# **Grade Assignment 4 Problem & Solution SNAP**

You are required to create an Employee Management Rest API based Web application, where you will be developing CRUD (Create, Read, Update and Delete) functionality along with Sorting and some concepts of security.

Your Rest API should be secured. And should have different endpoints for different operations-

- 1. Read Employee List
- 2. Read Employee Data BY Id
- 3. Search Employee BY First Name
- 4. Sort Employee BY First Name IN ASC / DESC Order
- 5. Save a new Employee
- 6. Update an existing Employee
- 7. Delete an existing Employee
- 8. Get User Details
- 9. Get Role Details
- 10. Add a new User
- 11. Add a new Role

### **Endpoints For different Operations:**

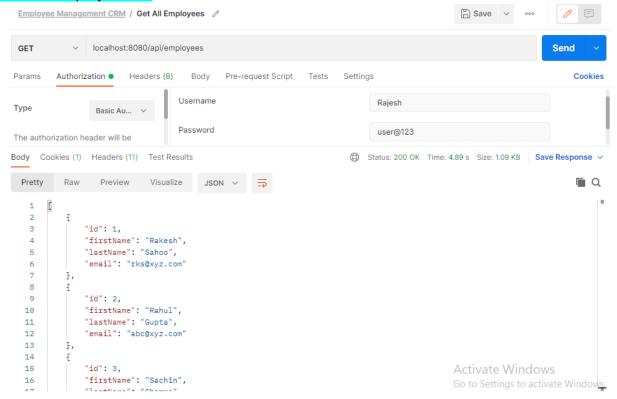
SL NO	Operation	<b>Endpoints</b>	Method	Accessed BY
1	Read Employee List	/api/employees	GET	USER,
		I and the control of the control of the D	GET	ADMIN
2	Read Employee Data	/api/employees/{employeeId}	GET	USER, ADMIN
	BY Id			
3	Search Employee BY	/api/employees/{employeeFirstName}	GET	USER,
	First Name			ADMIN
4	Sort Employee BY First	/api/employees/sort?order=(ASC/DESC)	GET	USER,
	Name IN ASC / DESC			ADMIN
	Order			
5	Save a new Employee	/api/employee	POST	ADMIN
6	Update an existing	/api/employee	PUT	ADMIN
	Employee			
7	Delete an existing	/api/employee/{employeeId}	DELETE	ADMIN
	Employee			
8	Get User Details	/api/users	GET	ADMIN
9	Get Role Details	/api/roles	GET	ADMIN
10	Add a new User	/api/add/user	POST	ADMIN
11	Add a new Role	/api/add/role	POST	ADMIN

# To Access This API: Please use these below credentials for respective roles as initial run:

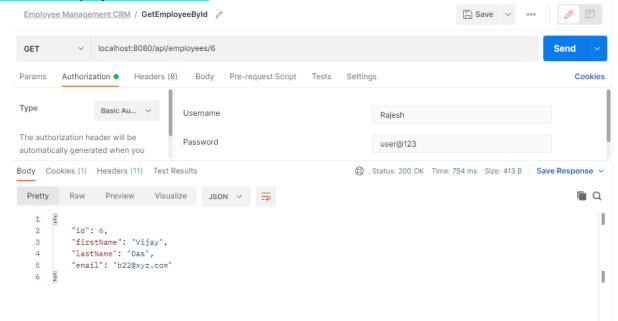
# ADMIN: [Rakesh/admin@123]
# USER: [Rajesh/user@123]

#### Operation & Snapshots:

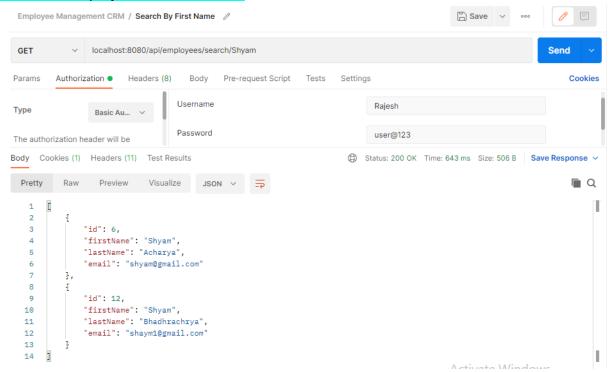
#### 1. Read Employee List



#### 2. Read Employee Data BY Id

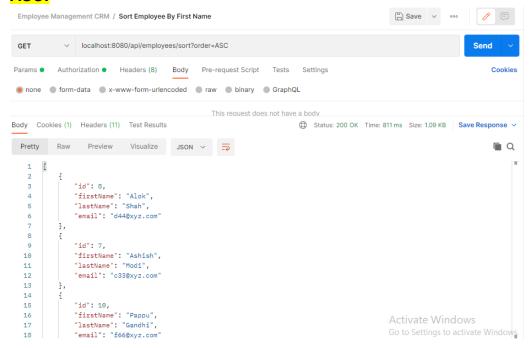


# 3. Search Employee BY First Name

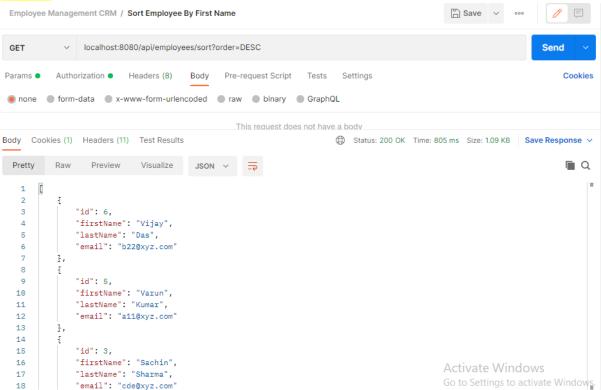


# 4. Sort Employee BY First Name IN ASC / DESC Order

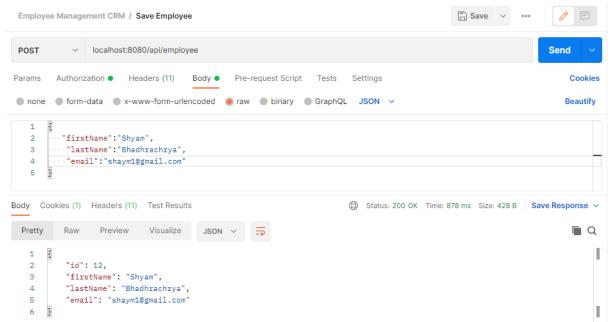
#### ASC:



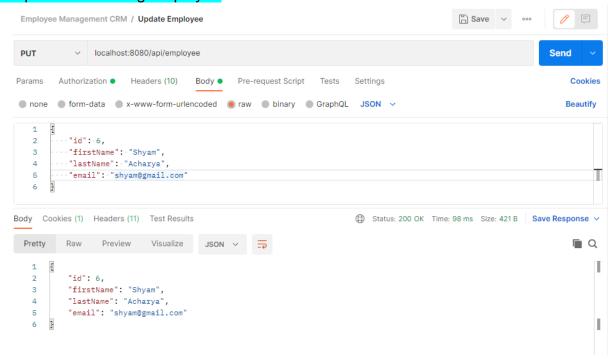




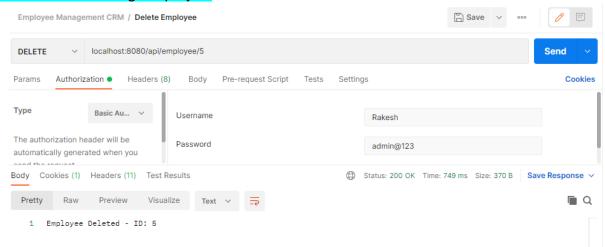
# 5. Save a new Employee



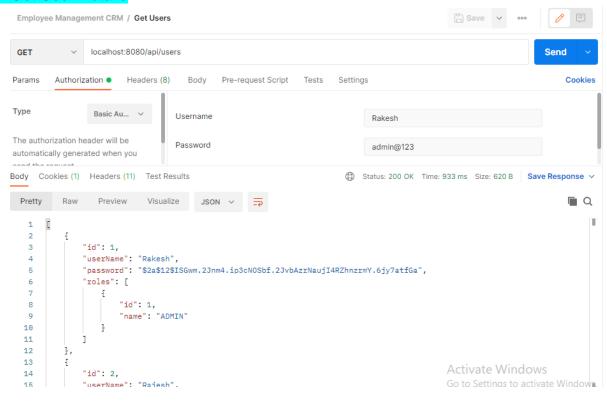
# 6. Update an existing Employee



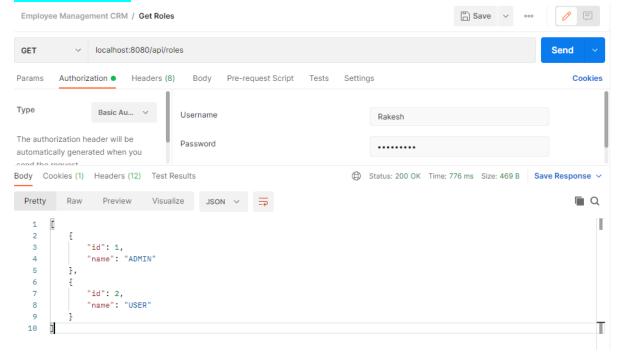
#### 7. Delete an existing Employee



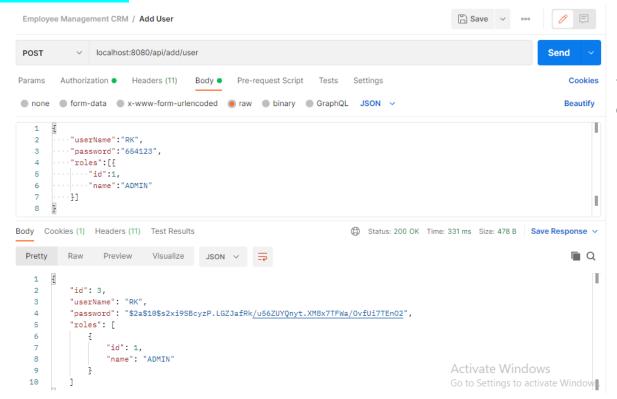
### 8. Get User Details



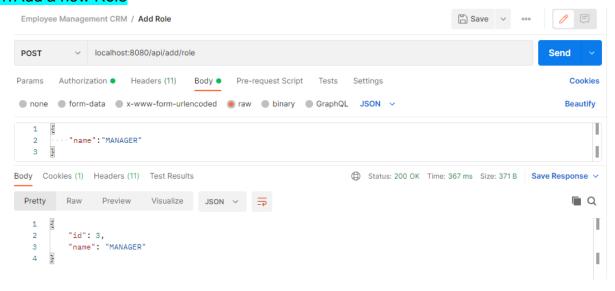
#### 9. Get Role Details



### 10. Add a new User

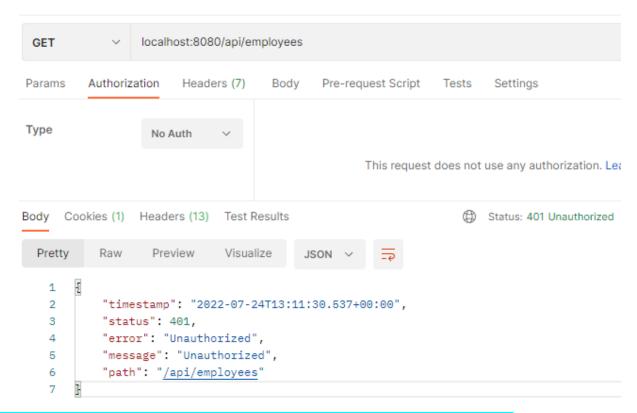


#### 11. Add a new Role



# 12. Error Snaps - For Unauthorized

Employee Management CRM / Get All Employees



# 13. Error Snaps – For 403 Forbidden [i.e. a user can't access to save an employee]

