with proper	
	annotation to declare it as an	
	entity class with employeeld as	
	primary key.	
	• Map this class with an	
	employeeleave table.	
	Generate the employeeld using	
	the IDENTITY strategy	

6.8 PACKAGE: COM.MYTIMEAWAY.EXCEPTION

Resources

Class/Interface	Description	Status
ApplicationNotFoundException	• Custom Exception to be	Already implemented.
(Class)	thrown when trying to	
	fetch or delete the leave	
	info which does not	
	exist.	
	• Need to create Exception	
	Handler for same wherever needed (local or global)	
CustomExceptionHandler	 RestControllerAdvice 	Already implemented.
(Class)	Class for defining global	
	exception handlers.	
	 Contains Exception 	
	Handler for	
	InvalidDataException	
	class.	

Use this as a reference
for creating exception
handlers for other
custom exception
classes.

7 METHOD DESCRIPTIONS

1. EmployeeLeaveServiceImpl Class - Method Descriptions

Method	Task	Implementation Details
getAllLeaves()	Fetch all leave records	 Uses `leaveRepository.findAll()` to retrieve all leave entities Maps each entity to DTO using `convertToDTO` Returns the list of mapped DTOs
getLeaveById()	Fetch a leave by ID	 Uses `leaveRepository.findById(id)` Throws `ApplicationNotFoundException` if a leave is not found with the message: Leave with Id - {id} not found! Maps entity to DTO using `modelMapper` Returns the mapped DTO
createLeave()	Create a new leave entry	- Converts DTO to entity using `convertToEntity` - Saves entity using `leaveRepository.save(leave)` - Returns the saved entity as DTO
updateLeaveByI d()	Update existing leave	 Retrieves leave using `leaveRepository.findById(id)` Throws `ApplicationNotFoundException` if not found with message: Leave with Id - {id} not found! Updates fields using `modelMapper.map` Saves updated entity and returns as DTO
<pre>deleteLeaveByI d()</pre>	Delete leave by ID	- Checks if leave exists using `leaveRepository.findById(id)` - If found, deletes the entity using `leaveRepository.delete()` - If not found, throws `ApplicationNotFoundException` with message: Leave application not found - Returns boolean true if successful
searchLeaves()	Search leaves by parameters	 Retrieves all leave records Applies filtering based on employeeld, name, and totalDays Maps filtered results to DTOs using `convertToDTO` Returns filtered list of DTOs

cancelLeaveReq uest()	Cancel a leave request	- Calls `changeLeaveStatus(id, "CANCELED")` - Updates status to `CANCELED` and `isProcessed` to true - Saves and returns updated DTO
approveLeaveRe quest()	Approve a leave request	- Calls `changeLeaveStatus(id, "APPROVED")` - Updates status to `APPROVED` and `isProcessed` to true - Saves and returns updated DTO
rejectLeaveReq uest()	Reject a leave request	- Calls `changeLeaveStatus(id, "REJECTED")` - Updates status to `REJECTED` and `isProcessed` to true - Saves and returns updated DTO
changeLeaveSta tus()	Helper to change leave status	 Finds leave by ID or throws `ApplicationNotFoundException` with message: Leave with Id - {id} not found! Updates `status` and `isProcessed` fields Saves and returns updated DTO
convertToDTO()	Convert Entity to DTO	- Uses `BeanUtils.copyProperties` to map properties from entity to DTO - Returns the mapped DTO
<pre>convertToEntit y()</pre>	Convert DTO to Entity	- Uses `BeanUtils.copyProperties` to map properties from DTO to entity - Returns the mapped entity

2. EmployeeLeaveController Class - Method Descriptions

Method	Task	Implementation Details
getAllLeaves	Fetch all leave applications	- Calls `leaveService.getAllLeaves()` to fetch all leave records - Wraps result in `ResponseEntity` with `HttpStatus.OK` - Returns list of leave DTOs
getLeaveById	Fetch leave by ID	- Calls `leaveService.getLeaveById(id)` to fetch a leave record by its ID - Checks if the leave object is not null - Returns `ResponseEntity` with `HttpStatus.OK` if found, otherwise `HttpStatus.NOT_FOUND`
createLeave	Create new leave application	- Accepts a `EmployeeLeaveDTO` from request body - Calls `leaveService.createLeave(leaveDTO)` to save the new leave - Returns the created leave DTO wrapped in `ResponseEntity` with `HttpStatus.CREATED`

updateLeaveByI d	Update existing leave application	- Accepts a leave ID and a DTO from request body - Calls `leaveService.updateLeaveById(id, leaveDTO)` to update the record - Returns updated DTO with `HttpStatus.OK` if successful, else `HttpStatus.NOT_FOUND`
deleteLeaveByI d	Delete leave application by ID	- Calls `leaveService.deleteLeaveById(id)` to delete the leave entry - Returns `ResponseEntity` with `HttpStatus.NO_CONTENT`
searchLeaves	Search leaves by filters	- Accepts optional query params: `employeeld`, `employeeName`, and `totalDays` - Calls `leaveService.searchLeaves()` to filter based on the criteria - Returns filtered list of leave DTOs with `HttpStatus.OK`
cancelLeaveReq uest	Cancel leave request	- Calls `leaveService.cancelLeaveRequest(id)` to set status to CANCELED - Returns the updated DTO with `HttpStatus.OK` if successful, else `HttpStatus.NOT_FOUND`
approveLeaveRe quest	Approve leave request	- Calls `leaveService.approveLeaveRequest(id)` to set status to APPROVED - Returns the updated DTO with `HttpStatus.OK` if successful, else `HttpStatus.NOT_FOUND`
rejectLeaveReq uest	Reject leave request	- Calls `leaveService.rejectLeaveRequest(id)` to set status to REJECTED - Returns the updated DTO with `HttpStatus.OK` if successful, else `HttpStatus.NOT_FOUND`

8 Considerations

- A. There is no roles in this application
- B. You can perform the following possible action

FRONTEND-ANGULAR SPA

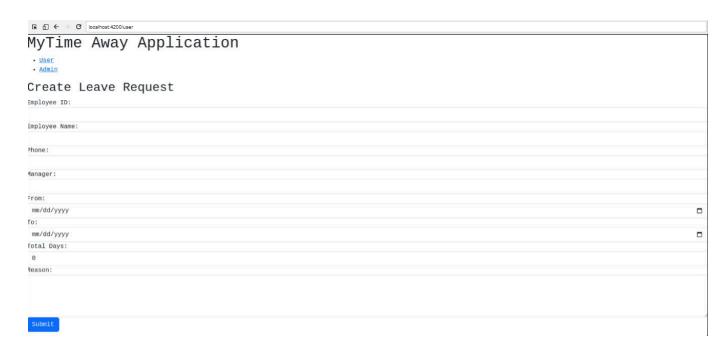
1 PROBLEM STATEMENT

My Time Away is SPA (Single Page Application), it enables users to manage various aspects and streamline the process of managing employee leaves within an organization like it allows to add leave, update leave, delete leave, get leave by id, get all leave, search leave by id, name and total days, cancel leave request, approve leave request and reject leave request.

2 PROPOSED MY TIME AWAY WIREFRAME

UI needs improvisation and modification as per given use case and to make test cases passed.

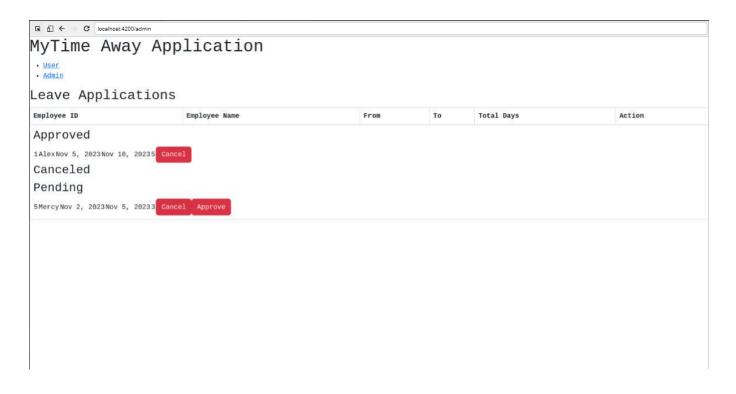
2.1 HOME PAGE



2.2 USER PAGE



2.3 ADMIN PAGE



3 BUSINESS-REQUIREMENT:

As an application developer, develop the Social Networking App (Single Page App) with below guidelines:

User	User Story Name	User Story
Story #		
US_01	Home Page	As a user I should be able to visit the Home page as the default page.
		App Shell — app.component.html
		HTML Structure
		 Top-level <h1> heading: Text must be "MyTime Away Application." </h1> Header with navigation (<header><nav>): Two list items with router links:</nav></header>
		Dynamic Behavior
		 Clicking User loads the UserComponent view inside the outlet. Clicking Admin loads the AdminComponent view inside the outlet. Heading and header remain static while routed content changes.
		Routing — app-routing.module.ts

Purpose

Define top-level routes and fallbacks for the app.

Routes

- /user → UserComponent
- /admin → AdminComponent
- **Default redirect:** empty path ('') redirects to **/user**
- Wildcard redirect: any unknown path (**) redirects to /user.

Functions & Responsibilities

- Configure root RouterModule: provide the routes above.
- **Export RouterModule:** make routing available to the app module.

Root Component — app.component.ts

Purpose

- Acts as the application shell.
- Supplies the title and hosts the header + router-outlet.

State

• title: set to "MyTime Away Application."

Responsibilities

- Bind the title to the heading in the template.
- Provide a static frame around routed content (no extra logic required).

US_01	User Page	As a user I should be able to see the homepage and perform all operations:
		Acceptance criteria:
		User Component — user.component.html
		HTML Structure
		Heading
		O Use an h2 heading with text: Create Leave Request .
		Form Container
		A single form element configured to submit via a
		component method.
		Add a template reference for validation state (e.g., #leaveForm="ngForm").
		 Mark the form as novalidate to rely on Angular
		validations.
		Form Fields (each wrapped in a form-group)
		○ Employee ID
		■ Text input bound to the model for employee ID.
		○ Employee Name
		■ Text input bound to the model for employee
		name.
		 ○ Phone ■ Text input bound to the model for employee
		phone.
		■ Required.
		■ Validation message displayed only when the
		control is invalid and touched/dirty: ■ "Phone is required."
		Manager
		■ Text input bound to the model for manager
		email.
		Required.Validation message displayed when invalid and
		touched/dirty:
		■ "Manager is required."
		From Detainment because to the procedul for stort data.
		Date input bound to the model for start date.Required.
		■ Validation message displayed when invalid and
		touched/dirty:
		■ "From date is required."

- To
- Date input bound to the model for end date.
- Required.
- Validation message displayed when invalid and touched/dirty:
 - "To date is required."
- Total Days
 - Number input bound to the model for total leave days.
 - Required.
 - Validation message displayed when invalid and touched/dirty:
 - "Total Days is required."
- Reason
 - Textarea bound to the model for leave reason.
 - Required.
 - Validation message displayed when invalid and touched/dirty:
 - "Reason is required."
- Submit Button
 - A single **submit** button to trigger form submission.

User Component — user.component.ts

Purpose

Handle **creation of a leave request**: build reactive form controls, hold the leave model used by the template form, submit the request to the backend, and navigate on success.

State

- **leaveForm**: Reactive FormGroup with controls for all required fields (employeeName, employeePhone, managerEmail, fromDate, toDate, totalDays, reason).
- leave: Object holding the current leave request data (id, employeeld, employeeName, employeePhone, managerEmail, fromDate, toDate, totalDays, reason, status, employeeEmail, isProcessed).

Functions & Responsibilities

- constructor(fb, leaveService, router)
 - Injects dependencies.
 - o Calls the form initializer.

		• createForm()
		 Builds the reactive form: Adds controls for: employeeName, employeePhone, managerEmail, fromDate, toDate, totalDays, reason. Applies required validators to each of the controls above. Seeds default values where provided (e.g., reason from the leave object).
		submitForm()
		 Sends the current leave object to the backend via the service. On success: navigates to the Admin route (/admin). On error: logs the error to the console with message: "Error creating leave request:" followed by the error.
		Dynamic Behavior
		 The template-driven inputs (ngModel) update the leave object as the user types. The reactive leaveForm mirrors validation requirements; error messages in the HTML are shown for required fields when touched/dirty and invalid. Submitting the form triggers the create call: Success → route changes to Admin page. Failure → error is printed in the console .
		** Kindly refer to the screenshots for any clarifications. **
US_02	Admin Page	As a admin I should be able to see the admin and perform all operations:
		Acceptance criteria:
		Admin Component — admin.component.html
		HTML Structure
		 Page Heading Use an h2 heading with the text: Leave Applications. Outer Table (container)

- A bordered table with a single header row containing these column headings (in this exact order):
 - Employee ID
 - Employee Name
 - From
 - To
 - Total Days
 - Action
- The **body** contains one full-width row (colspan="6") that groups three subsections: **Approved**, **Canceled**, and **Pending**. Each subsection has its own title and nested table.

Approved Section

- **Subheading:** use **h3** with the text **Approved**.
- A nested table to list only applications whose status is APPROVED.
- Each data row displays:
 - Employee ID
 - Employee Name
 - From (formatted as a date)
 - To (formatted as a date)
 - Total Days
 - Action column with a **Cancel** button.
- Rows for approved items should visually indicate approved status.

• Canceled Section

- Subheading: use h3 with the text Canceled.
- A nested table to list only applications whose status is REJECTED.
- Each data row displays:
 - Employee ID
 - Employee Name
 - From (formatted as a date)
 - To (formatted as a date)
 - Total Days
 - Action column.
- Rows for canceled items should visually indicate canceled/rejected status.

Pending Section

- Subheading: use h3 with the text Pending.
- A nested table to list applications whose status is empty (pending).
- Each data row displays:
 - Employee ID
 - Employee Name
 - From (formatted as a date)
 - To (formatted as a date)

- Total Days
- Action column with two buttons:
 - Cancel
 - Approve

Dynamic Behavior

- The three subsections filter the same underlying collection into Approved, Canceled, and Pending views.
- Clicking **Cancel** in Approved or Pending should trigger the cancel action for that request.
- Clicking **Approve** in Pending should trigger the approve action for that request.
- After any action, the list should refresh to reflect the latest statuses.

Admin Component — admin.component.ts

Purpose

Display all leave applications grouped by status and allow the admin to **approve** or **cancel** requests. All actions refresh the list.

State

• **leaveApplications**: array holding all leave requests fetched from the backend.

Lifecycle

- ngOnInit()
 - Loads the current list of leave requests immediately when the component initializes.

Functions & Responsibilities

- 1. fetchLeaveApplications()
 - Retrieves all leave requests from the backend.
 - On success: updates leaveApplications with the latest data.
 - On error: logs the message "Error fetching leave applications:" followed by the error.
- 2. cancelLeave(application)
 - Sends a request to cancel the specified leave

(identified by its id).

- On success: calls fetchLeaveApplications() to refresh the list.
- On error: logs the message "Error canceling leave application:" followed by the error.

3. approveLeave(application)

- Sends a request to approve the specified leave (identified by its id).
- On success: calls fetchLeaveApplications() to refresh the list.
- On error: logs the message "Error approving leave application:" followed by the error.

Dynamic Behavior

- Initial load: ngOnInit() triggers fetchLeaveApplications() to populate the table.
- Actions:
 - **Approve** (visible only in Pending): updates status on the server, then refreshes the UI.
 - Cancel (visible in Approved and Pending): updates status on the server, then refreshes the UI.
- Grouping:
 - Approved: items with status APPROVED.
 - Canceled: items with status REJECTED.
 - o **Pending**: items with an **empty** status string.

Leave Service — leave.service.ts

Purpose

Provide a single place to call the backend API for **leave applications** at http://127.0.0.1:8081/mytimeaway/api/leaves — including CRUD, search, and status actions (approve/cancel/reject).

Base

Base URL:

http://127.0.0.1:8081/mytimeaway/api/leave

^{**} Kindly refer to the screenshots for any clarifications. **

• Transport: Angular HttpClient

Functions & Responsibilities

getAllLeaves()

- Sends a **GET** request to retrieve all leave applications.
- Used in the **Admin component** to display every leave request on load or refresh.
- **Returns:** The HTTP response containing an **array of all leave objects**.

getLeaveById(id)

- Sends a **GET** request to fetch a **single leave** by its unique ID.
- Used when viewing or editing the details of one leave application.
- Returns: The HTTP response containing the leave object matching the ID.

createLeave(leave)

- Sends a **POST** request to create a **new leave** with the provided data.
- Called when a user submits the "Create Leave Request" form.
- Returns: The HTTP response containing the newly created leave object.

updateLeaveById(id, leave)

- Sends a PUT request to update an existing leave with the given ID.
- Called when editing a leave request that is already stored.
- Returns: The HTTP response containing the updated leave object.

deleteLeaveById(id)

- Sends a DELETE request to remove a leave application by ID.
- Used for deleting obsolete or unwanted leave records.
- **Returns:** The HTTP response with **void**.

searchLeaves(employeeId?, employeeName?, totalDays = 0)

- Sends a GET request with query parameters to filter leaves by:
 - o employeeId
 - employeeName

- totalDays (included only if > 0)
- Used when admins need to search/filter leave records.
- Returns: The HTTP response containing an array of filtered leave objects.

cancelLeaveRequest(id)

- Sends a **PUT** request to change a leave status to **Canceled**.
- Called when an admin clicks **Cancel** for a leave request.
- Returns: The HTTP response containing the updated leave object with canceled status.

approveLeaveRequest(id)

- Sends a **PUT** request to change a leave status to **Approved**.
- Called when an admin approves a **Pending** leave.
- Returns: The HTTP response containing the updated leave object with approved status.

rejectLeaveRequest(id)

- Sends a **PUT** request to change a leave status to **Rejected**.
- Used when an admin explicitly rejects a leave request.
- Returns: The HTTP response containing the updated leave object with rejected status.

Dynamic Behavior

- Admin views typically call getAllLeaves() on init and after approve/cancel/reject to refresh the lists.
- **Search** adds only the provided filters as query params; missing filters are **not** sent.
- Status endpoints (approve/cancel/reject) expect no body beyond {} and return the updated record so the UI can reflect the new status immediately.

^{**} Kindly refer to the screenshots for any clarifications. **

4 EXECUTION STEPS TO FOLLOW FOR BACKEND

- 1. All actions like build, compile, running application, running test cases will be through Command Terminal.
- 2. To open the command terminal the test takers need to go to the Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal.
- 3. cd into your backend project folder
- 4. To build your project use command:

mvn clean package -Dmaven.test.skip

5. To launch your application, move into the target folder (cd target). Run the following command to run the application:

java -jar <your application jar file name>

- 6. This editor Auto Saves the code.
- 7. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
- 8. To test any Restful application, the last option on the left panel of IDE, you can find ThunderClient, which is the lightweight equivalent of POSTMAN.
- 9. To test any UI based application the second last option on the left panel of IDE, you can find Browser Preview, where you can launch the application.
- 10. Default credentials for MySQL:

a. Username: root

b. Password: pass@word1

- 11. To login to mysql instance: Open new terminal and use following command:
 - a. sudo systemctl enable mysql
 - b. sudo systemctl start mysql
 - c. mysql -u root -p

The last command will ask for password which is 'pass@word1'

12. Mandatory: Before final submission run the following command:

mvn test

1 EXECUTION STEPS TO FOLLOW FOR FRONTEND

- 1. All actions like build, compile, running application, running test cases will be through Command Terminal.
- To open the command terminal the test takers, need to go to
 Application menu (Three horizontal lines at left top) -> Terminal ->New Terminal.
- 3. This is a web-based application, to run the application on a browser, use the internal browser in the environment.
- 4. You can follow series of command to setup Angular environment once you are in your project-name folder:
 - a. npm install -> Will install all dependencies -> takes 10 to 15 min
 - b. npm run start -> To compile and deploy the project in browser. You can press
 <Ctrl> key while clicking on localhost:4200 to open project in browser -> takes 2 to
 3 min
 - c. npm run test -> to run all test cases. It is mandatory to run this command before submission of workspace -> takes 5 to 6 min