NET CORE GENESIS

Fundamentals
&
Solution Generation from Database

CLI, C#.Net Core Backend, React JS UI

v1.3.2

Feb 2020

What is and Why Net Core Genesis?

When you start a new project, there are lots of common infrastructural tasks and routine developments forcing you to spend valuable time re-inventing the wheel instead of focusing on your core business.

1) Backend & UI Framework
as a ready infrastructure

Genesis helps you get jobs done ahead of your schedule by providing you ready-to-go Dot Net Core & ReactJS project solutions

2) AutoCode
as a Solution Generator

A cross platform CLI-Command Line Interface generates all the strong code necessary to bootstrap your business from Day 1.

3) DevOps Automation
as CI/CD Process

Just push your code to Git version management, Genesis platform will be handling the rest of your deployment to server

Architecture Design

NET CORE GENESIS

GENESIS UI FRAMEWORK

REACT JS LIBRARY

ADMIN MODULE

SOLUTION GENERATOR

API GATEWAY

MICROSERVICES API

PRIVATE REPO

DRONE CI/CD

NET CORE GENESIS INFRASTRUCTURE

Data Access, Authentication & Authorization, Session, Cache, Localization, Exception Handling, Logging
User Mgmt, Multi-Tenancy, Communication, Work-Flow, Scheduler

KAFKA & ZOOKEEPER

REDIS CACHE

ELASTIC STACK

RDBMS & NoSQL

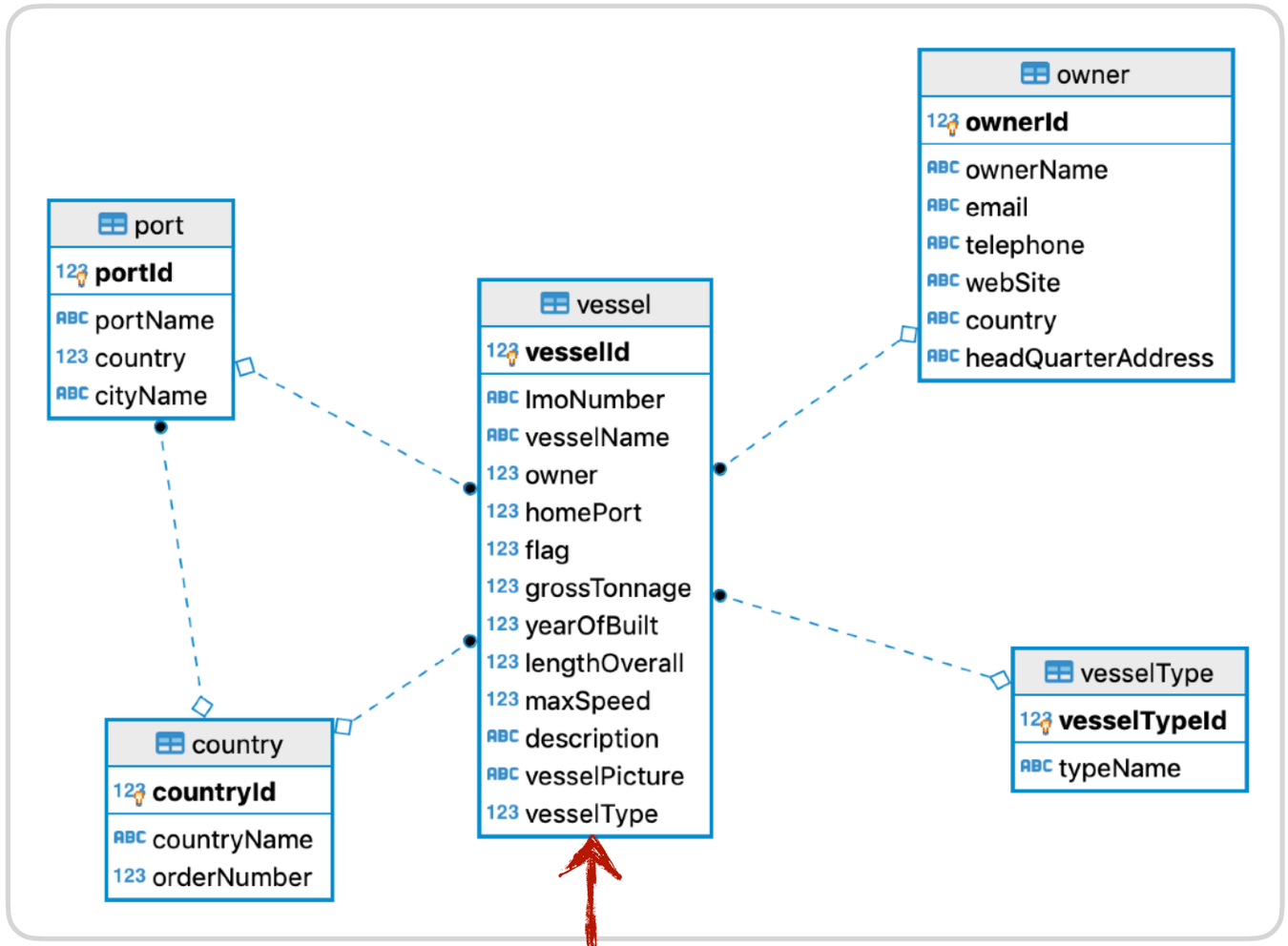
DEBEZIUM

SMART CONTRACTS

IDENTITY SERVER

DOCKER

Database / ER Diagram



Any business can be built on Genesis.

Just create a proper and comprehensive data model (or services) for a quick start

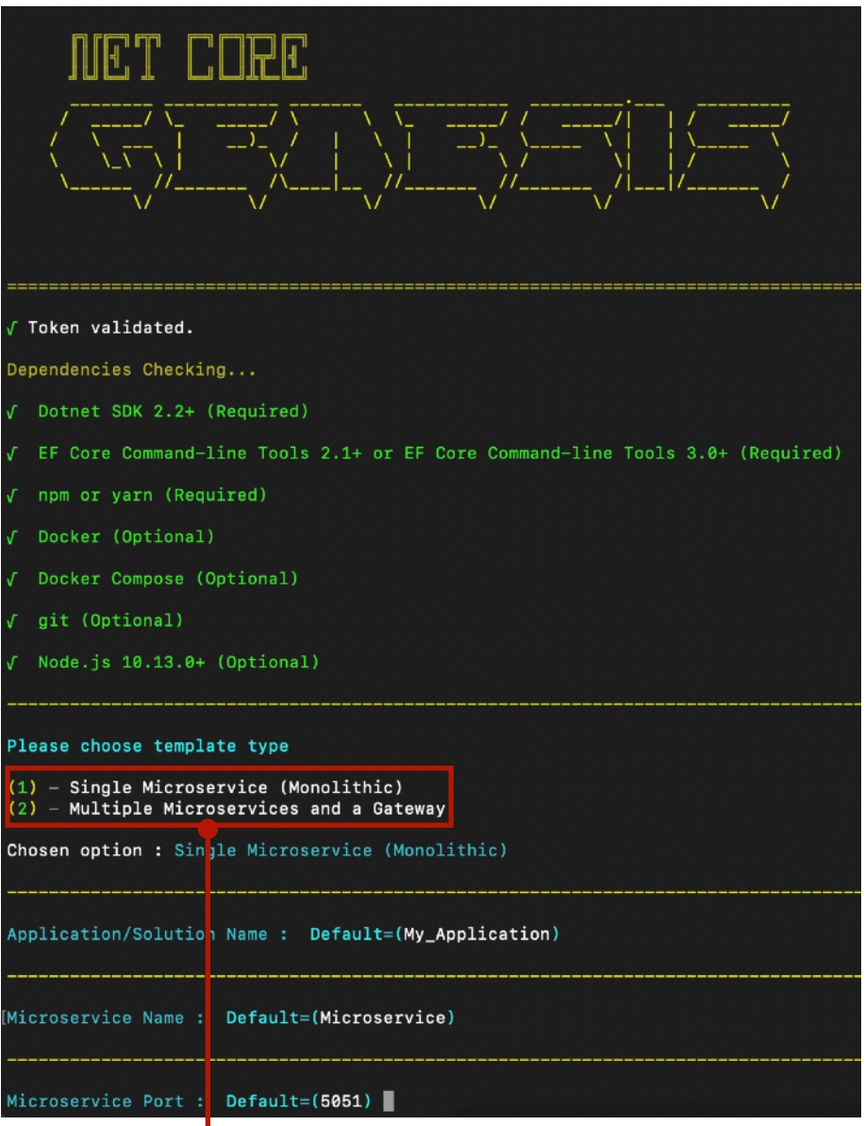
Column Name	#	Data type	Length	Precision	Scale	Identity	Collation	Not Null
vesselId	1	int4		10				☑
ImoNumber	2	varchar	10	10			default	☑
vesselName	3	varchar	100	100			default	☑
owner	4	int4		10				☑
homePort	5	int4		10				☑
flag	6	int4		10				☑
grossTonnage	7	int8		19				☐
yearOfBuilt	8	int4		10				☐
lengthOverall	9	int4		10				☐
maxSpeed	10	numeric		5	2			☐
description	11	text					default	☐
vesselPicture	12	text					default	☐
vesselType	13	int4		10				☑

All metadata is fetched

- Table name
- Column name
- Data type
- Length
- Precision, Scale
- Primary key, Foreign key, other constraints
- Nullability and so on…

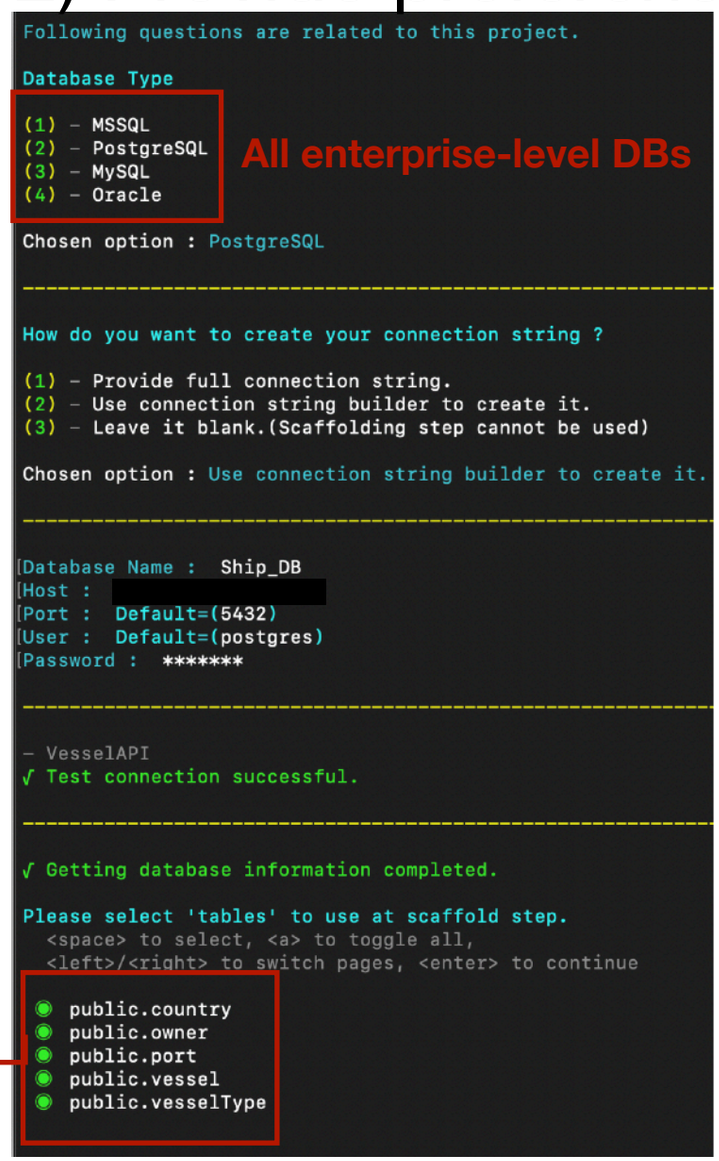
Solution Generator *(CLI/Terminal based)*

1) Start creation



Microservice architecture support

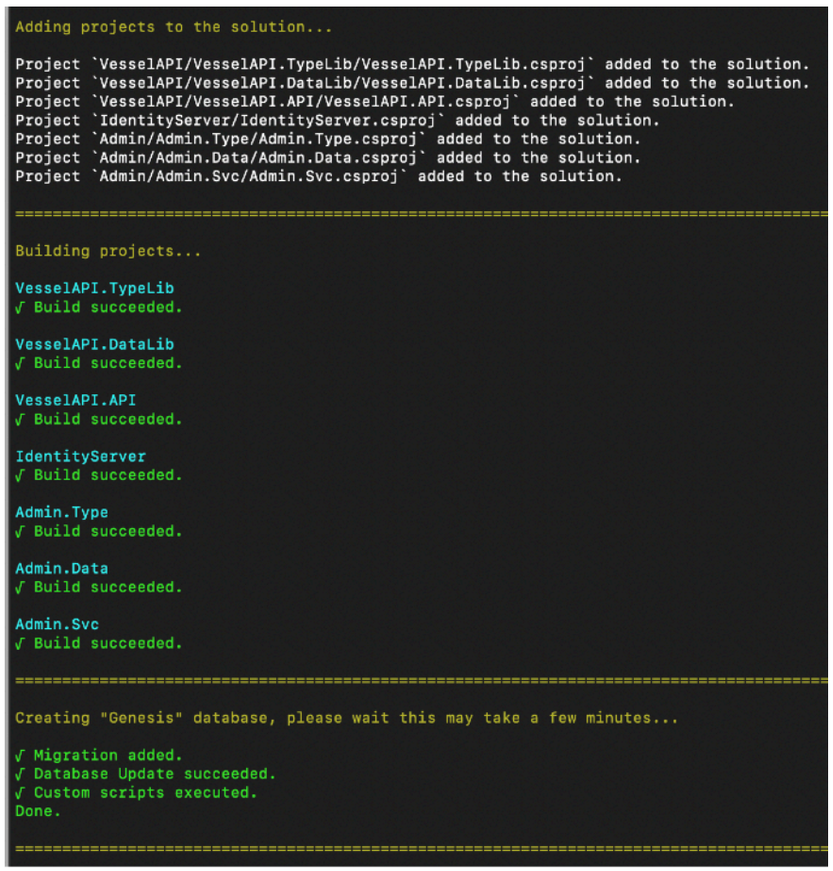
2) Provide preferences



All enterprise-level DBs

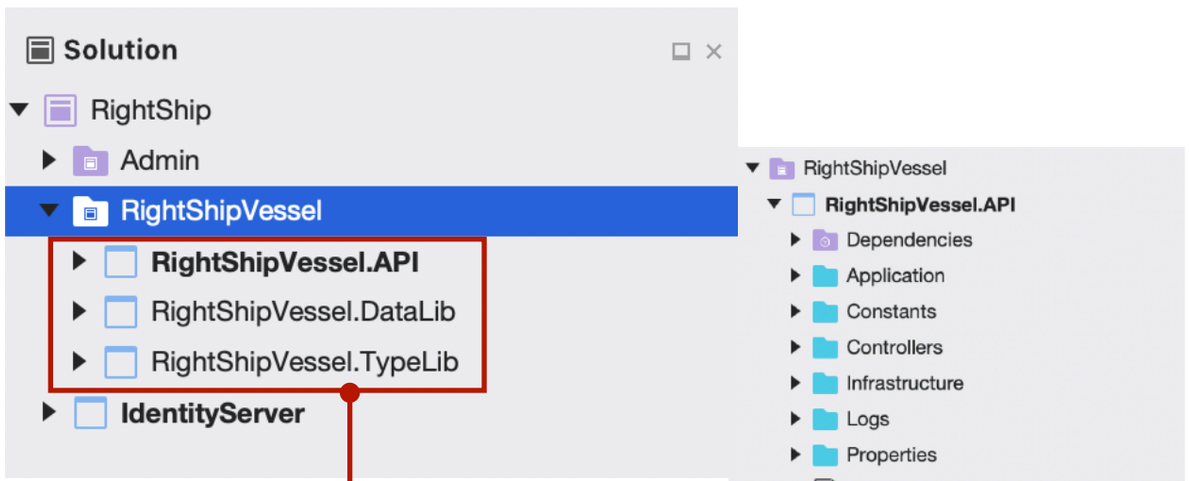
Choose DB tables

3) Let it be generated from end-to-end

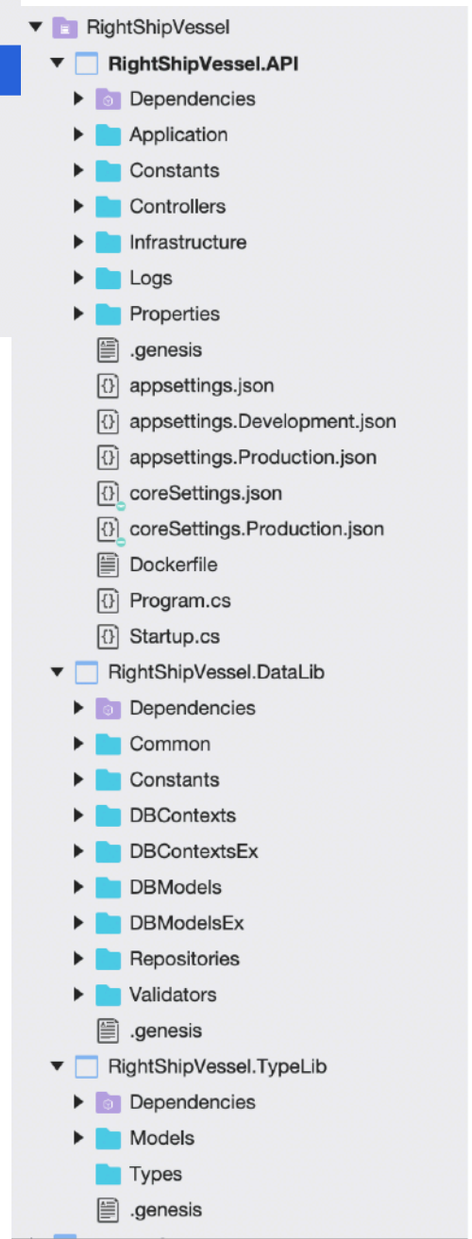


Generated Projects

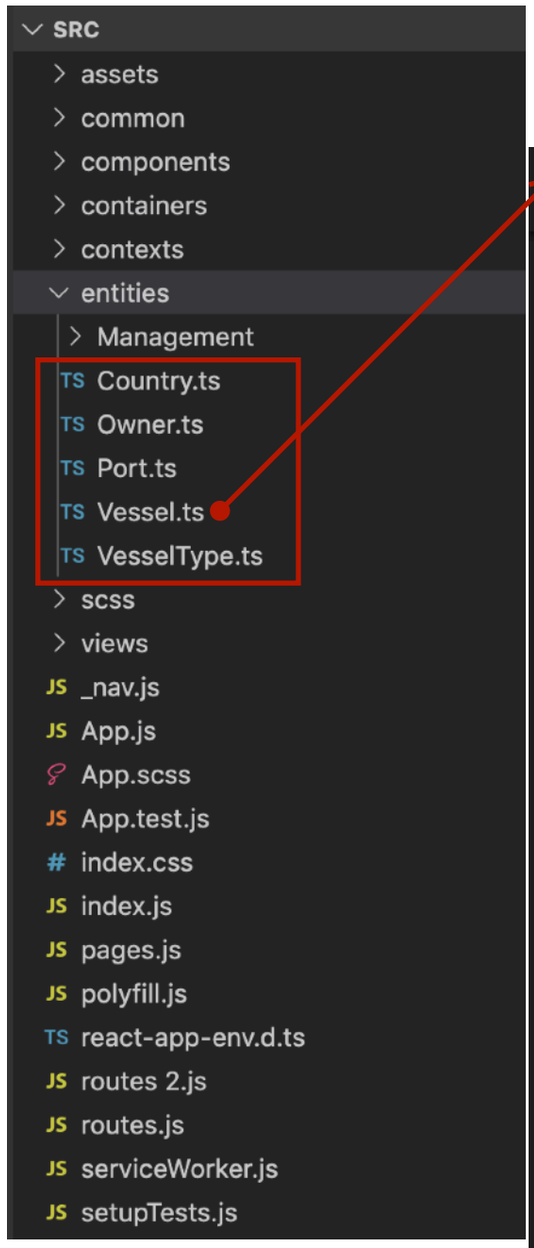
1) Backend (C#.Net Core)

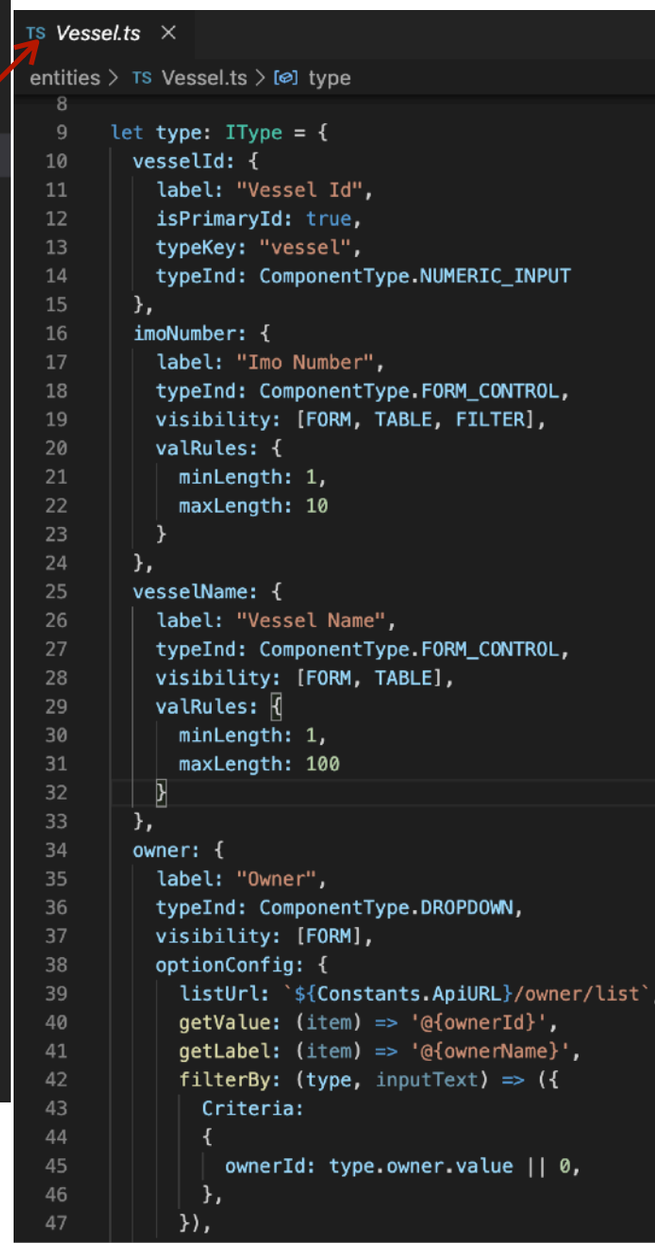


Lean, Traceable, Debuggable
3-Tier Architecture



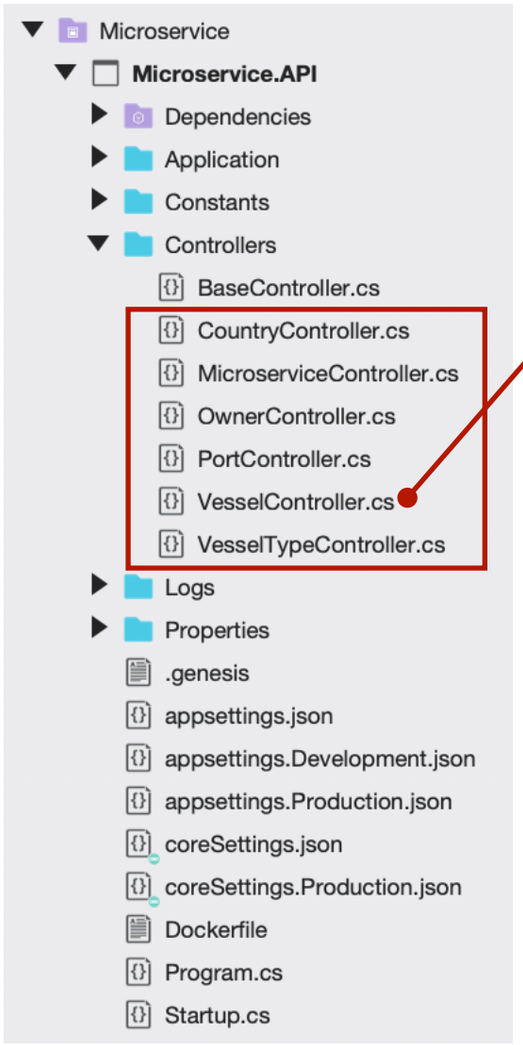
2) Frontend (React JS)





Generated Backend / API

Controllers



6 methods generated for each controller

1) list
2) getById
3) insert
4) update
5) delete
6) bulkSave

Batch upload by Excel

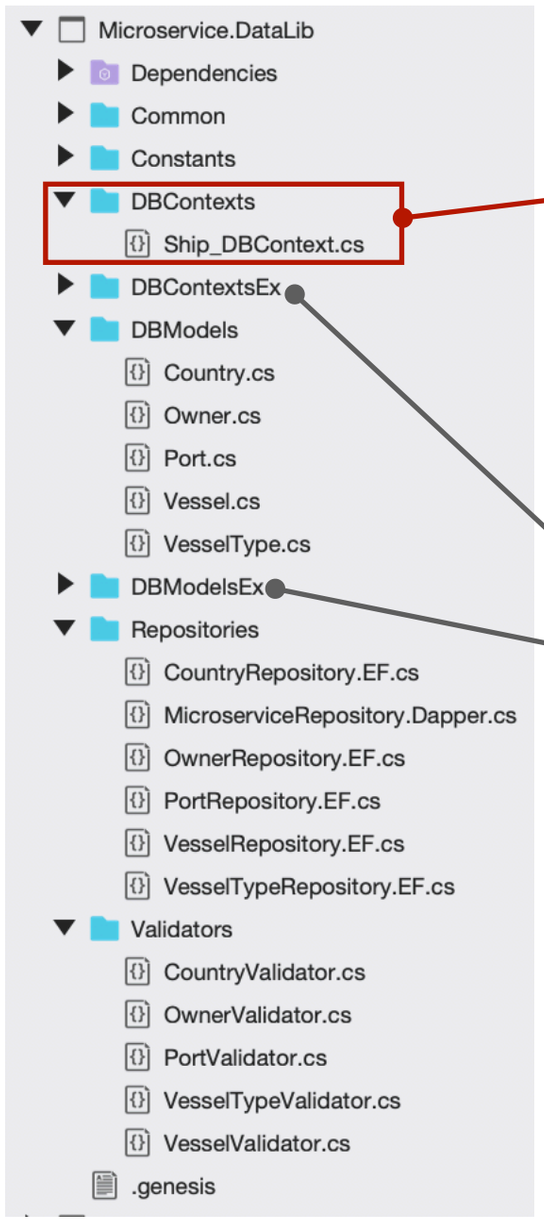
Resource code + Action for permission-check

```
namespace Microservice.API.Controllers
{
    [Authorize]
    [Route("[controller]")]
    [Resources("Vessel_Res")]
    public class VesselController : BaseController
    {
        private readonly VesselRepository _mainRepository = new VesselRepository();
        private readonly VesselValidator _vesselValidator = new VesselValidator();

        [HttpPost("list")]
        [ClaimRequirement(ActionType.List)]
        public ResponseWrapper List([FromBody] RequestWithPagination<Vessel> request)
        {
            ResponseWrapper genericResponse = new ResponseWrapper();

            _mainRepository.Session = Session;

            genericResponse.Data = _mainRepository.List(request);
            genericResponse.Message = DistributedCache.Get(Messages.PROCESS_SUCCESSFUL, Session);
            genericResponse.Success = true;

            return genericResponse;
        }

        [HttpPost("getById")]
        [ClaimRequirement(ActionType.GetRecord)]
        public ResponseWrapper GetById([FromBody] Vessel request)
        {
            ResponseWrapper genericResponse = new ResponseWrapper();

            _mainRepository.Session = Session;

            genericResponse.Data = _mainRepository.GetById(request);
            genericResponse.Message = DistributedCache.Get(Messages.PROCESS_SUCCESSFUL, Session);
            genericResponse.Success = true;

            return genericResponse;
        }

        [HttpPost("insert")]
        [ClaimRequirement(ActionType.Insert)]
        public ResponseWrapper Insert([FromBody] Vessel request)
        {
            _vesselValidator.ValidateAndThrow(request, Session);

            return Save(request);
        }

        [HttpPost("update")]
        [ClaimRequirement(ActionType.Update)]
        public ResponseWrapper Update([FromBody] Vessel request)
```

Model validator

Generated Backend / Data Layer

1) DBContext



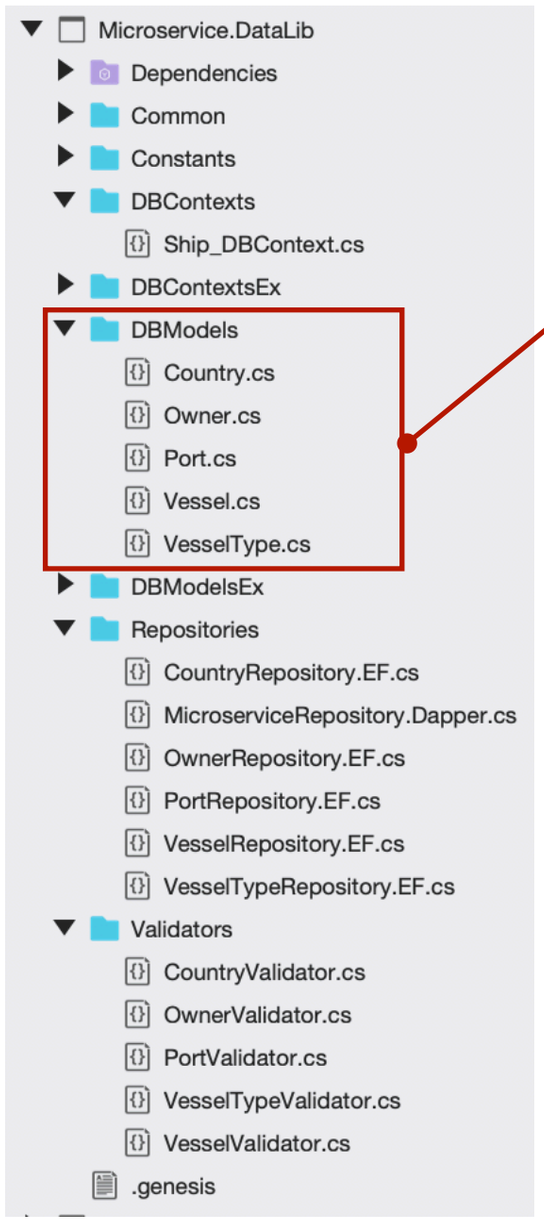
1) **DBContext**
2) Models
3) Repositories
4) Validators

Extended and/or partial classes

```
public virtual DbSet<Country> Country { get; set; }
public virtual DbSet<Owner> Owner { get; set; }
public virtual DbSet<Port> Port { get; set; }
public virtual DbSet<Vessel> Vessel { get; set; }
public virtual DbSet<VesselType> VesselType { get; set; }

protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
{
    base.OnConfiguring(optionsBuilder);

    if (!optionsBuilder.IsConfigured)
    {
        optionsBuilder.UseNpgsql(ConfigurationManager.GetConnectionString("PostgreSQL"), b => b.MigrationsAssembly("Microservice.API"));
    }
}

protected override void OnModelCreating(ModelBuilder modelBuilder)
{
    base.OnModelCreating(modelBuilder);

    modelBuilder.HasAnnotation("ProductVersion", "2.2.6-servicing-10079");

    modelBuilder.Entity<Country>(entity =>
    {
        entity.Property(e => e.OrderNumber).HasDefaultValueSql("0");
    });

    modelBuilder.Entity<Port>(entity =>
    {
        entity.HasOne(d => d.CountryNavigation)
            .WithMany(p => p.Port)
            .HasForeignKey(d => d.Country)
            .HasConstraintName("port_fk");
    });

    modelBuilder.Entity<Vessel>(entity =>
    {
        entity.HasOne(d => d.FlagNavigation)
            .WithMany(p => p.Vessel)
            .HasForeignKey(d => d.Flag)
            .OnDelete(DeleteBehavior.ClientSetNull)
            .HasConstraintName("vessel_country_fk");

        entity.HasOne(d => d.HomePortNavigation)
            .WithMany(p => p.Vessel)
            .HasForeignKey(d => d.HomePort)
            .OnDelete(DeleteBehavior.ClientSetNull)
            .HasConstraintName("vessel_port_fk");

        entity.HasOne(d => d.OwnerNavigation)
            .WithMany(p => p.Vessel)
            .HasForeignKey(d => d.Owner)
            .OnDelete(DeleteBehavior.ClientSetNull)
```

Generated Backend / Data Layer

2) DB Models

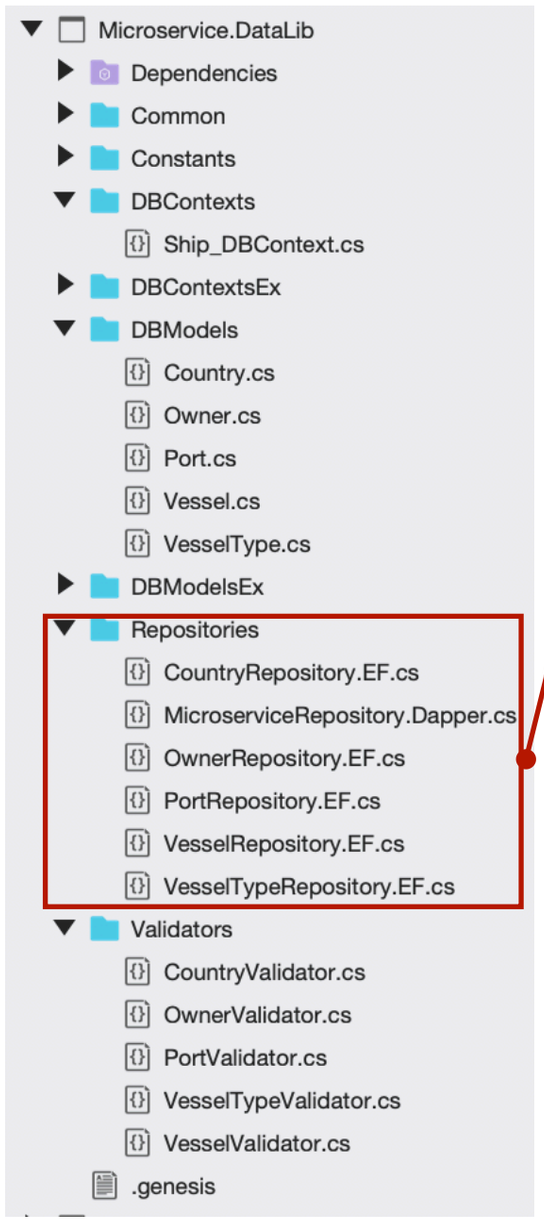


1) DBContext
2) **Models**
3) Repositories
4) Validators

```
namespace Microservice.DataLib.DBModels
{
    [Table("vessel")]
    public partial class Vessel
    {
        [Column("vesselId")]
        public int VesselId { get; set; }
        [Required]
        [StringLength(10)]
        public string ImoNumber { get; set; }
        [Required]
        [Column("vesselName")]
        [StringLength(20)]
        public string VesselName { get; set; }
        [Column("owner")]
        public int Owner { get; set; }
        [Column("homePort")]
        public int HomePort { get; set; }
        [Column("flag")]
        public int Flag { get; set; }
        [Column("grossTonnage")]
        public long? GrossTonnage { get; set; }
        [Column("yearOfBuilt")]
        public int? YearOfBuilt { get; set; }
        [Column("lengthOverall")]
        public int? LengthOverall { get; set; }
        [Column("maxSpeed", TypeName = "numeric(5,2)")]
        public decimal? MaxSpeed { get; set; }
        [Column("description")]
        public string Description { get; set; }
        [Column("vesselPicture")]
        public string VesselPicture { get; set; }
        [Column("vesselType")]
        public int VesselType { get; set; }
        [Column("lastTrip", TypeName = "date")]
        public DateTime? LastTrip { get; set; }

        [ForeignKey("Flag")]
        [InverseProperty("Vessel")]
        public virtual Country FlagNavigation { get; set; }
        [ForeignKey("HomePort")]
        [InverseProperty("Vessel")]
        public virtual Port HomePortNavigation { get; set; }
        [ForeignKey("Owner")]
        [InverseProperty("Vessel")]
        public virtual Owner OwnerNavigation { get; set; }
        [ForeignKey("VesselType")]
        [InverseProperty("Vessel")]
        public virtual VesselType VesselTypeNavigation { get; set; }
    }
}
```

Generated Backend / Data Layer

3) Repositories



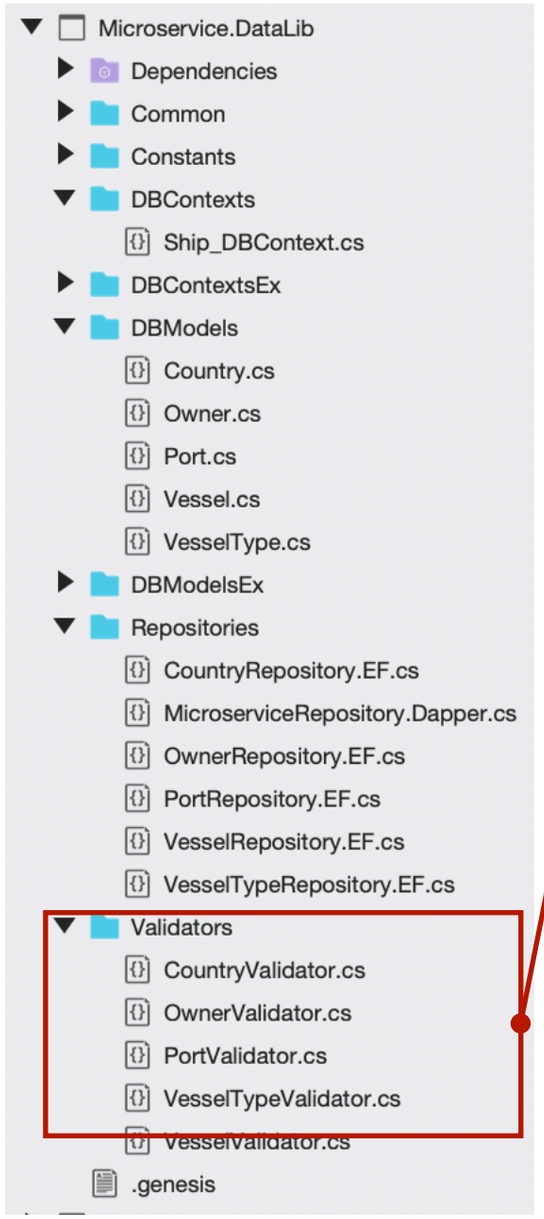
1) DBContext
2) Models
3) **Repositories**
4) Validators

```
namespace Microservice.DataLib.Repositories
{
    public partial class VesselRepository : BaseRepository
    {

        public PaginationWrapper<Vessel> List(RequestWithPagination<Vessel> entity)
        {
            PaginationWrapper<Vessel> res = new PaginationWrapper<Vessel>();

            using (var context = GetDbContext<Ship_DBContext>(Session))
            {
                res.List = context.Set<Vessel>()
                    .AsNoTracking()
                    .AddFiltersAndPagination(entity)
                    .ToList();

                return res;
            }
        }

        public Vessel GetById(Vessel entity)
        {
            using (var context = GetDbContext<Ship_DBContext>(Session))
            {
                return context.Set<Vessel>().Where(x => x.VesselId == entity.VesselId).FirstOrDefault();
            }
        }

        public Vessel Save(Vessel entity)
        {
            using (var context = GetDbContext<Ship_DBContext>(Session))
            {
                context.Set<Vessel>().Update(entity);
                context.SaveChanges();
                return entity;
            }
        }

        public bool Delete(Vessel entity)
        {
            using (var context = GetDbContext<Ship_DBContext>(Session))
            {
                context.Set<Vessel>().Remove(entity);
                context.SaveChanges();
                return true;
            }
```

handles “where” conditions and paging

Generated Backend / Data Layer

4) Validators *(FluentValidation)*



1) DBContext
2) Models
3) Repositories
4) **Validators**

```
namespace Microservice.DataLib.Validators
{
    public class VesselValidator : AbstractValidator<Vessel>
    {
        public VesselValidator()
        {
            RuleFor(x => x.VesselId)
                .NotNull();

            RuleFor(x => x.ImoNumber)
                .NotNull()
                .MaximumLength(10);

            RuleFor(x => x.VesselName)
                .NotNull()
                .MaximumLength(20);

            RuleFor(x => x.Owner)
                .NotNull();

            RuleFor(x => x.HomePort)
                .NotNull();

            RuleFor(x => x.Flag)
                .NotNull();

            RuleFor(x => x.VesselType)
                .NotNull();
        }
    }
}
```

Backend API Layer

API Layer and Web Services are ready-to-use

* *Swagger*
* *Open-API 3.0 Compliant*

swagger — Select a spec: RightShipVessel.API API

Service API V1

RightShipVessel.API/swagger.json

Country

- POST /Country/list
- POST /Country/getById
- POST /Country/insert
- POST /Country/update
- POST /Country/delete

Owner

- POST /Owner/list
- POST /Owner/getById
- POST /Owner/insert
- POST /Owner/update
- POST /Owner/delete

Port

- POST /Port/list
- POST /Port/getById
- POST /Port/insert
- POST /Port/update
- POST /Port/delete

Vessel

POST /Vessel/list

Parameters — Try it out

Name	Description
request *(body)*	Example Value | Model

```
{
  "pagination": {
    "currentPage": 0,
    "maxPage": 0,
    "totalRowCount": 0,
    "maxRowsPerPage": 0,
    "resultRowCount": 0
  },
  "criteria": {
    "vesselId": 0,
    "imoNumber": "string",
    "vesselName": "string",
    "owner": 0,
    "homePort": 0,
    "flag": 0,
    "grossTonnage": 0,
    "yearOfBuilt": 0,
    "lengthOverall": 0,
    "maxSpeed": 0,
    "description": "string",
    "vesselPicture": "string",
    "vesselType": 0,
    "flagNavigation": {
      "countryId": 0,
      "countryName": "string",
      "orderNumber": 0,
      "port": [
```

Parameter content type: application/json-patch+json

Authorization * required — string — access token → *Requests JWT bearer token*

Logging Middleware

logId	userId	serviceUrl	request	response	logDateBegin	logDateEnd
1	0	Account/Login	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":{"Model":{"AllowRememberLog	2019-12-05 05:40:16	2019-12-05 0
2	0	Account/Login	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":{"ViewName":"Redirect","Mode	2019-12-05 05:40:27	2019-12-05 0
3	1	Account/GetResources	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:04	2019-12-05 0
4	1	Account/GetResources	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:04	2019-12-05 0
6	1	Account/GetResources	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:04	2019-12-05 0
5	1	Account/GetResources	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:04	2019-12-05 0
7	1	Account/GetResources	{"ServiceUrlFull":"http://localhost:5000/Account	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:04	2019-12-05 0
8	1	authResources/list	{"ServiceUrlFull":"http://localhost:5050/authRes	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:26	2019-12-05 0
9	1	authResources/list	{"ServiceUrlFull":"http://localhost:5050/authRes	{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:26	2019-12-05 0
10	1	parameter/getByKey	{"ServiceUrlFull":"http://localhost:5050/paramet	{"ResponseBody":{"Value":{"Success":true,"Erro	2019-12-05 05:42:26	2019-12-05 0
11	1	about/list	{"ServiceUrlFull":"http://loca	e":{"Success":true,"Erro	2019-12-05 05:42:42	2019-12-05 0
12	1	about/getById	{"ServiceUrlFull":"http://loca	e":{"Success":true,"Erro	2019-12-05 05:42:48	2019-12-05 0
13	1	about/getById	{"ServiceUrlFull":"http://loca	e":{"Success":true,"Erro	2019-12-05 05:42:53	2019-12-05 0
14	1	about/update	{"ServiceUrlFull":"http://loca	e":{"Success":true,"Erro	2019-12-05 05:42:58	2019-12-05 0
15	1	about/list	{"ServiceUrlFull":"http://loca	e":{"Success":true,"Erro	2019-12-05 05:42:59	2019-12-05 0

{"ServiceUrlFull":"http://localhost:5050/parameter/getByKey","RequestBody":{"KeyCode":"RESOURCE_TYPE_OPTIONS"},"UserAgent":"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_6) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.108 Safari/537.36","Referrer":"http://localhost:3000/livePreview","RemoteIP":"127.0.0.1"}

{"ResponseBody":"Maximum response length ex	2019-12-05 05:42:26	2019-12-05 0
{"ResponseBody":{"Value":{"Success":true,"Erro	2019-12-05 05:42:26	2019-12-05 0
{"ResponseB		-12-05 0
{"ResponseB		-12-05 0
{"ResponseB		-12-05 0
{"ResponseB		-12-05 0
{"ResponseB		-12-05 0

{"ResponseBody":{"Value":{"Success":true,"Errors":[],"Message":"Process Successful.","Data":[{"ParameterId":3536,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":1,"OrderIndex":1,"Status":1,"Description":"","Translations":{"TR":"Menü","EN":"Menu"}},{"ParameterId":3537,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":2,"OrderIndex":2,"Status":1,"Description":"","Translations":{"TR":"Sayfa","EN":"Page"}},{"ParameterId":3538,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":3,"OrderIndex":3,"Status":1,"Description":"","Translations":{"TR":"Sekme","EN":"Tab"}},{"ParameterId":3539,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":4,"OrderIndex":4,"Status":1,"Description":"","Translations":{"TR":"Aksiyon Düğmesi","EN":"Action Button"}},{"ParameterId":3540,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":5,"OrderIndex":5,"Status":1,"Description":"","Translations":{"TR":"İş Akışı Adımı","EN":"Workflow Step"}},{"ParameterId":3541,"KeyCode":"RESOURCE_TYPE_OPTIONS","Value":6,"OrderIndex":6,"Status":1,"Description":"","Translations": ...

Every Request & Response pair is logged at once in the same row as json

* *User's current permissions are logged also*

Logging Middleware

```
namespace VesselAPI.DataLib.DBModels
{
    [Table("vessel")]
    public partial class Vessel
    {
        [Column("vesselId")]
        public int VesselId { get; set; }
        [Required]
        [StringLength(10)]
        public string ImoNumber { get; set; }
        [Required]
        [MaskedLogging(@"\w\w(.*)\w")]
        [Column("vesselName")]
        [StringLength(100)]
        public string VesselName { get; set; }
        [IgnoreLogging]
        [Column("owner")]
        public int Owner { get; set; }
        [Column("homePort")]
        public int HomePort { get; set; }
        [HashedLogging]
        [Column("flag")]
        public int Flag { get; set; }
        [Column("grossTonnage")]
        public long? GrossTonnage { get; set; }
        [Column("yearOfBuilt")]
        public int? YearOfBuilt { get; set; }
        [Column("lengthOverall")]
        public int? LengthOverall { get; set; }
        [Column("maxSpeed", TypeName = "numeric(5,2)")]
        public decimal? MaxSpeed { get; set; }
        [Column("description")]
        public string Description { get; set; }
        [Column("vesselPicture")]
        public string VesselPicture { get; set; }
        [Column("vesselType")]
        public int VesselType { get; set; }
```

We always seek ways

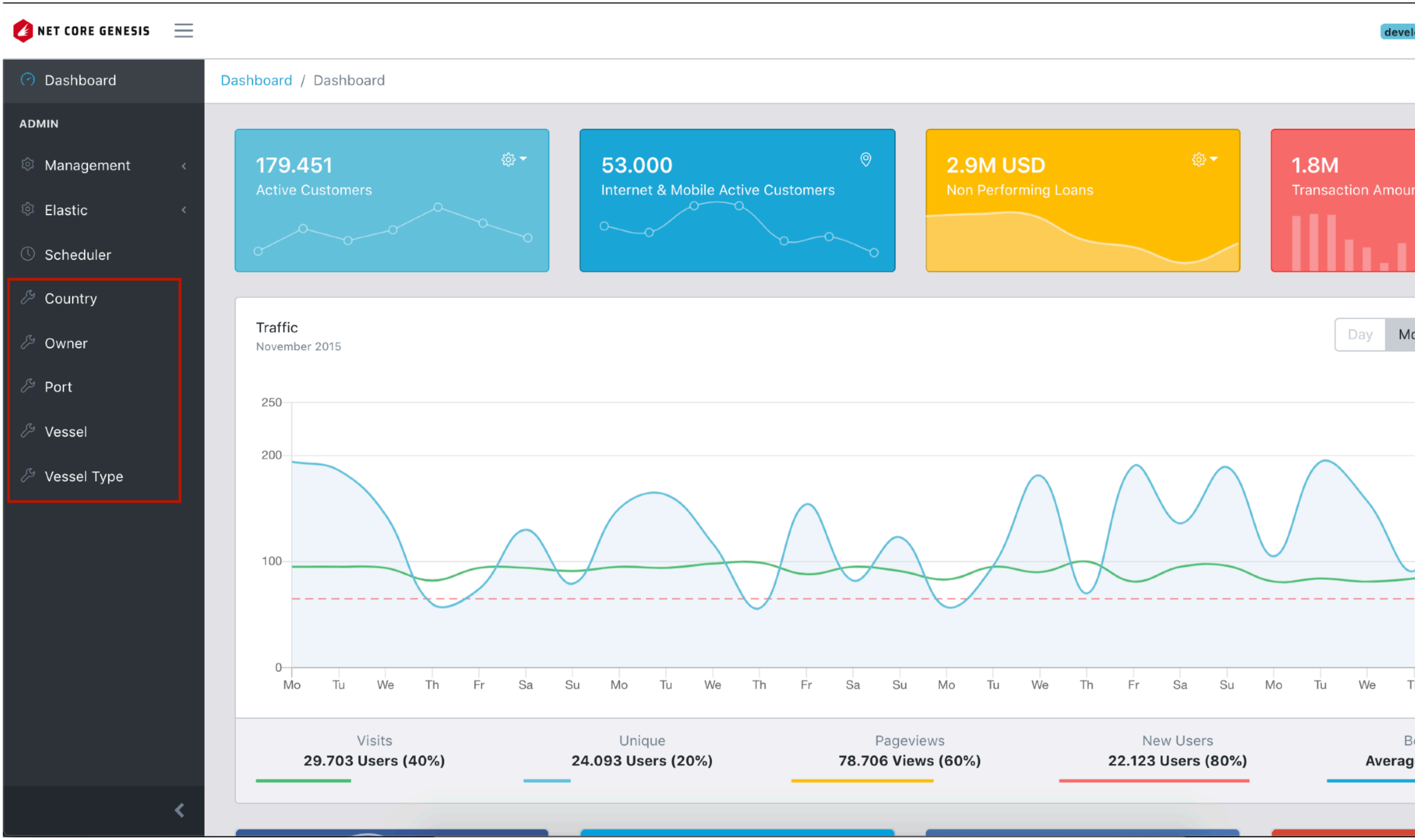
to simplify & lessen your coding effort

→ Log the value of “vesselName” as masked

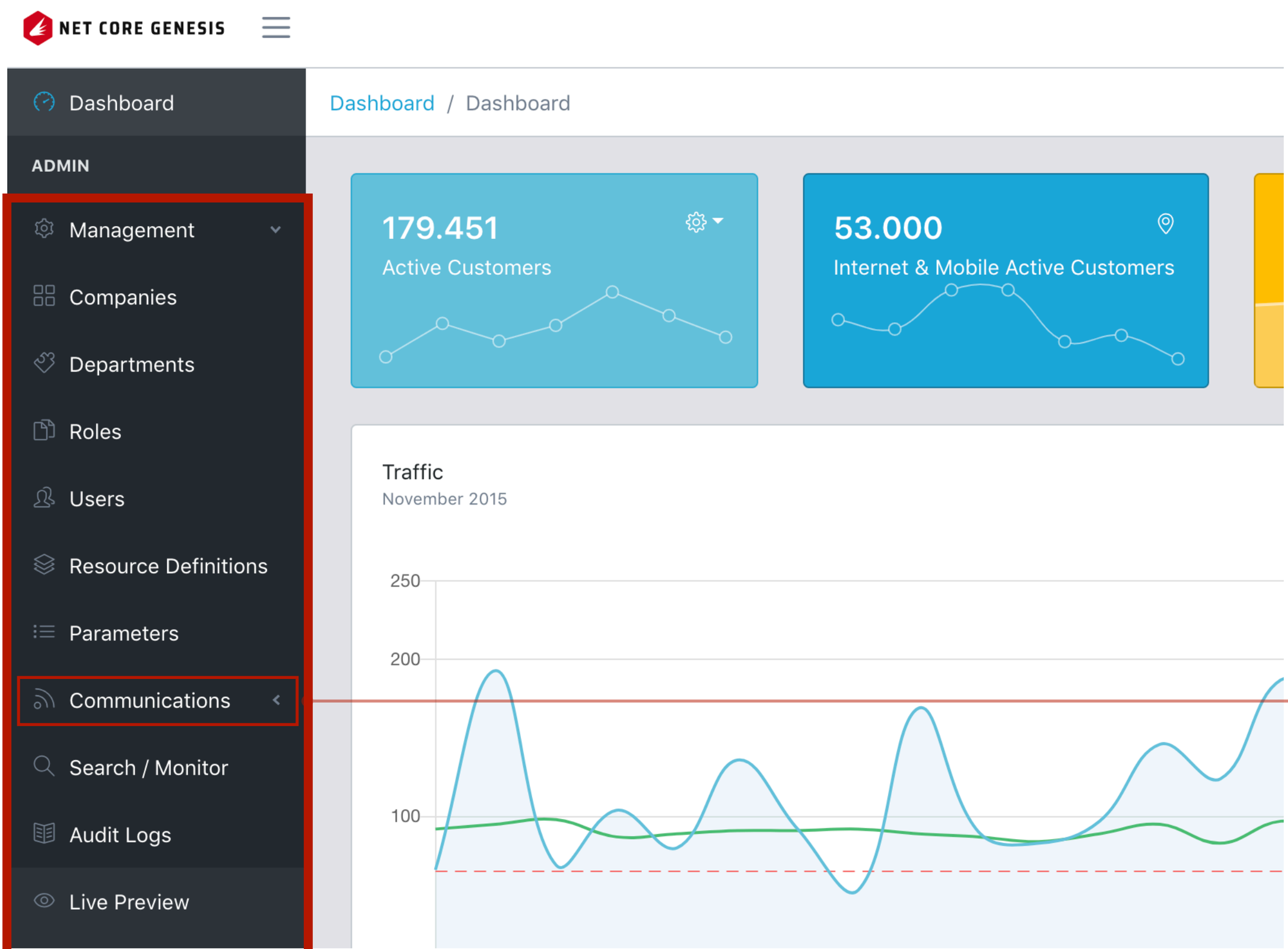
→ Do not log “owner” property ever

→ Log the value of “flag” as hashed

Frontend / Generated menu items



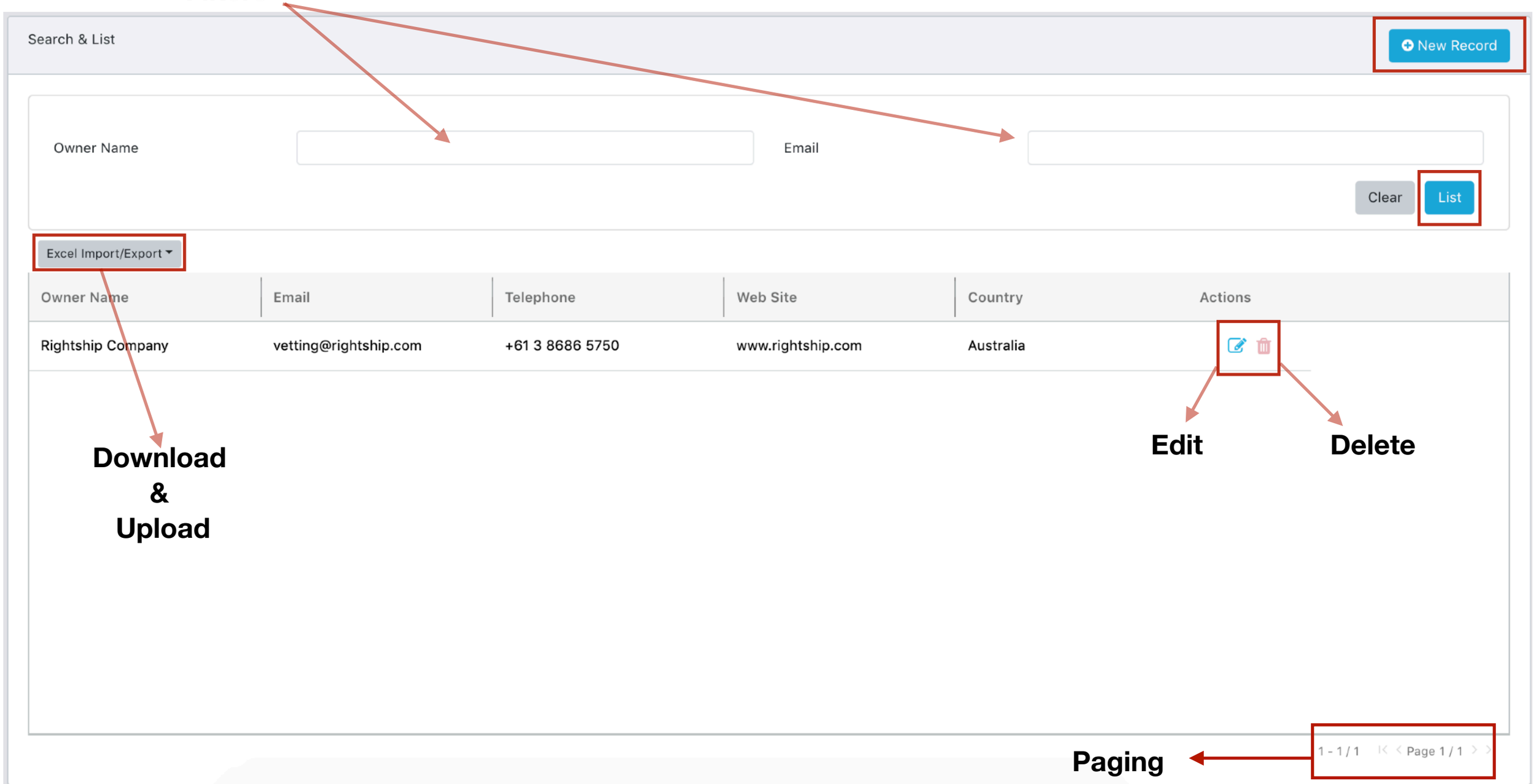
Frontend / Management Items



Frontend / Generated Page

This is the raw view of “Owner” page after creation.

It is fully functional: you can insert, update, delete, get or list



Frontend / JSON based render

If you prefer; there is a simple, human-readable JSON format to render/change UI screens

(1) From Table

Column Name	#	Data type	Length	Precision	Scale	Identity	Collation	Not Null
vesselId	1	int4		10				☑
imoNumber	2	varchar	10	10			default	☑
vesselName	3	varchar	100	100			default	☑
owner	4	int4		10				☑
homePort	5	int4		10				☑
flag	6	int4		10				☑
grossTonnage	7	int8		19				☐
yearOfBuilt	8	int4		10				☐
lengthOverall	9	int4		10				☐
maxSpeed	10	numeric		5	2			☐
description	11	text					default	☐
vesselPicture	12	text					default	☐
vesselType	13	int4		10				☑

(2) To JSON

Vessel.ts

entities > Vessel.ts > type

```ts
import { IType, ComponentType, Visibility, CaseStyles, typeConfigWrapper } from '../common/typeConfig';
import { statusFormatter, dateFormatter } from '../common/common';
import { getLocalizedText } from '../common/localizationManager';
import { Regexes } from '../common/validations';
import Constants from '../common/constants';

const { TABLE, FORM, FILTER, BG_FILTER, BG_FORM, FK_FILTER, FK_FORM } = Visibility;

let type: IType = {
  vesselId: {
    label: "Vessel Id",
    isPrimaryId: true,
    typeKey: "vessel",
    typeInd: ComponentType.NUMERIC_INPUT
  },
  imoNumber: {
    label: "Imo Number",
    typeInd: ComponentType.FORM_CONTROL,
    visibility: [FORM, TABLE, FILTER],
    valRules: {
      minLength: 1,
      maxLength: 10
    }
  },
  vesselName: {
    label: "Vessel Name",
    typeInd: ComponentType.FORM_CONTROL,
    visibility: [FORM, TABLE],
    valRules: {
```

(3) Raw GUI *(JSON is transformed to React JS)*

Dashboard / Vessel

Search & List

New Record

Vessel Title

Imo Number *		Vessel Name *	
Owner *	Choose	Home Port *	Choose
Flag *	Choose	Gross Tonnage	
Year Of Built		Length Overall	
Max Speed		Description	
Vessel Picture		Vessel Type *	Choose

Save

Frontend / Page Edit

Let's make
some fast changes
to Vessel *(even w/o knowing React JS)*

```
let group1: IGroup = { title: "Vessel Meta-data",  columnSize: { all: 4} };
let group2: IGroup = { title: "Details",  columnSize: { all: 4} };
let group3: IGroup = { title: "Picture",  columnSize: { all: 4} };

let type: IType = {
  vesselId: {
    label: "Vessel Id",
    isPrimaryId: true,
    typeKey: "vessel",
    typeInd: ComponentType.NUMERIC_INPUT
  },
  imoNumber: {
    label: "IMO Number",
    typeInd: ComponentType.FORM_CONTROL,
    visibility: [FORM, TABLE],
    valRules: {
      minLength: 1,
      maxLength: 10
    },
    group: group1
  },
  vesselName: {
    label: "Vessel Name",
    typeInd: ComponentType.FORM_CONTROL,
    visibility: [FORM, TABLE, FILTER],
    valRules: {
      minLength: 1,
      maxLength: 100
    },
    group: group1,
    forceCaseTo: CaseStyles.UPPER_CASE
  },
  vesselType: {
    label: "Vessel Type",
    typeInd: ComponentType.DROPDOWN,
    visibility: [FORM, FILTER],
    optionConfig: {
      listUrl: `${Constants.ApiURL}/vesselType/list`,
      getValue: (item) => '@{vesselTypeId}',
      getLabel: (item) => '@{typeName}',
      filterBy: (type, inputText) => ({
        Criteria:
        {
          vesselTypeId: type.vesselType.value || 0,
        },
      }),
    },
    valRules: { minLength: 1 },
    group: group1
  },
```

Define 3 groups

Change label

Place in group1

Make the text
upper case instantly

```
  yearOfBuilt: {
    label: "Year Of Built",
    typeInd: ComponentType.NUMERIC_INPUT,
    visibility: [FORM, TABLE],
    valRules: {
      minValue: 1500,
      maxValue: 2019
    },
    group: group2,
    labelPosition: LabelPositions.ABOVE_INPUT,
    customProps: {
      thousandSeparator: ''
    }
  },
  lengthOverall: {
    label: "Length Overall (mt)",
    typeInd: ComponentType.NUMERIC_INPUT,
    visibility: [FORM],
    group: group2,
    labelPosition: LabelPositions.ABOVE_INPUT
  },
  maxSpeed: {
    label: "Max Speed (mile/h)",
    typeInd: ComponentType.NUMERIC_INPUT,
    visibility: [FORM],
    customProps: {
      decimalPrecision: 2
    },
    group: group2,
    labelPosition: LabelPositions.ABOVE_INPUT
  },
```

Set min & max values

Place label above

Place in group2

Set decimal precision

```
  description: {
    label: "Description",
    typeInd: ComponentType.TEXT_AREA,
    visibility: [FORM],
    group: group2,
    customProps: { rows: 5},
    labelPosition: LabelPositions.ABOVE_INPUT
  },
  vesselPicture: {
    label: "Vessel Picture",
    typeInd: ComponentType.FILE_UPLOADER,
    visibility: [FORM],
    group: group3,
    labelPosition: LabelPositions.NONE,
    customProps: {
      mode: "base64"
    },
  }
```

Component type
to Text Area

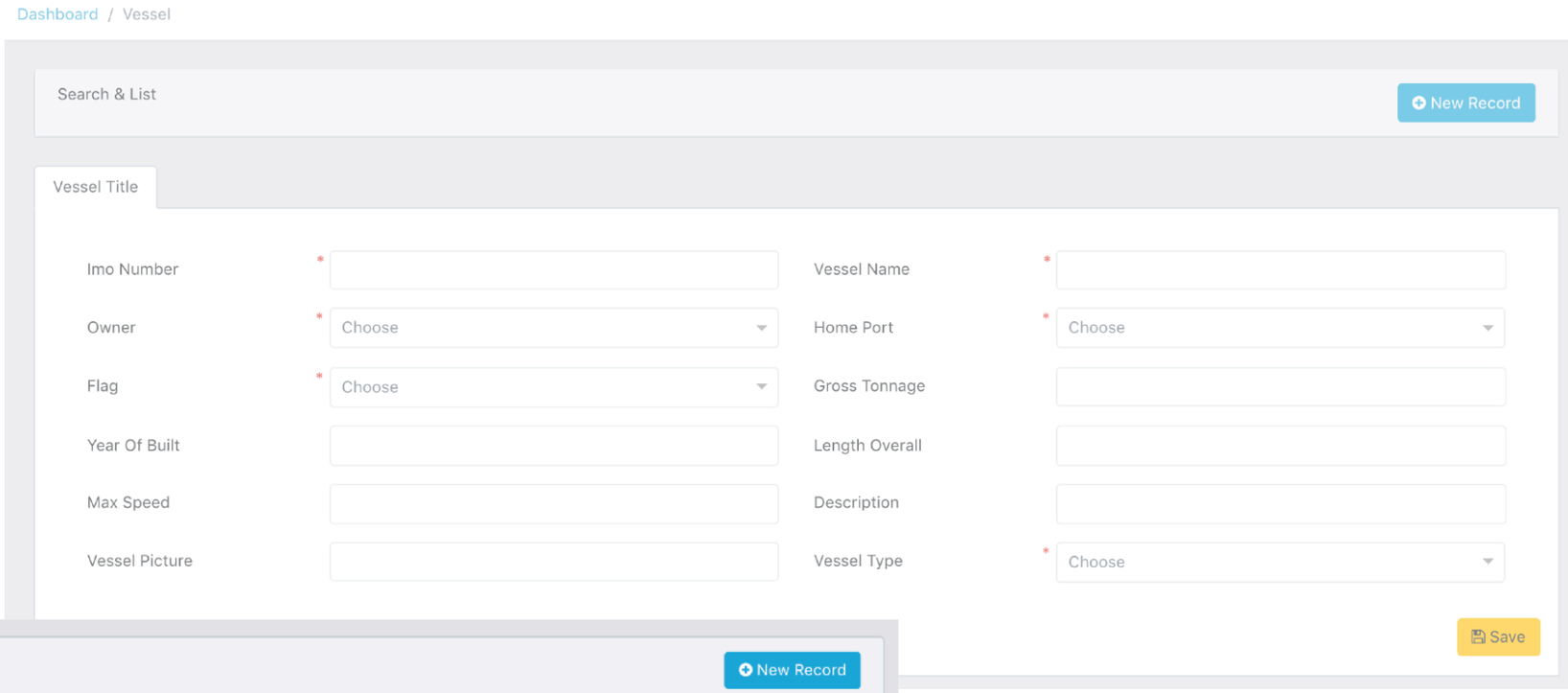
Component type
to File Uploader

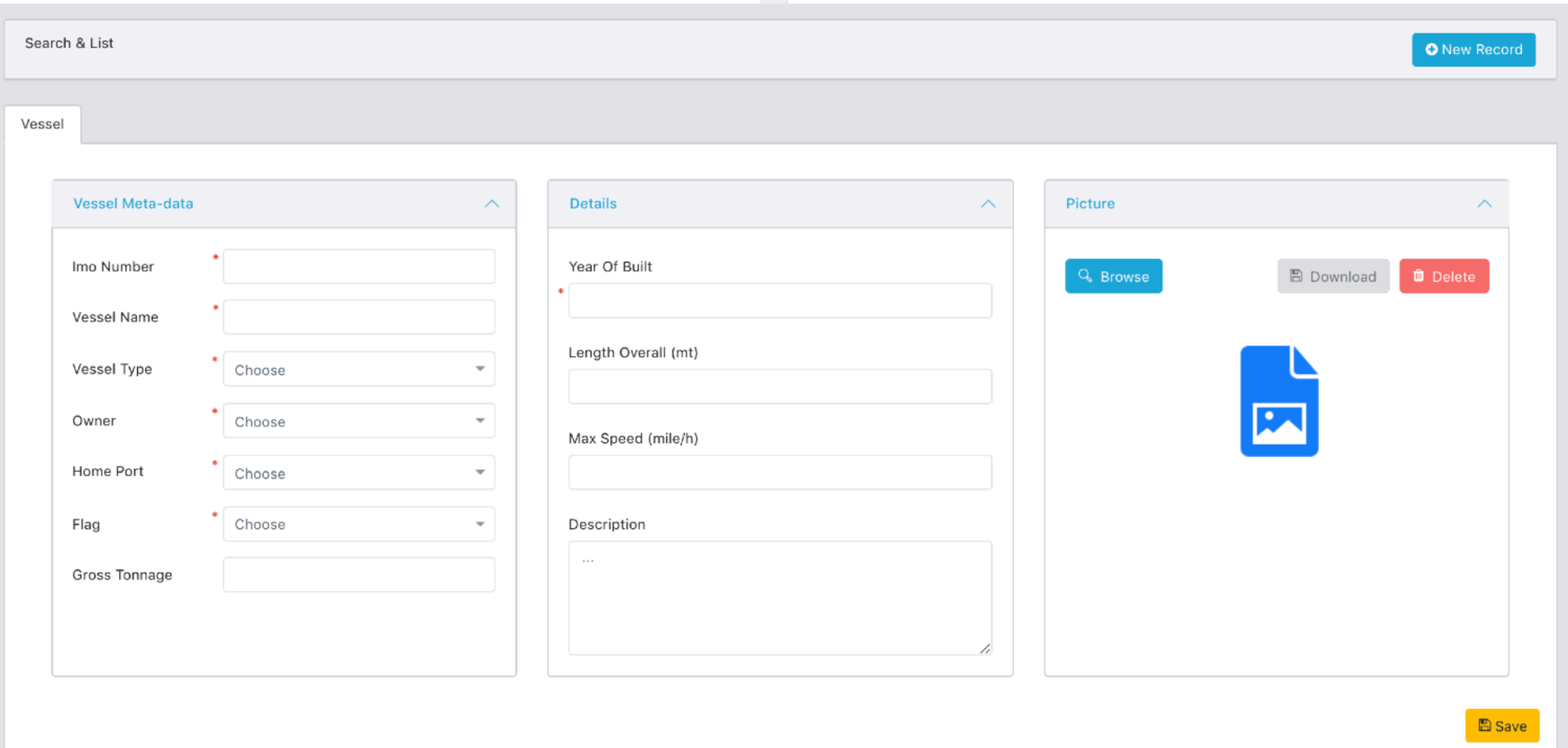
Send value as base64

Frontend / The magic happens

In 2 (two) minutes, without coding

Before





After

Frontend / Vessel page edited

Vessel

Vessel Meta-data

Imo Number: 9648714

Vessel Name: PRELUDE

Vessel Type: Offshore Support Vessel

Owner: Rightship Company

Home Port: Choose

Field cannot be empty

Flag: Australia

Gross Tonnage: 499.167

Details

Year Of Built: 2022

This field must be equal or less than 2019

Length Overall (mt)

Max Speed (mile/h)

Description

Current position is 13.78501 S / 123.31407 E on Nov 12, 2019 21:44 UTC.Vessel PRELUDE (IMO: 9648714, MMSI: 503000101) is a Offshore Support Vessel built in 2017 and currently sailing under the flag of Australia. Current destination of PRELUDE is BROWSE BASIN AU and the

Picture

Browse | Download | Delete

vessel.jpeg (35.4 KB)

Save

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