HMA TEST PROJECT

JEONG HONG MIN

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**Project Environment**

**Back-end:** ASP.NET Core 3.1, EF Core 3.1

**Front-end:** React.js, Redux-Saga, SCSS, Bootstrap, Kendo React UI, Typescript

**Database:** MS-SQL

**Attached Script File**

* HMA\_Generated\_Scripts.sql
* Create\_Table\_Version
* Create\_Table\_File
* Create\_Table\_Version\_File\_Mapping
* Create\_Table\_VersionType

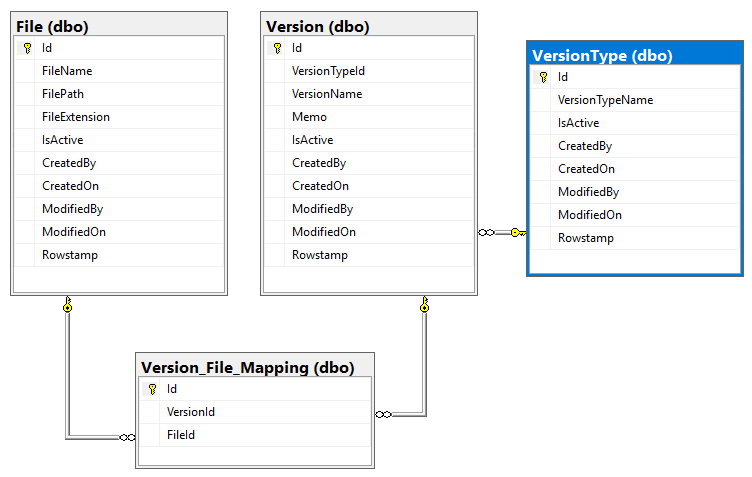
**Source File**

* Github

<https://github.com/hmin5015/HMA>

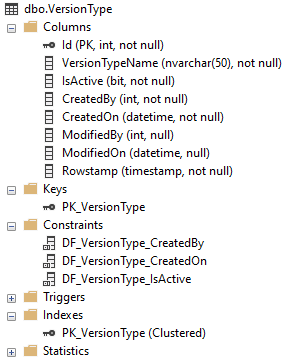
**Database Setup**

**Diagram**

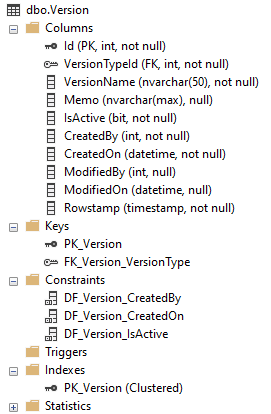
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**Tables**

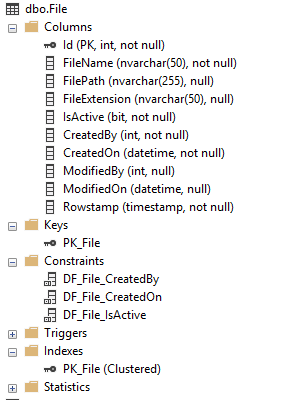
**VersionType:** The table that manages version types



**Version:** The table that manages version

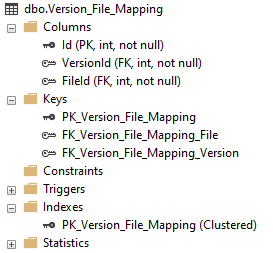
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**File:** The table that manages file



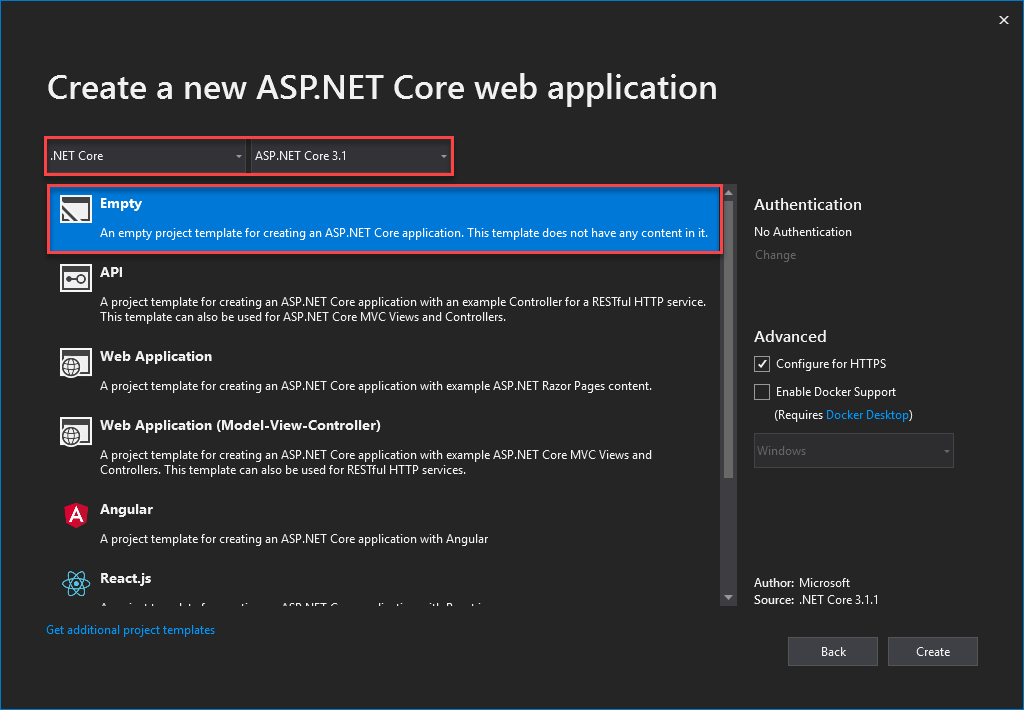
**VersionFileMapping:**

The mapping table that links the version table to the file table

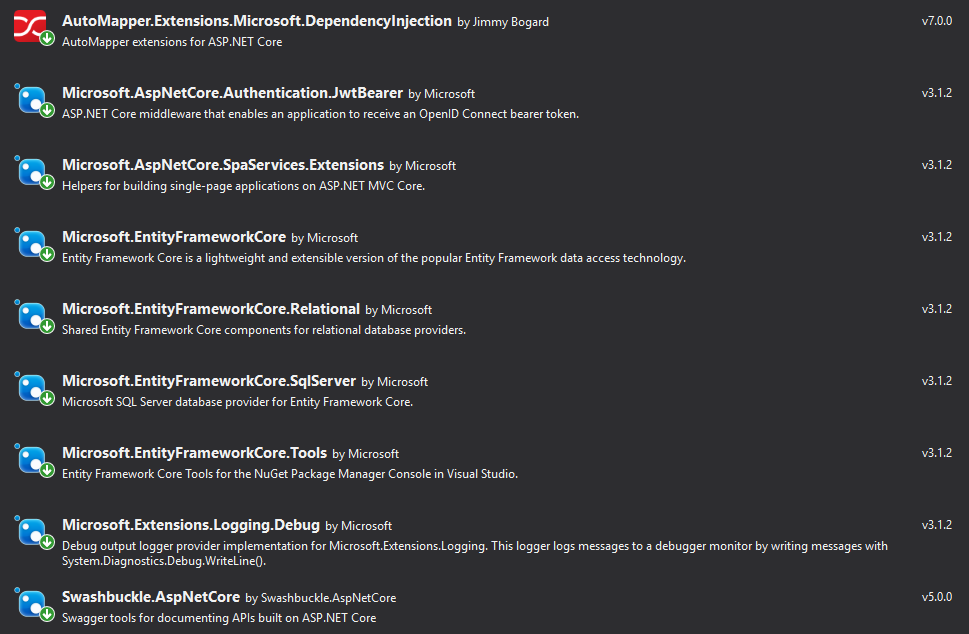


**Project (Back-end)**

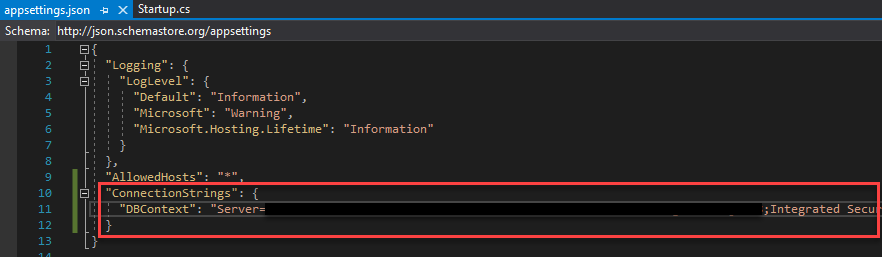
Create a new empty ASP.NET Core web application.



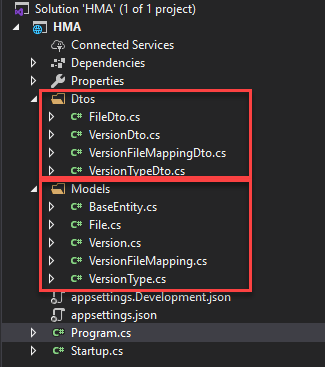
Install NuGet package



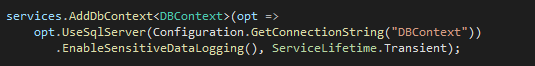
Modified appsettings.json to add dbcontext (Database connection string)

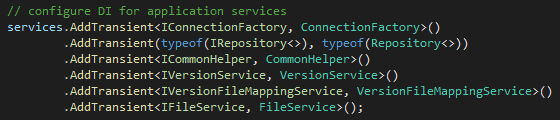


Added Models and Dtos folder and files

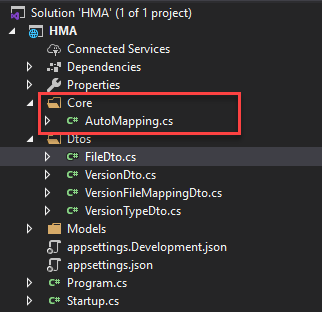


Startup.cs page setup



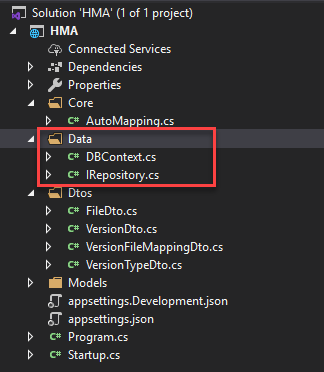


Added Core folder and AutoMapper.cs for mapping

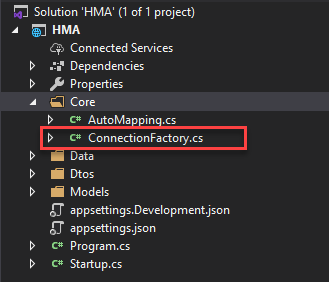


Add Data

* DBContext.cs
* IRepository.cs



Add ConnectionFactory.cs to manage DB connection



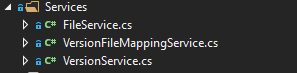
Added controllers page

* FileController.cs
* VersionController.cs



Added services

* FileService.cs
* VersionFileMappingService.cs
* VersionService.cs



**Project (Front-end)**

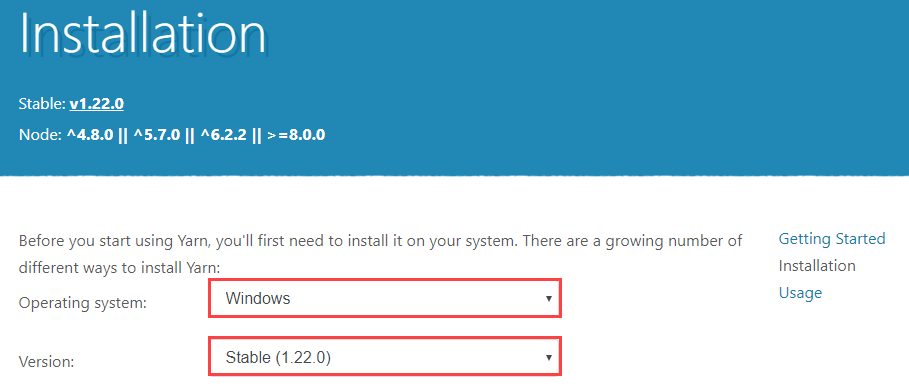
1. Install node.js

URL - <https://nodejs.org/ko/download/>



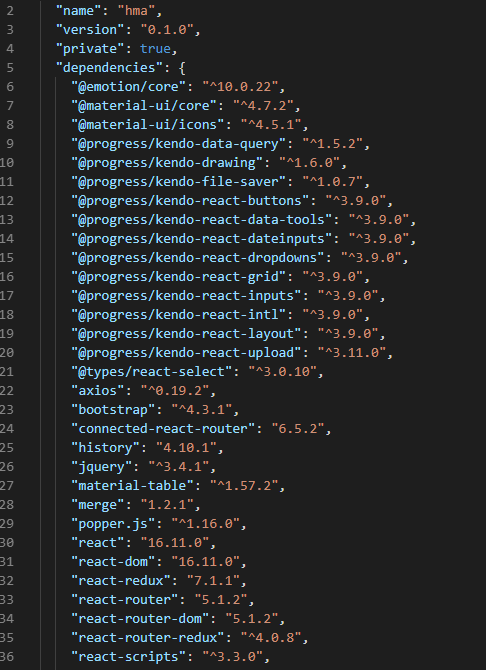
1. Install Yarn

URL – [https://classic.yarnpkg.com/en/docs/install/#windows-stable](https://classic.yarnpkg.com/en/docs/install/%23windows-stable)



Install Package.json

* Kendo-React-ui
* Axios
* TypeScript
* Redux-saga

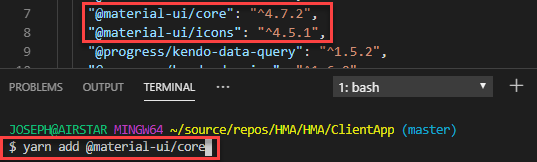


Install Material UI

* Visual Studio Code – Add Material UI with command as below

Ex) Yarn add @material-ui/core

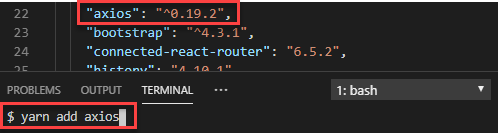
Ex) Yarn add @material-ui/icons

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Install Axios

* Visual Studio Code – Add Axios with command as below

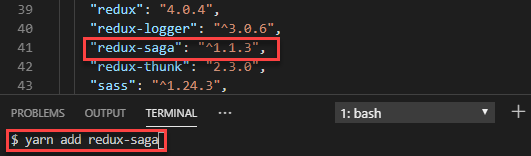
Ex) Yarn add axios



Install Redux-Saga

* Visual Studio Code – Add Redux-Saga with command as below

Ex) Yarn add redux-saga



Add modules

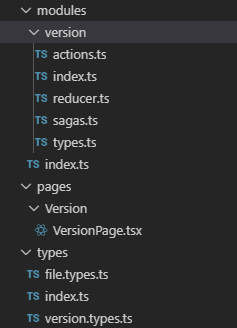
* Redux-Saga, Reducer, Actions, Types

Added pages

* Version\VersionPage.tsx

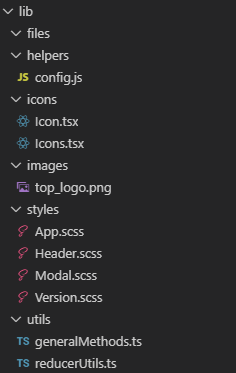
Added types

* file.types.ts
* version.types.ts

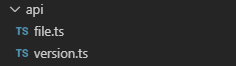


Added lib

* Helpers, icons, images, styles, utils



Add api folder and files



Add components, containers

