Indexing various devices in lot platherns:

· Scenario :- An lot plattorm needs to support a wide

Requirement: - efficient data storage and indexing to Query by devices id location (b) parameter

· challenge: - Device data structure may differ;

, God! - Quick matrienal by common queries

Why a Json-Based Document Dutabase (MangoDB)
Pits.

1- Flexible schema

· Device Data can vary widely

· MangooB stores each document as Ison like BSON . Indexing support

* Can create indexes on deviced, Cocation (d (a) even tested program like sensor

oIOT Platherm generate massive shigh frequency data which Mango DB 1 can handle via shardeing and horizontal sliding Biample Json Document for lot Devices Data;

{ ildevice 1d" = "delive 123"

" device Type" = "thermostat",

"Location"= {

" Cocation 12": "To cal 001",

"building" : "Building A",

" floor": 3

Huspitalia = 1011 claim date = 2023 - 10-01, Amount = 2000, · Status = 's y brinitted' · Read i d'b-daims, find ({ Policy Number: 1 PN1231.3); · nbgage: db-claims-updateOne({ claim id: 1001 } , Eset: { Stakus: Approve d', approval dukt: 12023-10-10/3 3

100000

dob

15

3);

DELETE',--db. dains delete One (Eclaimid = 1001});

Result Thus the miniproject is successfully verified and excented