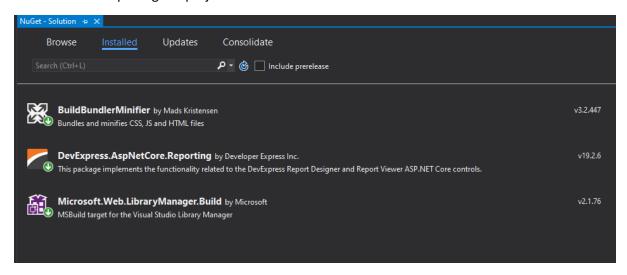
How add DevExpress Reporting to ASP.NET Core 3 Project

1. Install below package to project



2. Add 'package.json' on project, with below data

```
{
    "name": "asp.net",
    "version": "1.0.0",
    "license": "MIT",
    "private": true,
    "dependencies": {
        "bootstrap": "^4.3.1",
        "cldrjs": "^0.5.0",
        "devextreme": "19.2-next",
        "devexpress-richedit": "19.2-next",
        "@devexpress/analytics-core": "19.2-next",
        "devexpress-reporting": "19.2-next",
        "globalize": "^1.3.0",
        "jquery-ui-dist": "^1.12.1"
    }
}
```

3. Add 'bundleconfig.json' on project, with below data

```
"outputFileName": "wwwroot/css/thirdparty.bundle.css",
"inputFiles": [
     "node_modules/jquery-ui-dist/jquery-ui.min.css",
"node_modules/bootstrap/dist/css/bootstrap.min.css",
     "node_modules/devextreme/dist/css/dx.common.css", "node_modules/devextreme/dist/css/dx.light.css"
],
"minify": {
  "enabled": false,
  "-ddustRelativePar
     "adjustRelativePaths": false
 }
   "outputFileName": "wwwroot/css/viewer.part.bundle.css",
  "inputFiles": [
"node_modules/@devexpress/analytics-core/dist/css/dx-analytics.common.css",
     "node_modules/@devexpress/analytics-core/dist/css/dx-analytics.light.css", "node_modules/devexpress-reporting/dist/css/dx-webdocumentviewer.css"
],
"minify": {
    "enabled": false,
    "adjustRelativePar
     "adjustRelativePaths": false
   "outputFileName": "wwwroot/css/designer.part.bundle.css",
     inputrleS : [
"node_modules/devexpress-richedit/dist/dx.richedit.css",
"node_modules/@devexpress/analytics-core/dist/css/dx-querybuilder.css",
"node_modules/devexpress-reporting/dist/css/dx-reportdesigner.css"
],
"minify": {
  "enabled": false,
  "adjustRelativePaths": false
  "outputFileName": "wwwroot/js/thirdparty.bundle.js",
  "inputFiles": [
   "node_modules/jquery/dist/jquery.min.js"
     "node_modules/jquery-ui-dist/jquery-ui.min.js",
"node_modules/knockout/build/output/knockout-latest.js",
    "node_modules/knockout/build/output/knockout-latest
"node_modules/bootstrap/dist/js/bootstrap.min.js",
"node_modules/cldrjs/dist/cldr.js",
"node_modules/cldrjs/dist/cldr/event.js",
"node_modules/cldrjs/dist/cldr/supplemental.js",
"node_modules/cldrjs/dist/cldr/unresolved.js",
"node_modules/globalize/dist/globalize/message.js",
"node_modules/globalize/dist/globalize/message.js",
"node_modules/globalize/dist/globalize/message.js",
     "node_modules/globalize/dist/globalize/number.js",
"node_modules/globalize/dist/globalize/currency.js",
      "node modules/globalize/dist/globalize/date.js",
     "node_modules/devextreme/dist/js/dx.all.js",
     "node_modules/ace-builds/src-min-noconflict/ace.js",
"node_modules/ace-builds/src-min-noconflict/ext-language_tools.js",
     "node_modules/ace-builds/src-min-noconflict/theme-dreamweaver.js", "node_modules/ace-builds/src-min-noconflict/theme-ambiance.js",
      "node_modules/ace-builds/src-min-noconflict/snippets/text.js"
    "minify": {
  "enabled": false
   "sourceMap": false
  "outputFileName": "wwwroot/js/viewer.part.bundle.js",
   "inputFiles": [
     "node_modules/@devexpress/analytics-core/dist/js/dx-analytics-core.min.js", "node_modules/devexpress-reporting/dist/js/dx-webdocumentviewer.min.js"
   "minify": {
    "enabled": false
 },
"sourceMap": false
   "outputFileName": "wwwroot/js/designer.part.bundle.js",
      "node_modules/jszip/dist/jszip.min.js"
     "node_modules/devexpress-richedit/dist/dx.richedit.min.js",
     "node\_modules/@devexpress/analytics-core/dist/js/dx-querybuilder.min.js", "node\_modules/devexpress-reporting/dist/js/dx-reportdesigner.min.js" \\
"minify": {
  "enabled": false
 },
"sourceMap": false
```

4. Add 'libman.json' on project, with below data

```
{
  "version": "1.0",
  "defaultProvider": "cdnjs",
  "libraries": [
    {
      "provider": "filesystem",
      "library": "node_modules/devextreme/dist/css/icons/",
      "destination": "wwwroot/css/icons",
      "files": [
        "dxicons.ttf",
        "dxicons.woff2",
        "dxicons.woff"
      ]
    }
 ]
}
```

- 5. Add folder 'Services' on project
- 6. Add class 'ReportStorageWebExtension.cs' on 'Services' folder, with add in below code on class

```
public class ReportStorageWebExtension1 : DevExpress.XtraReports.Web.Extensions.ReportStorageWebExtension
      readonly string ReportDirectory;
const string FileExtension = ".repx";
      public ReportStorageWebExtension1(IWebHostEnvironment env)
{
            ReportDirectory = Path.Combine(env.ContentRootPath, "Reports");
if (!Directory.Exists(ReportDirectory))
                 Directory.CreateDirectory(ReportDirectory);
      public override bool CanSetData(string url)
{
            // Determines whether or not it is possible to store a report by a given URL.
// For instance, make the CanSetData method return false for reports that should be read-only in your storage.
// This method is called only for valid URLs (i.e., if the IsValidUrl method returned true) before the SetData method is called.
     public override bool IsValidUrl(string url)
            // Determines whether or not the URL passed to the current Report Storage is valid.
// For instance, implement your own logic to prohibit URLs that contain white spaces or some other special characters.
// This method is called before the CanSetData and GetData methods.
      public override byte[] GetData(string url)
            // Returns report layout data stored in a Report Storage using the specified URL. // This method is called only for valid URLs after the IsValidUrl method is called.
                  if (Directory.EnumerateFiles(ReportDirectory).Select(Path.GetFileNameWithoutExtension).Contains(url))
                        return File.ReadAllBytes(Path.Combine(ReportDirectory, url + FileExtension));
                  } throw new DevExpress.XtraReports.Web.ClientControls.FaultException(string.Format("Could not find report '{0}'.", url));
              r
catch (Exception)
                  throw new DevExpress.XtraReports.Web.ClientControls.FaultException(string.Format("Could not find report '{0}'.", url));
      public override Dictionary<string, string> GetUrls()
{
            // Returns a dictionary of the existing report URLs and display names.
// This method is called when running the Report Designer,
// before the Open Report and Save Report disalogs are shown and after a new report is saved to a storage.
           "*" + FileExtension)
      public override void SetData(XtraReport report, string url)
             // Stores the specified report to a Report Storage using the specified URL.
// This method is called only after the IsValidUrl and CanSetData methods are called.
report.SaveLayoutToXml(Path.Combine(ReportDirectory, url + FileExtension));
      public override string SetNewData(XtraReport report, string defaultUrl)
{
           // Stores the specified report using a new URL.
// The IsValidUrl and CansetData methods are never called before this method.
// You can validate and correct the specified URL directly in the SetNewData method implementation
// and return the resulting URL used to save a report in your storage.
SetData(report, defaultUrl);
return defaultUrl;
```

7. Modify 'Startup.cs' 'ConfigureServices' function like below

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddDevExpressControls();
    services.AddScoped<ReportStorageWebExtension, ReportStorageWebExtension1>();

    services.AddControllersWithViews();

    services.ConfigureReportingServices(configurator => {
        configurator.ConfigureReportDesigner(designerConfigurator => {
            designerConfigurator.RegisterDataSourceWizardConfigFileConnectionStringsProvider();
        });
        configurator.ConfigureWebDocumentViewer(viewerConfigurator => {
            viewerConfigurator.UseCachedReportSourceBuilder();
        });
    });
}
```

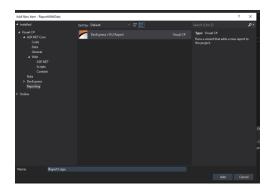
8. Modify 'Startup.cs' 'Configure' function like below

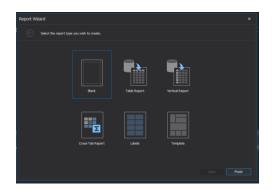
9. Modify 'Views\Shared\ Layout.cshtml' header like below

10. Modify 'Views\Shared_Layout.cshtml' footer like below

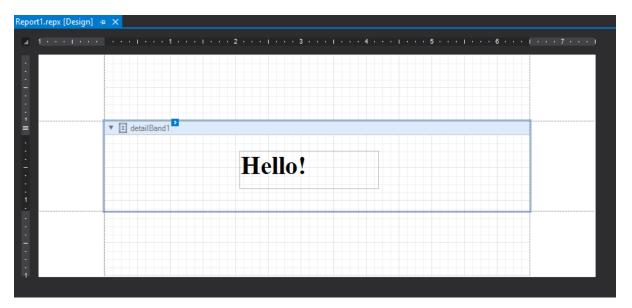
Sample for add Viewer and Designer

- 1. Add folder 'Reports on project (to store all report file)
- 2. Add Blank XtraReport on folder 'Reports'





3. Add hello label on Detail Band



4. Add below two method on 'HomeController' (optional, add sample call)

```
public IActionResult Viewer()
{
    return View();
}

public IActionResult Designer()
{
    return View();
}
```

5. Add view page 'Viewer.cshtml' on 'Views\Home', with below code

```
@using DevExpress.AspNetCore
rel="stylesheet" href="~/css/viewer.part.bundle.css" />
<script src="~/js/viewer.part.bundle.js"></script>

@Html.DevExpress().WebDocumentViewer("DocumentViewer").Height("1000px").Bind("Report1")
```

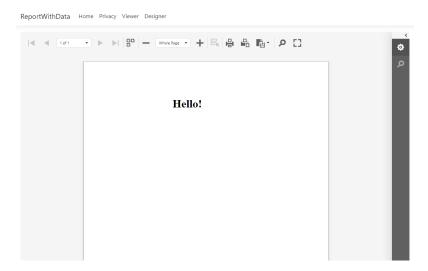
6. Add view page 'Designer.cshtml' on 'Views\Home', with below code

```
@using DevExpress.AspNetCore
<link rel="stylesheet" href="~/css/viewer.part.bundle.css" />
<link rel="stylesheet" href="~/css/designer.part.bundle.css" />
<script src="~/js/viewer.part.bundle.js"></script>
<script src="~/js/designer.part.bundle.js"></script>
<mathref="stylesheet" href="~/css/designer.part.bundle.js"></script>
</mathref="stylesheet" href="~/css/designer.part.bundle.js"></mathref="stylesheet" href="~/css/designer.part.bundle.js"></mathref="stylesheet" href="~/css/designer.part.bundle.js"></mathref="stylesheet" href="~/css/designer.part.bundle.js"></mathref="stylesheet" href="~/css/designer.part.bundle.js"></mathref="stylesheet" href="stylesheet" hr
```

7. Add link on 'Views\Shared_Layout.cshtml'

```
<a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Viewer">Viewer</a>
<a class="nav-link text-dark" asp-area="" asp-controller="Home" asp-action="Designer">Designer</a>
```

8. Test Report Viewer



9. Test Report Designer

