

# RSS Reader Application - ASP.NET Core

## User guide

## 1. Application installation

### 1.1 Setting up the development environment

If you're using MacOS, please follow this page to set up your development environment:  
<https://docs.microsoft.com/en-us/aspnet/core/tutorials/your-first-mac-aspnet>

If you're using Windows, please follow this page:  
<https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-mvc-app/index>

### 1.2 Build and run the application

Once ASP.NET core environment is installed on you computer, restore the dependencies and build the project like following:

- MacOS / Linux users:

```
cd "RSSReader"
dotnet restore
dotnet build (optional, build will also happen with it's run)
dotnet run
```

- Windows users:

Tap F5 to run the app in debug mode or Ctrl-F5 in non-debug mode.

## 2. Using and modifying the Application

### 2.1 Using the application

To add a feed to the page, pick-up a RSS feed URL, and paste it in the “RSS Feed URL” field, choose what you want to display with the checkboxes (Title, Content, Link, publication date), and then click on “Add / Refresh” button. You can add as many feed as you want, and also remove them using the “Remove” button in the feed title list. The articles will be sorted by publication date.

## 2.2 Architecture explanation for code modification / re-use

The application is based on a simple Model View Component architecture:

- The model: Models\RSSFeedItem.cs, contains the channels list, the articles list, and other display properties.
- The view: Views\Home\Index.cshtml, contains Html.
- The Controller: Controllers\HomeController.cs contains the logic to retrieve the RSS feeds with the URL and parse them (xml parsing). For more details about the RSS format, please refer to the following page: [http://www.w3schools.com/xml/xml\\_rss.asp](http://www.w3schools.com/xml/xml_rss.asp)

Screen shot:

