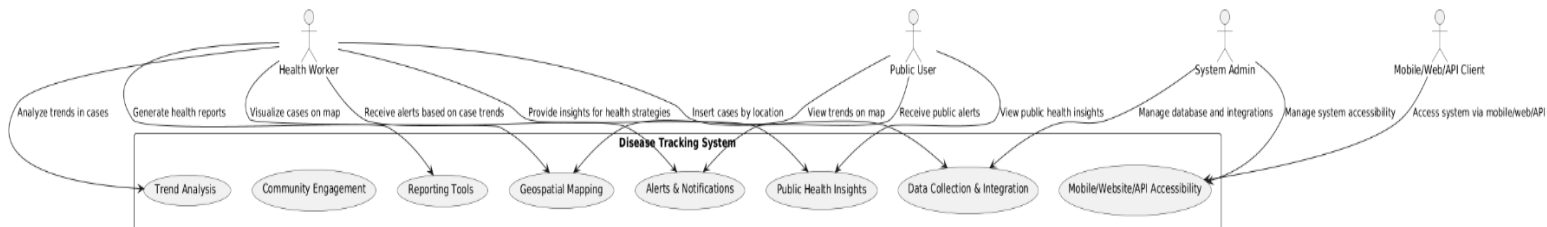


2272049 JOSHUA JONATHAN, 2272040 DAUD JUNALDI PARASIAN PANJAITAN, 2272012
CHRISTIAN ADRIEL SUGIHARTO, 2272009 CHARLES WINATA

<https://www.planttext.com/>

Use Case



@startuml

actor "Health Worker" as HW

actor "Public User" as PU

actor "System Admin" as Admin

actor "Mobile/Web/API Client" as Client

rectangle "Disease Tracking System" {

usecase "Data Collection & Integration" as DC

usecase "Geospatial Mapping" as GM

usecase "Trend Analysis" as TA

usecase "Alerts & Notifications" as AN

usecase "Reporting Tools" as RT

usecase "Public Health Insights" as PHI

usecase "Community Engagement" as CE

usecase "Mobile/Website/API Accessibility" as MWAPI

}

HW --> DC : Insert cases by location

HW --> GM : Visualize cases on map

HW --> TA : Analyze trends in cases

HW --> AN : Receive alerts based on case trends

HW --> RT : Generate health reports

HW --> PHI : Provide insights for health strategies

PU --> GM : View trends on map

PU --> PHI : View public health insights

PU --> AN : Receive public alerts

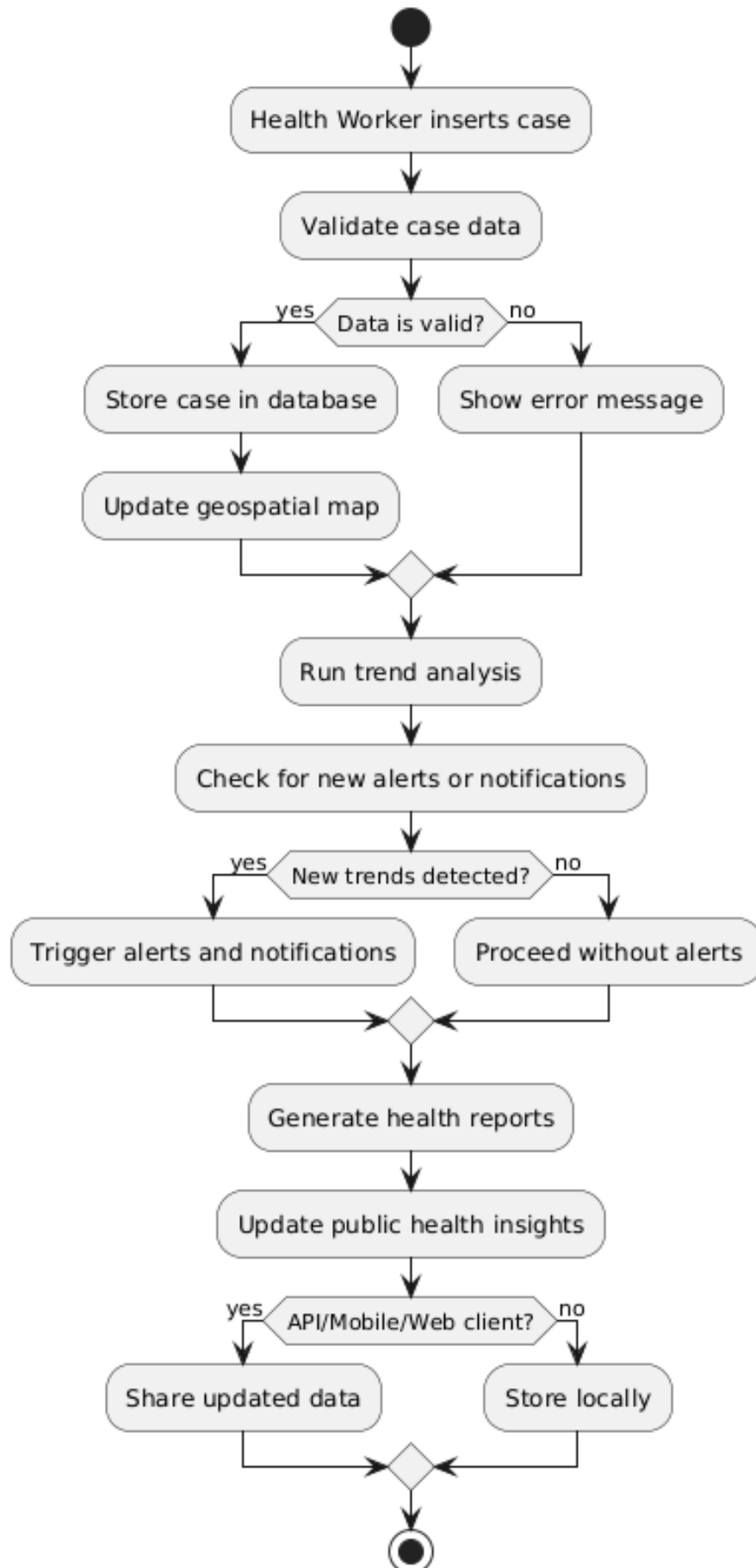
Client --> MWAPI : Access system via mobile/web/API

Admin --> DC : Manage database and integrations

Admin --> MWAPI : Manage system accessibility

@enduml

2. flow/Activity diagram



@startuml

start

:Health Worker inserts case;

:Validate case data;

if (Data is valid?) then (yes)

 :Store case in database;

 :Update geospatial map;

else (no)

 :Show error message;

endif

:Run trend analysis;

:Check for new alerts or notifications;

if (New trends detected?) then (yes)

 :Trigger alerts and notifications;

else (no)

 :Proceed without alerts;

endif

:Generate health reports;

:Update public health insights;

if (API/Mobile/Web client?) then (yes)

 :Share updated data;

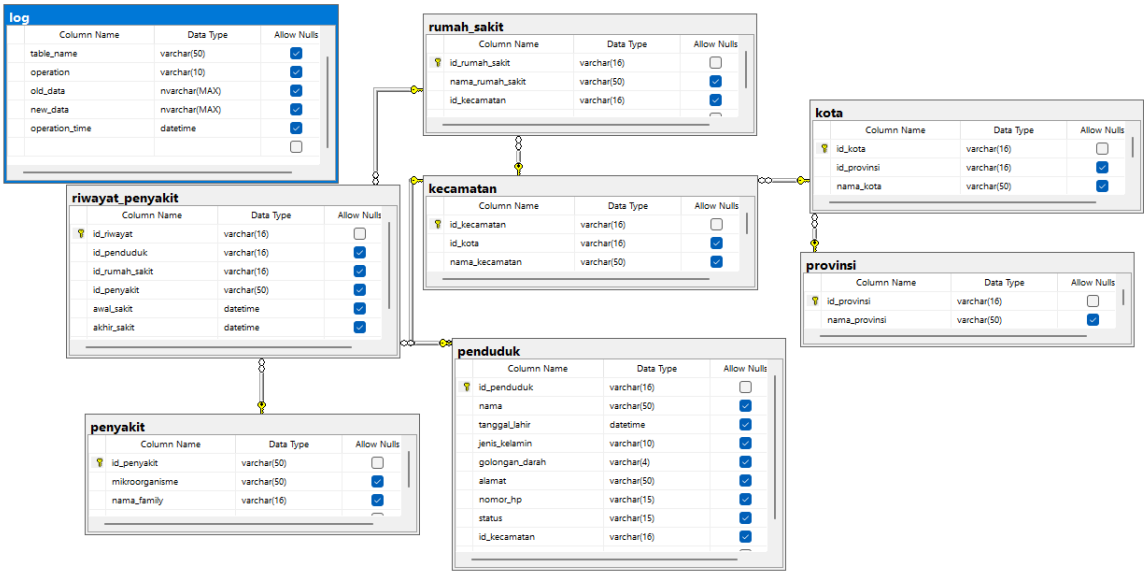
else (no)

 :Store locally;

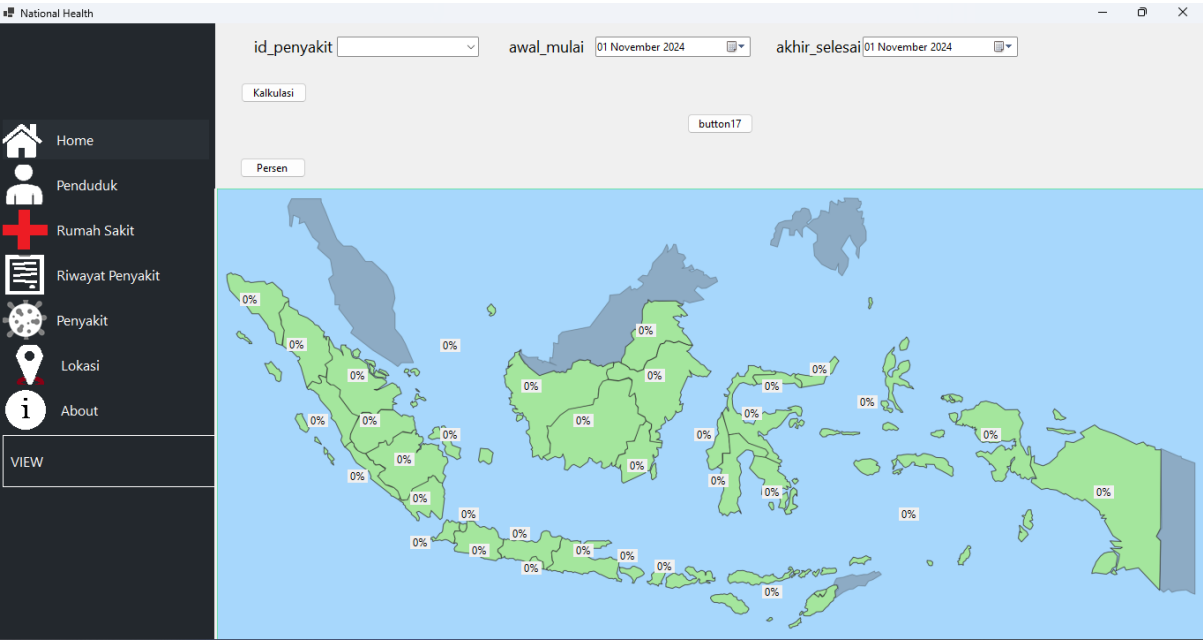
endif

stop

@enduml
ERD



UI/UX



National Health

Home

Penduduk

Rumah Sakit

Riwayat Penyakit

Penyakit

Lokasi

About

VIEW

Riwayat

id_rwayat

id_penduduk

id_rumah_sakit

id_penyakit

awal_sakit

01 November 2024

akhir_sakit

01 November 2024

☐ Jadikan NULL

Insert

Update

Delete

| | id_rwayat | id_penduduk | id_rumah_sakit | id_penyakit | awal_sakit | akhir_sakit |
|---|-----------|-------------|----------------|-------------|------------|-------------|
| ▶ | 1 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 10 | 1 | 1 | Ebola | 01/06/2024 | 16/06/2024 |
| | 11 | 10 | 2 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 12 | 10 | 2 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 13 | 10 | 2 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 14 | 10 | 2 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 15 | 10 | 2 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 16 | 123 | 5 | Hepatitis B | 01/06/2024 | 16/06/2024 |
| | 17 | 123 | 5 | Hepatitis B | 01/06/2024 | 16/06/2024 |
| | 18 | 123 | 5 | Hepatitis B | 01/06/2024 | 16/06/2024 |
| | 19 | 123 | 5 | Hepatitis B | 01/06/2024 | 16/06/2024 |
| | 2 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 20 | 123 | 5 | Hepatitis B | 01/06/2024 | 16/06/2024 |
| | 21 | 11 | 8 | Ebola | 01/06/2024 | 15/06/2024 |
| | 23 | 9 | 6 | Ebola | 29/05/2024 | 16/06/2024 |
| | 3 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 31 | 20 | 2 | COVID-19 | 18/07/2019 | 12/06/2014 |
| | 32 | 5 | 4 | Cholera | 01/06/2024 | |
| | 4 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 5 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 6 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 7 | 1 | 1 | AIDS | 01/06/2024 | 16/06/2024 |
| | 8 | 1 | 1 | COVID-19 | 01/06/2024 | 16/06/2024 |
| | 9 | 1 | 1 | TBC | 01/06/2024 | 16/06/2024 |