

Technical Manual

IT ASSET WEB APPLICATION

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1 TABLE OF CONTENTS

1.	Goal	2
2.	Purpose	2
3.	Outcome	2
4.	Tools.....	2
5.	Database Diagram	2
6.	UML Diagram	3
7.	API Endpoints	4
7.1	Asset Controller	4
7.2	Dashboard Controller	5
8	Unit Test.....	5

1. GOAL

The goal of this project is to deliver the test project to Tawazea IT Team.

2. PURPOSE

The purpose of this project is to devolve web application for IT Asset using web technology.

3. OUTCOME

The expected outcome of this project is to deliver fully functional running application.

4. TOOLS

Database: MS SQL 2019

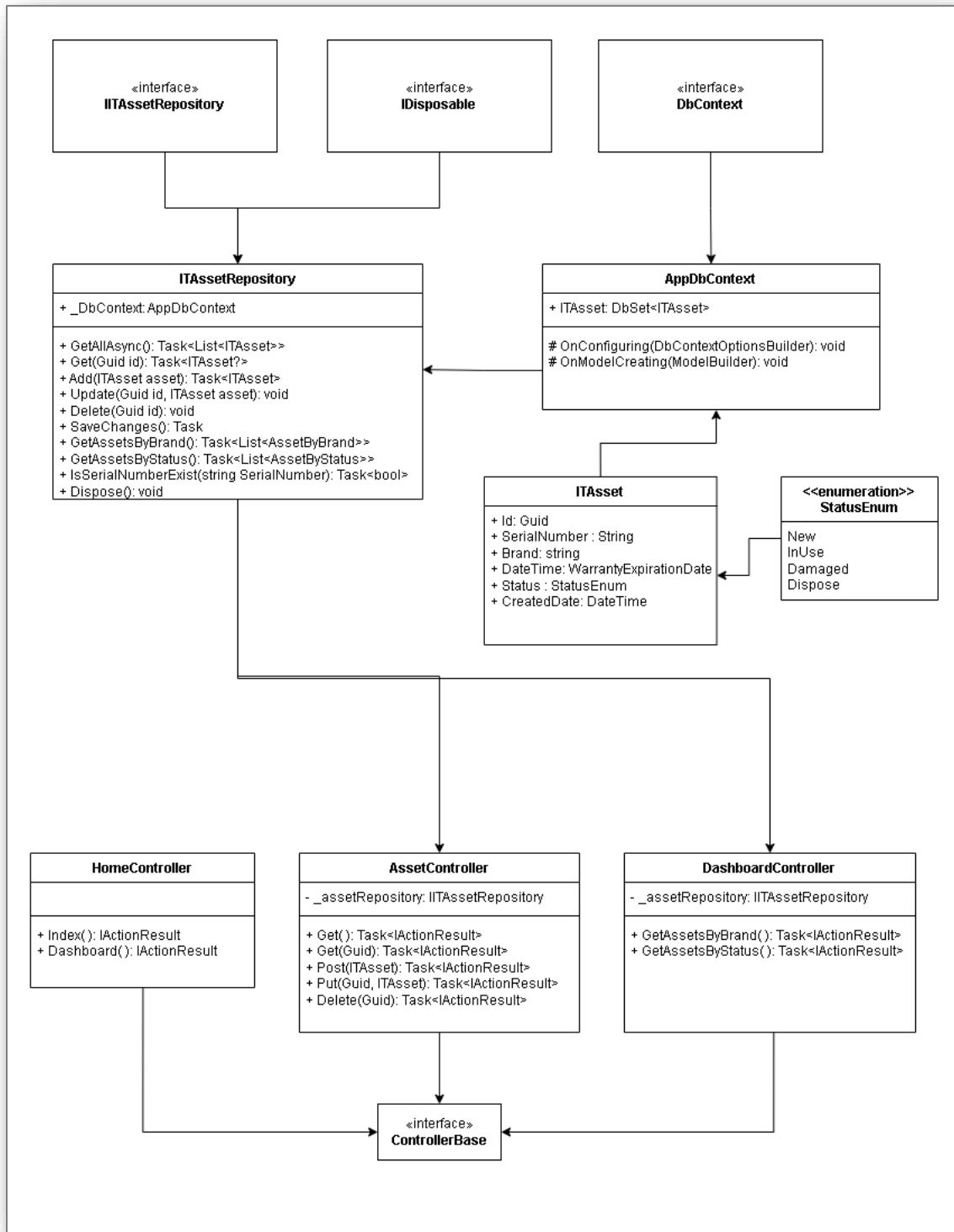
Backend: ASP.NET Core 8, GIT source control

Frontend: JQuery, Javascript, bootstrap, AG-Grid, Highcharts, HTML , CSS

5. DATABASE DIAGRAM

ITAssets	
PK	<u>Id : uniqueidentifier</u>
	Brand : nvarchar(128)
	SerialNumber : nvarchar(128)
	WarrantyExpirationDate : datetime2(7)
	Status : nvarchar(128)
	CreatedDate : datetime2(7)

6. UML DIAGRAM



7. API ENDPOINTS

7.1 ASSET CONTROLLER

7.1.1 Get all Assets.

Request URL: api/asset/

Request Method: "GET"

Request Body: NA

Response: List<ITAsset>

Note: maximum number of assets 500 per one request.

7.1.2 Get Asset by Id

Request URL: api/asset/{Id:Guid}

Request Method: "GET"

Request Body: NA

Response: ITAsset

7.1.3 Add Asset

Request URL: api/asset/

Request Method: "Post"

Request Body: ITAsset

Response: ITAsset

7.1.4 Delete Asset

Request URL: api/asset/{Id:Guid}

Request Method: "DELETE"

Request Body: NA

Response: NA

7.1.5 Edit Asset

Request URL: api/asset/{Id:Guid}

Request Method: "PUT"

Request Body: ITAsset

Response: ITAsset

7.2 DASHBOARD CONTROLLER

7.2.1 Get Assets by Brand

Request URL: api/Dashboard
 Request Method: "GET"
 Request Body: NA
 Response: List<AssetByBrand>
 Note: maximum number of assets 500 pre one request.

7.2.2 Get Assets by Status

Request URL: api/Dashboard
 Request Method: "GET"
 Request Body: NA
 Response: List<AssetByStatus>
 Note: maximum number of assets 500 pre one request.

8 UNIT TEST

Unit Test of two modules (Unit Test Asset Controller, Unit Test Dashboard Controller)

Test Explorer