**Title:** Transport Management System

**Expected Finish Date:** 2022-11-30

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**Related components:** List\_of\_transport\_services.pdf

**External Link:** AWS tracking IoT (https://aws.amazon.com/blogs/architecture/field-notes-fleet-tracking-using-amazon-location-service-with-aws-iot/)

**Approvers:** <people expect to approve>

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Yes|NotYet** | **Approved Date** | **Remarks** |
| Logistic Manager | Not Yet | <YYYY-MM-DD> | - |
| Data analyst | Not Yet | <YYYY-MM-DD> | - |
| Operation Manager | Not Yet | <YYYY-MM-DD> | - |

**Others Reviewer(s):** <written by people who comments>

**Start Date:** 2022-10-24

## Summary

## Problem & Motivation

Diperlukan sistem manajemen untuk transportasi produk pakan eFishery, khususnya pada eMall. Hal ini dikarenakan *supply chain* perlu disesuaikan *demand.* AWS IoT digunakan untuk melacak lokasi setiap transportasi dan memberikan data yang sesuai untuk jumlah *supply* yang dibawa.

## Detailed design

* Database Design

**Table 1. Initial\_Identifier**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| database\_id | serial | id for each new data row |
| user\_id | varchar | id for user |
| user\_type | varchar | tipe user (admin, customer, atau driver) |
| created\_date | timestamptz | Waktu data dibentuk |
| modified\_date | timestamptz | Waktu data diubah |

**Table 2. User\_Credential**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| user\_id | int | id for user |
| username | varchar | username |
| Password | varchar | password |
| Last\_login | varchar | login terakhir |

## **Table 3. Admin\_Details**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| user\_id | int | id for user admin |
| user\_type | varchar | Tipe user (admin) |
| admin\_name | varchar | nama admin |
| admin\_email | varchar | email admin |
| admin\_phone | int | No. telephone admin |
| admin\_addr | varchar | Alamat admin |
| NIK\_admin | int | NIK admin |
| assigned\_troop\_id | int | id untuk grup transportasi yang diberikan kepada admin |

**Table 4. Customer\_Details**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| user\_id | int | id for user customer |
| user\_type | varchar | Tipe user (customer) |
| customer\_name | varchar | nama customer |
| email\_customer | varchar | email customer |
| customer\_phone | int | No. telephone customer |
| customer\_addr | varchar | Alamat customer |
| NIK\_customer | int | NIK customer |
| order\_id | int | Order id customer |

**Table 5. Transport\_Group**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| assigned\_troop\_id | int | id grup transportasi |
| driver\_id | int | id untuk driver |
| transport\_service | varchar | tipe servis (JNE, TIKI, SiCepat, J&T) |

**Table 5. Driver\_Details**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| driver\_id | int | id driver |
| nama\_driver | varchar | nama driver |
| email\_driver | varchar | Email driver |
| driver\_phone | int | kontak driver |
| driver\_addr | varchar | Alamat driver |
| NIK\_driver | int | NIK driver |
| vehicle\_id | int | Id untuk vehicle driver |

**Table 5. Vehicle\_Details**

|  |  |  |
| --- | --- | --- |
| Vehicle\_id | int | Id untuk vehicle driver |
| vehicle\_type | varchar | tipe kendaraan (Pick up, CDE, CDD, Kontainer, etc) |
| is\_active | boolean | Informasi untuk aktifnya driver (Yes or No) |
| tracking\_id | int | Tracking id untuk lokasi kendaraan |
| payload\_id | int | Identifier untuk payload/barang yang dibawa |
| progress\_status | varchar | Status progres driver (apakah Standby? On the way? Package delivered? |

**Table 6. Payload\_Details**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| Order\_id | int | Id order untuk customer |
| payload\_id | int | Identifier untuk payload/barang yang dibawa |
| payload\_name | varchar | Deskripsi payload/barang dibawa |
| payload\_qty | int | Jumlah payload/barang |
| tracking\_id | int | Tracking id untuk lokasi kendaraan |
| transport\_date | timestamptz | Tanggal payload dikirim |
| delivered\_date | timestamptz | Tanggal payload terkirim |
| payload\_warehouse | varchar | Asal warehouse payload/barang |
| delivery\_address | varchar | Alamat pengiriman payload |

**Table 7. Tracking\_Details**

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Description** |
| tracking\_id | int | Tracking id untuk lokasi kendaraan |
| speed | float | Kecepatan kendaraan dengan speedometer |
| longitude | double | Longitude kendaraan dengan GPS |
| latitude | double | Latitude kendaraan dengan GPS |

* API\_Contract
* TMS\_App\_Flowchart
* Tracker\_Flowchart

## Dependencies

## Milestone/Deployment Strategy

## Data Result

## Drawbacks/Risks

## Alternatives

## Unresolved/Future Possibilities