

MongoDB data

The screenshot shows the MongoDB Compass interface. On the left, a sidebar menu includes Cluster, Overview, Data Explorer (which is selected and highlighted in green), Real Time, Cluster Metrics, Query Insights, Performance Advisor, Online Archive, Command Line Tools, Infrastructure as Code, and Search & Vector Search. The main area displays a cluster named 'Cluster0' under project 'Project 0' in organization 'Maxim's Org - 2025-1...'. The 'Data' tab is active, showing the 'employees' collection from database 'comp3123_assignment1'. The collection has 3 documents. A search bar at the top right allows for querying namespaces. Below the search bar are tabs for Find, Indexes, Schema Anti-Patterns, Aggregation, and Search Indexes. A query builder is present with a placeholder 'Type a query: { field: 'value' }'. At the bottom, there are buttons for Reset, Apply, and Options. The document details are as follows:

```
_id: ObjectId('692c28e4aaf49bde349cc6')
first_name: "Max"
last_name: "Tran"
email: "max.tran@gbc.ca"
position: "SDET"
salary: 121212
date_of_joining: 2015-12-12T00:00:00.000+00:00
department: "IT"
photo: Binary.createFromBase64('/9j/4AAQSkZJRgABAQEASABIAAD/4gi0UNDX1B5T0ZJTEUAAQEAIAIYAAAAAQwAABtbnRyUkdCIFhZnfAAAAAAAABh...', 0)
photoType: "image/jpeg"
createdAt: 2025-11-30T09:18:26.350+00:00
updatedAt: 2025-11-30T09:24:27.250+00:00
--v: 0

_id: ObjectId('692c28e4aaf49bde349cc6')
first_name: "Jane (Edited)"
last_name: "Doe (Edited)"
email: "jane.doe@gmail.com"
position: "SDET"
salary: 211212
date_of_joining: 2015-12-12T00:00:00.000+00:00
department: "IT"
photo: Binary.createFromBase64('/9j/4AAQSkZJRgABAQEASABIAAD/4gi0UNDX1B5T0ZJTEUAAQEAIAIYAAAAAQwAABtbnRyUkdCIFhZnfAAAAAAAABh...', 0)
photoType: "image/jpeg"
createdAt: 2025-11-30T10:55:10.197+00:00
updatedAt: 2025-11-30T10:55:10.197+00:00
```

REST API tests with Postman

The image displays three separate screenshots of the Postman application interface, each showing a different API request being made to a RESTful API.

Screenshot 1: DELETE Request

URL: `https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees/{eid}`

Method: `DELETE`

Authorization: Bearer Token (Token value: 1-LXZstvZjC|A2aoORpBSpPZxJl1doA)

Response status: `204 No Content`

Screenshot 2: GET Request

URL: `https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees/search?department=Engineering`

Method: `GET`

Authorization: Bearer Token (Token value: q-Y69ESS4_x|C8R-84UH-8Dl1X1RIyH)

Response status: `200 OK`

Screenshot 3: PUT Request

URL: `https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees/{eid}`

Method: `PUT`

Body: JSON (Employee details object)

Response status: `200 OK`

Detailed description: The screenshots show the Postman interface with various tabs like Docs, Params, Authorization, Headers, Body, Scripts, and Settings. The Authorization tab is selected in all three cases, showing the token input field. The Headers tab shows the Content-Type set to application/json. The Body tab shows the raw JSON payload for the PUT request. The Response tab shows the API's response status and time taken.

Assignment1 / api/v1/emp/employees/{id}

GET https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees/692c1e894aa4f49b0e349cb1

Auth Type: Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#) authorization.

Body Cookies Headers (12) Test Results

{} JSON Preview Visualize

```
1 {  
2   "status": true,  
3   "data": [  
4     {"  
5       "employee_id": "692c1e894aa4f49b0e349cb1",  
6       "first_name": "Jane",  
7       "last_name": "Doe",  
8       "email": "jane.doe@example.com",  
9       "position": "Software Engineer",  
10      "salary": 90000,  
11      "date_of_joining": "2023-08-01T00:00:00.000Z",  
12      "department": "Engineering"  
13    }  
14  ]  
15 }
```

200 OK 226 ms 763 B Save Response

Assignment1 / api/v1/emp/employees

GET https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees

Auth Type: Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about [Bearer Token](#) authorization.

Body Cookies Headers (12) Test Results

{} JSON Preview Visualize

```
1 {  
2   "status": true,  
3   "data": [  
4     {  
5       "employee_id": "692c0be21a9da958c646b5d7",  
6       "first_name": "Max",  
7       "last_name": "Tran",  
8       "email": "max.tran@gbc.ca",  
9       "position": "SWE",  
10      "salary": 12312312,  
11      "date_of_joining": "2015-12-12T00:00:00.000Z",  
12      "department": "IT",  
13    },  
14    {  
15       "employee_id": "692c1e894aa4f49b0e349cb1",  
16       "first_name": "Jane",  
17       "last_name": "Doe",  
18       "email": "jane.doe@example.com",  
19       "position": "Software Engineer",  
20       "salary": 90000,  
21       "date_of_joining": "2023-08-01T00:00:00.000Z",  
22       "department": "Engineering"  
23     }  
24   ]  
25 }
```

200 OK 187 ms 971 B Save Response

Assignment1 / api/v1/emp/employees (1)

POST https://101490785-comp3123-assignment2-back.vercel.app/api/v1/emp/employees

Auth Type: Bearer Token

Body

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {  
2   "first_name": "Jane",  
3   "last_name": "Doe",  
4   "email": "jane.doe@example.com",  
5   "position": "Software Engineer",  
6   "salary": 90000,  
7   "date_of_joining": "2023-08-01T00:00:00.000Z",  
8   "department": "Engineering"  
9 }
```

Body Cookies Headers (12) Test Results

{} JSON Preview Visualize

```
1 {  
2   "status": true,  
3   "message": "Employee created successfully.",  
4   "employee_id": "692c1e894aa4f49b0e349cb1"  
5 }
```

201 Created 312 ms 612 B Save Response

Assignment1 / /api/v1/user/login

POST https://101490785-comp3123-assignment2-back.vercel.app/api/v1/user/login

Body (9) Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "email": "chanmxim@gmail.com",
3   "password": "password123"
4 }
```

Body Cookies Headers (12) Test Results ⚡

200 OK 251 ms 766 B Save Response

{ JSON Preview Visualize }

```
1 {
2   "status": true,
3   "message": "Login successful.",
4   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJmMmZDk0NGFhNGY0OWIwZTM00WnYYIisInVzZXJuYW1lIjoiY2hhbm14aW01LCJpYXQiOjE3NjQ0OTg5NDIsImV4cCI6MTc2NDU4NTM0Mn0.SQ0516MRol-1-LXZstvxZjCjA2ao0RpBSpPZxJ1idoA"
5 }
```

Assignment1 / /api/v1/user/signup

POST https://101490785-comp3123-assignment2-back.vercel.app/api/v1/user/signup

Body (9) Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "username": "chanmxim",
3   "email": "chanmxim@gmail.com",
4   "password": "password123"
5 }
```

Body Cookies Headers (12) Test Results ⚡

201 Created 315 ms 604 B Save Response

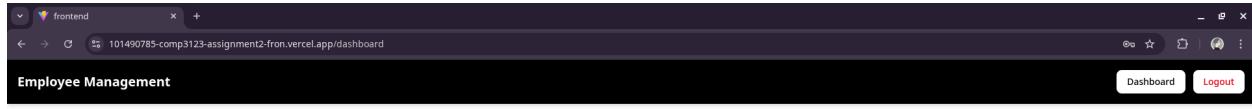
{ JSON Preview Visualize }

```
1 {
2   "status": true,
3   "message": "User created successfully.",
4   "user_id": "692c1d944aa4f49b0e349cac"
5 }
```

Frontend CRUD operations

The screenshot shows a browser window for the "Employee Management" application. The URL is `101490785-comp3123-assignment2-fron.vercel.app/signup`. The page title is "Employee Management". At the top right are "Login" and "Signup" buttons. A central modal dialog is titled "Create an account". It contains three input fields: "Username" (value: "test1"), "Email" (value: "test1@domain.com"), and "Password" (value: "....."). Below the fields are two buttons: a dark "Sign Up" button and a light "Proceed to Login" button.

The screenshot shows a browser window for the "Employee Management" application. The URL is `101490785-comp3123-assignment2-fron.vercel.app/login`. The page title is "Employee Management". At the top right are "Login" and "Signup" buttons. A central modal dialog is titled "Login to your account". It contains two input fields: "Email" (value: "test1@domain.com") and "Password" (value: "....."). Below the fields are two buttons: a dark "Login" button and a light "Proceed to Sign up" button.



Employee Directory

Employee Directory			
Full Name	Department	Email	Actions
Max Tran	IT	max.tran@gbc.ca	...
Jane (Edited) Doe (Edited)	IT	janedoe@gmail.com	...
Violetta Evergarden	Marketing	vio@gmail.com	...

A screenshot of a web browser window titled "Employee Management". The URL is "101490785-comp3123-assignment2-frontend.vercel.app/add". The page has a dark header with "Employee Management", "Dashboard", and "Logout" buttons. A modal dialog box is open with the title "Add New Employee". It contains two sections: "Personal Details" and "Employment Details". In "Personal Details", there are fields for First Name (Jane), Last Name (Doe), and Email (jane.doe@gmail.com). In "Employment Details", there are fields for Position (SWE), Department (IT), Annual Salary (\$), and Date of Joining (12/12/2015). There is also a "Upload Photo" field with the file "Choose file s2.png". At the bottom of the modal are "Cancel" and "Add Employee" buttons.

frontend

101490785-comp3123-assignment2-fron.vercel.app/details/692c228e4aa4f49b0e349cc6

Jane Doe

Employee ID:

Redux Counter
2

Contact & Personal

Email: janedoe@gmail.com

Employment Details

Position: SWE
Department: IT
Salary: 213213
Date of Joining: 2015-12-12

[Back to Dashboard](#) [Delete](#) [Edit Details](#)

frontend

101490785-comp3123-assignment2-fron.vercel.app/update/692c228e4aa4f49b0e349cc6

Edit Details for Employee ID:
692c228e4aa4f49b0e349cc6

Personal Details

First Name: Jane (Edited) Last Name: Doe (Edited)

Email: janedoe@gmail.com

Employment Details

Position: SWE Department: IT
Annual Salary (\$): 213213 Date of Joining: 12/12/2015

Upload Photo
Choose file my_photo.jpg

[Cancel](#) [Update](#)

frontend

101490785-comp3123-assignment2-fron.vercel.app/details/692c228e4aa4f49b0e349cc6

Jane (Edited) Doe (Edited)

Employee ID:



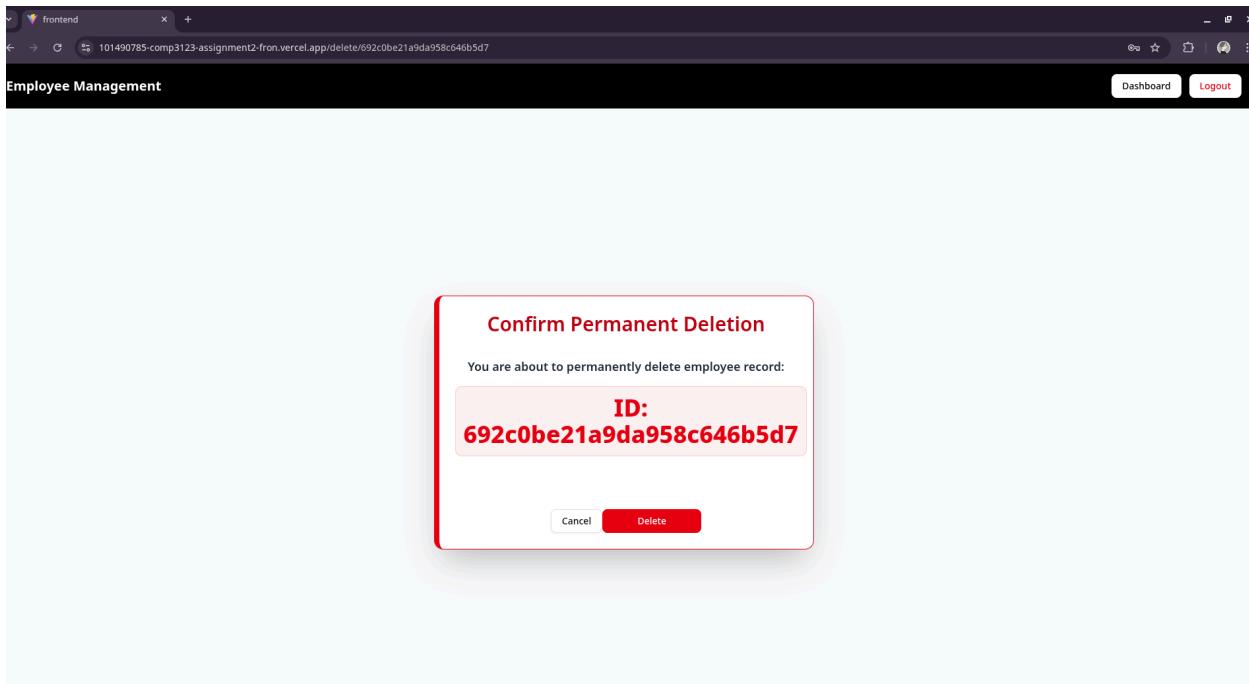
Contact & Personal

Email	janedoe@gmail.com
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Employment Details

Position	SWE
Department	IT
Salary	213213
Date of Joining	2015-12-12

[~ Back to Dashboard](#) [Delete](#) [Edit Details](#)



Search Screen

The image displays three vertically stacked screenshots of a web application interface titled "Employee Management". The top two screenshots show search results for employees, while the bottom one shows a search result for a specific department.

Screenshot 1 (Top): A search query "Jane (Edited) Doe (Edited)" is entered into the search bar. The results table shows three employees:

Full Name	Department	Email	Actions
Max Tran	IT	max.tran@gbc.ca	...
Jane (Edited) Doe (Edited)	IT	janedoe@gmail.com	...
Violetta Evergarden	Marketing	vio@gmail.com	...

Screenshot 2 (Middle): A search query "sddffdadfsfz" is entered into the search bar. The results table shows no records found:

Full Name	Department	Email	Actions
No employee records found.			

Screenshot 3 (Bottom): A search query "IT" is entered into the search bar. The results table shows two employees in the IT department:

Full Name	Department	Email	Actions
Max Tran	IT	max.tran@gbc.ca	...
Jane (Edited) Doe (Edited)	IT	janedoe@gmail.com	...