

NAMA : HANA ZAHRINA

KELAS : SI 32

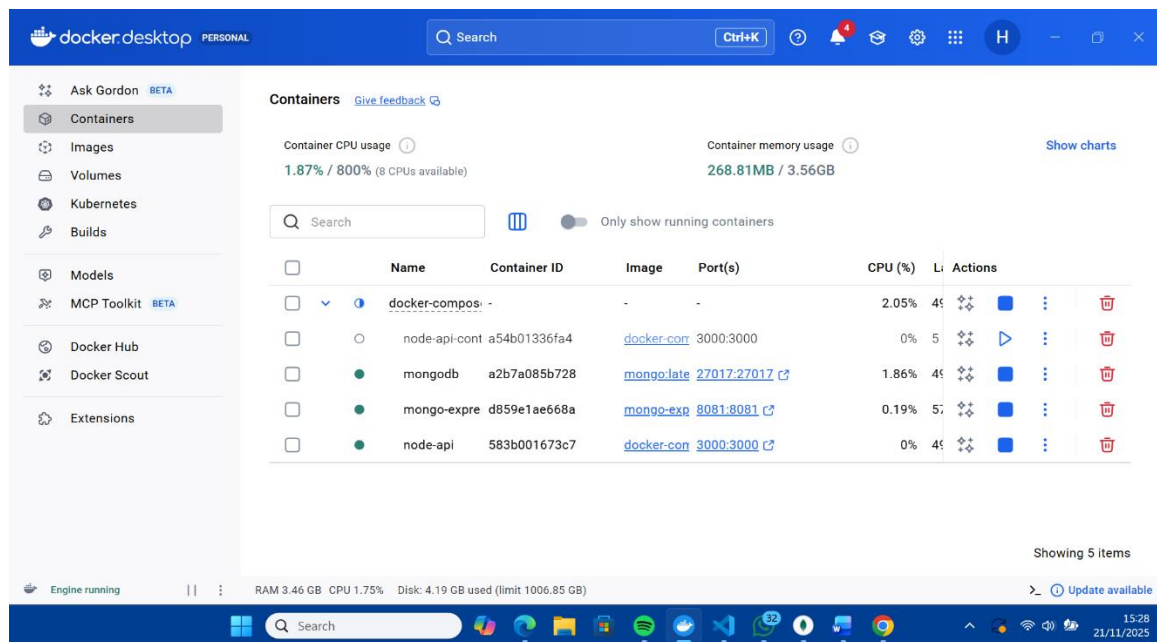
NIM : 2457201049

MATKUL : SISTEM BASIS DATA

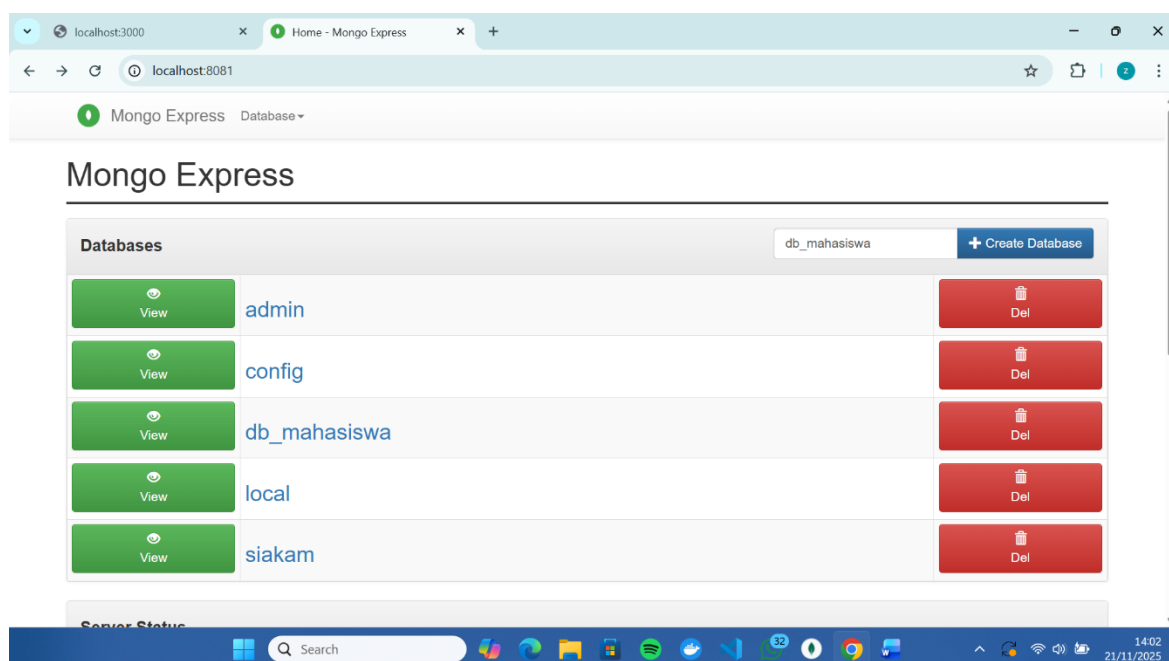
TUGAS : Instalasi dan Project Mini : Sistem Informasi (Mongo Express GUI, MongoDB Compass, Visual Studio Code)

## A.DOKUMENTASI INSTALASI

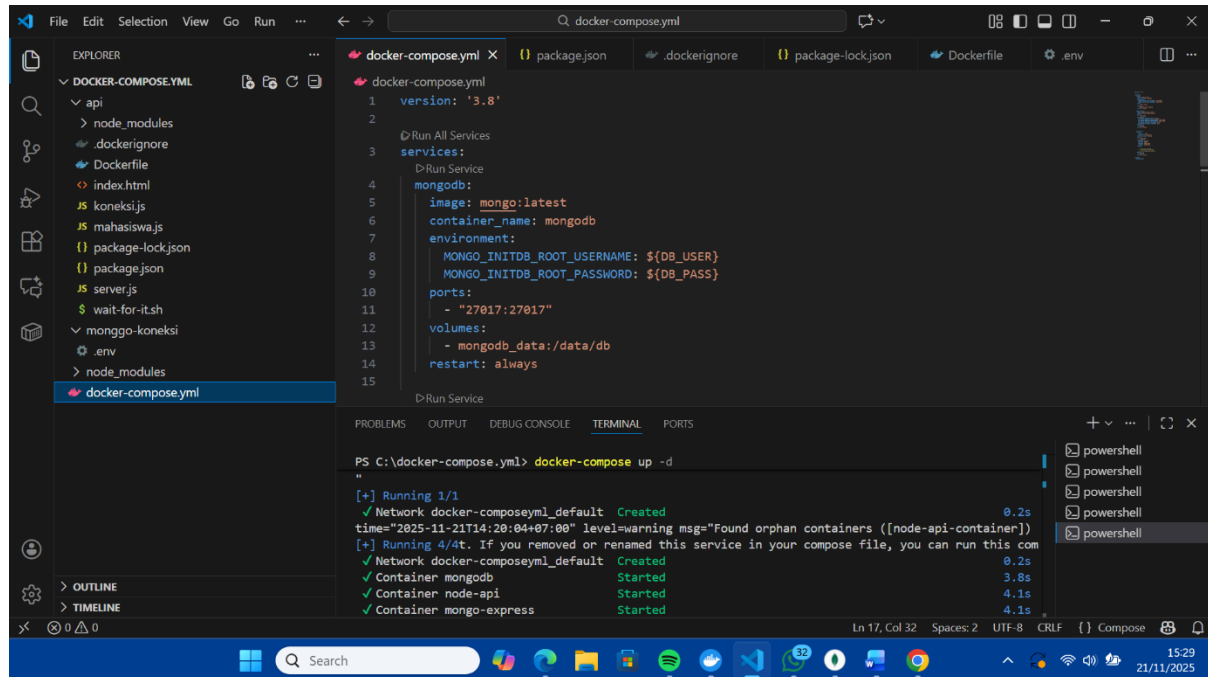
### 1. Tampilan Docker



### 2. Tampilan Mongo Express GUI

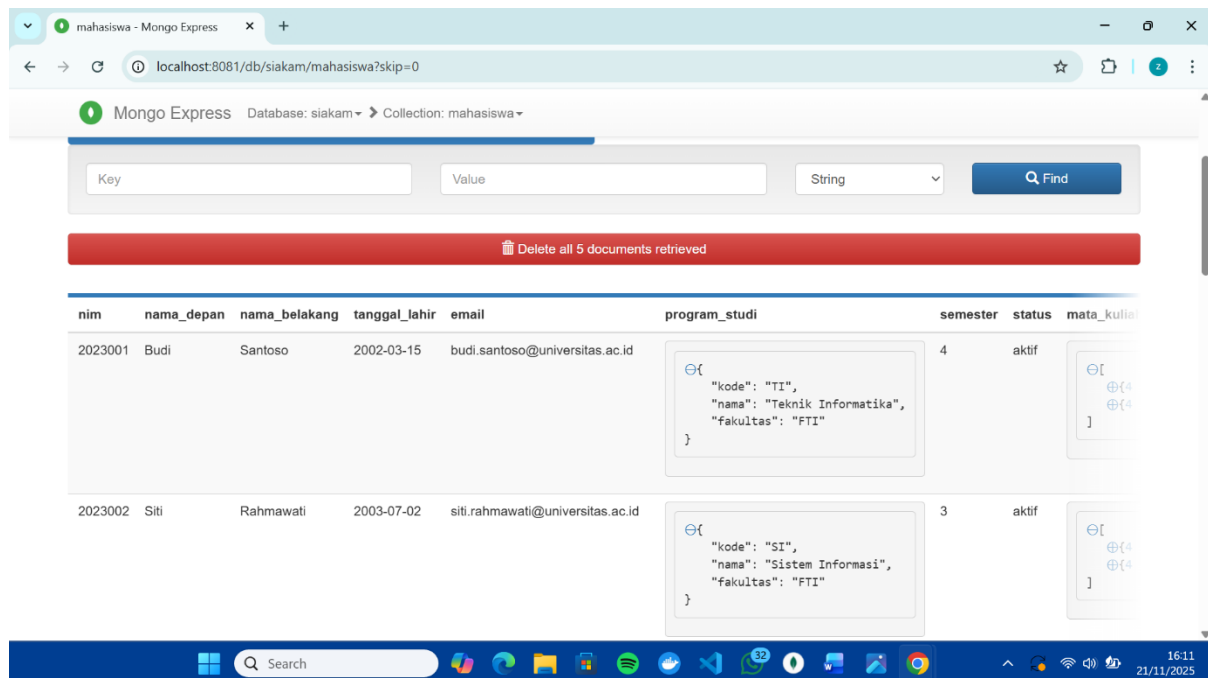


### 3. Tampilan Vscode



## PROJECT MINI

### 1. Insert 5 mahasiswa dengan jurusan berbeda



Mongo Express Database: siakam Collection: mahasiswa

2023003	Ahmad	Putra	2001-11-20	ahmad.putra@universitas.ac.id	{ "kode": "TK", "nama": "Teknik Komputer", "fakultas": "FTI" }	6	aktif	{ "kode": "TK", "nama": "Teknik Komputer", "fakultas": "FTI" }
2023004	Nadia	Kurnia	2004-01-05	nadia.kurnia@universitas.ac.id	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }	2	aktif	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }
2023005	Rizky	Wicaksono	2002-05-18	rizky.wicaksono@universitas.ac.id	{ "kode": "SI", "nama": "Sistem Informasi", "fakultas": "FTI" }	5	cuti	{ "kode": "SI", "nama": "Sistem Informasi", "fakultas": "FTI" }

## 2. Cari mahasiswa dengan ipk > 3.5

Mongo Express Database: siakam Collection: mahasiswa

Projection: { "ipk": { "\$gt": 3.5 } }

Aggregate query: Find

Delete all 2 documents retrieved

email	program_studi	semester	status	mata_kuliah_diambil	ipk	prestasi	create_at	update_at
budi.santoso@universitas.ac.id	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }	4	Aktif	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }	3.65	Juara 2 Hackathon 2023, Asisten Lab Basis Data	2023-09-01T10:00:00Z	2024-01-15T14:30:00Z
nadia.kurnia@universitas.ac.id	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }	2	Aktif	{ "kode": "TI", "nama": "Teknik Informatika", "fakultas": "FTI" }	3.85	Juara 1 Lomba Coding	2024-07-01T12:00:00Z	2024-11-01T12:00:00Z

### 3. Update status mahasiswa menjadi “Lulus”

Mongo Express Database: siakam Collection: mahasiswa

lakang	tanggal_lahir	email	program_studi	semester	status	mata_kuliah_diambil	ipk	prestasi	cre
	2002-03-15	budi.santoso@universitas.ac.id	<pre>{   "kode": "TI",   "nama": "Teknik Informatika",   "fakultas": "FTI" }</pre>	4	lulus	<pre>[   @{4 items},   @{4 items} ]</pre>	3.65	Juara 2 Hackathon 2023,Asisten Lab Basis Data	20%
ti	2003-07-02	siti.rahmawati@universitas.ac.id	<pre>{   "kode": "SI",   "nama": "Sistem Informasi",   "fakultas": "FTI" }</pre>	3	lulus	<pre>[   @{4 items},   @{4 items} ]</pre>	3.35	Peserta Kompetisi UI/UX 2024	05%

Mongo Express Database: siakam Collection: mahasiswa

Ahmad	Putra	2001-11-20	ahmad.putra@universitas.ac.id	<pre>{   "kode": "TK",   "nama": "Teknik Komputer",   "fakultas": "FTI" }</pre>	6	lulus	<pre>[   @{4 items},   @{4 items} ]</pre>
Nadia	Kurnia	2004-01-05	nadia.kurnia@universitas.ac.id	<pre>{   "kode": "TI",   "nama": "Teknik Informatika",   "fakultas": "FTI" }</pre>	2	lulus	<pre>[   @{4 items},   @{4 items} ]</pre>
Rizky	Wicaksono	2002-05-18	rizky.wicaksono@universitas.ac.id	<pre>{   "kode": "SI",   "nama": "Sistem Informasi",   "fakultas": "FTI" }</pre>	5	lulus	<pre>[   @{4 items},   @{4 items},   @{4 items} ]</pre>

16:09 21/11/2025

The screenshot shows the Mongo Express web interface in a browser. The address bar shows the URL: `localhost:8081/db/siakam/mahasiswa?query=%7B%22nim%22%3A%222023002%22%7D%0D%0A&projection=`. The interface has a "Simple" tab selected and an "Advanced" tab. The query field contains `{ "nim": "2023002" }`. The projection field is empty. There is a checkbox for "Aggregate query" and a "Find" button. Below the query fields, a red banner indicates "Delete all 1 documents retrieved". The results table shows one document with the following fields: `_id`, `nim`, `nama_depan`, `nama_belakang`, `tanggal_lahir`, `email`, `program_studi`, and `semester`. The document data is: `{ "nim": "2023002", "nama_depan": "Siti", "nama_belakang": "Rahmawati", "tanggal_lahir": "2003-07-02", "email": "siti.rahmawati@universitas.ac.id", "program_studi": { "kode": "SI", "nama": "Sistem Informasi", "fakultas": "FTI" }, "semester": 3 }`. A yellow circle highlights the delete icon in the document's action column.

[illegible]