

Title: eTransportation Management System

Expected Finish Date: 2022-10-25

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Related components: [What is Transport Management System](#)

External Link: -

Approvers: Efishery Academy Mentors

Name	Yes NotYet	Approved Date	Remarks
Puja Pramudya	Not Yet	<YYYY-MM-DD>	

Others Reviewer(s): -

Start Date: 2022-10-25

Summary

Manajemen logistik untuk perusahaan logistik. eTMS ini akan digunakan untuk mengontrol status dispatching melalui API yang dibuat.

Problem & Motivation

Sebuah perusahaan logistik memerlukan pemantauan status keberjalanan bisnis secara digital. Proses logistik yang akan dilakukan adalah: Assignment dari dispatcher menuju kurir/sopir, sopir menerima assignment untuk mengantarkan barang sampai ke tujuan, dan sopir mengabarkan status ketersampaian. Dengan platform digital, dapat dihasilkan produk kontrol status yang lebih transparan dan mudah diakses. Platform ini akan memantau keberlangsungan logistik pada transportasi Truk.

Detailed design

Database Design

Database eTMS_main

Name	Type	Required	Description
id	serial	yes	auto increment id
Truck_id	int	yes	Which truck brings the batch
Driver_id	Int	Yes	Which driver brings the batch
Batch	Int	Yes	Which batch this trucks in
description	varchar	yes	Overall description of the logistic
time_dispatch	timestampz	yes	Time of the dispatch happens
Time_arrive	timestampz	yes	Time of the arrival happens
route	varchar	no	Trucks Route
position	int	yes	Trucks Current Position

Database Driver

Name	Type	Required	Description
Driver_id	Int	Yes	Which driver brings the batch
name	varchar	yes	Driver's name

API Contract

```

Description : get active drivers
URL : /drivers
Query Param
  1. Banner Type
    a. Example URL = /drivers
Headers : without auth

Response :
200 Success
{
  "message": "successfully found drivers",
  "success": true,
  "data": [{
    "truck_id": "1",
    "driver_id": "1",
    "description": "Truck full of nuts",

```

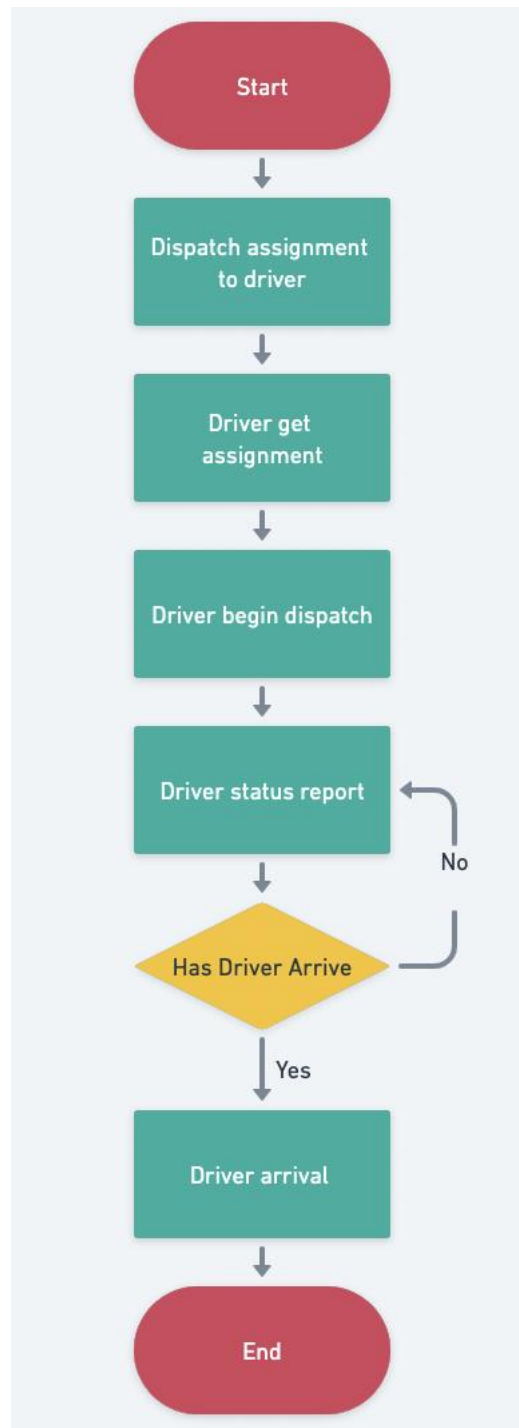
```
        "route": {...},
    }
}

if drivers not found
Response :
200 Success
{
    "message": "failed fetch drivers data"
    "success": true,
    "data": []
}
```

Whimsical

Application Name : eTransport Management System

Flow:

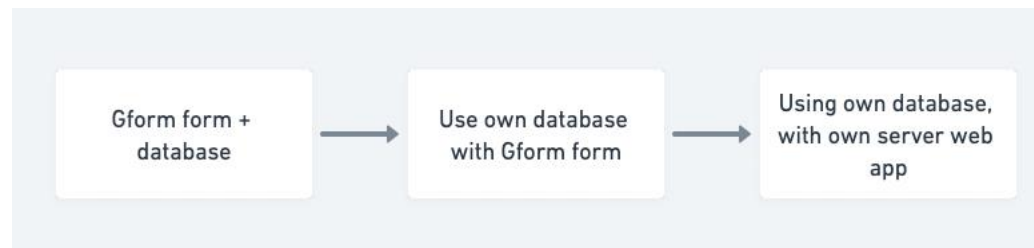


Dependencies

- Database System
- Form system

Milestone/Deployment Strategy

Adoption and Migration



Drawbacks/Risks

- Server down
- Server breached

Alternatives

- Using other TMS system. Such as Kargo

Unresolved/Future Possibilities

<listing sesuatu yang masih abu-abu dan ga jelas, perlu riset lanjut, kemungkinan ke depannya>

- Membuat TMS khusus ikan, udang, atau aquacultur lainnya.