

Project Structure

The project is separated into 3 abstract layers to maintain modularity and singularity of the application:

1. CenturyAirline - Umbraco backend instance source files
2. CenturyAirline.Core - Core business logic of the umbraco instance is separated into class library
3. CenturyAirline.FED - angular frontend project

Umbraco Membership

In the Umbraco backend, 2 member types are defined mainly:

1. User - Website users are associated to this Member group
2. Admin - Website admins are associated to this Member group

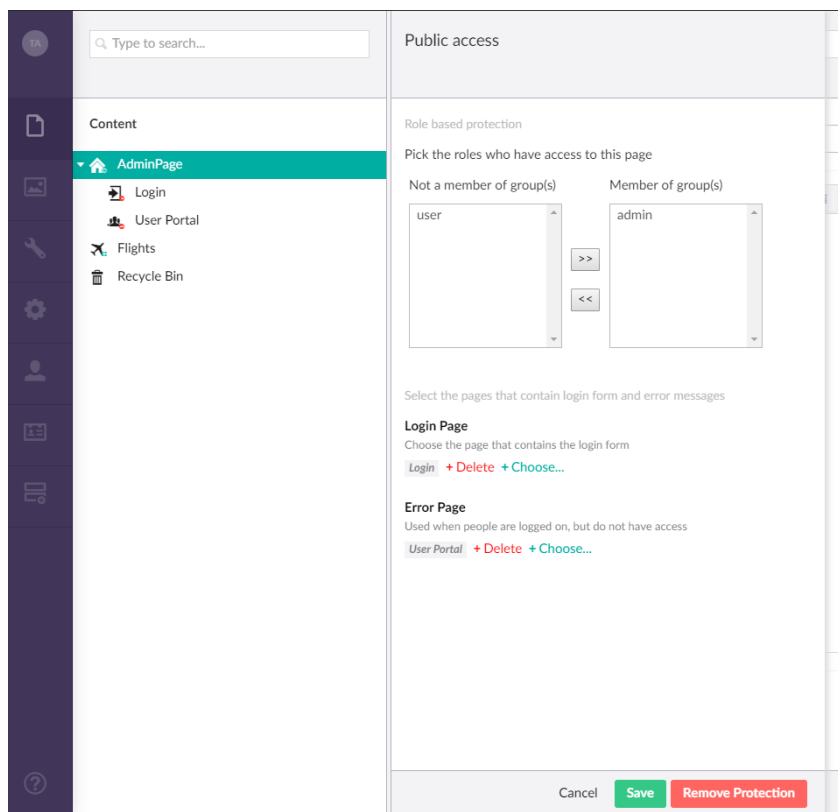
Content Restriction

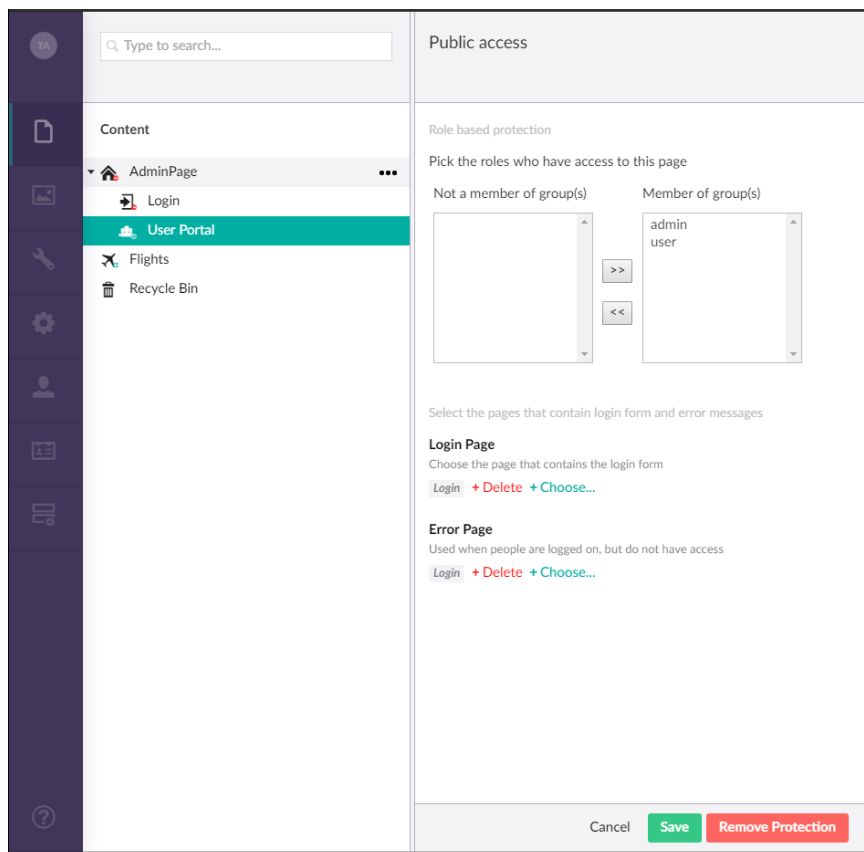
Umbraco content restriction is implemented by page level access permissions and Umbraco web API Authorisations

Admin page (root) is accessible only for members belonging to group “Admin”

User-portal page is accessible only for members belonging to group “User” & “Admin”

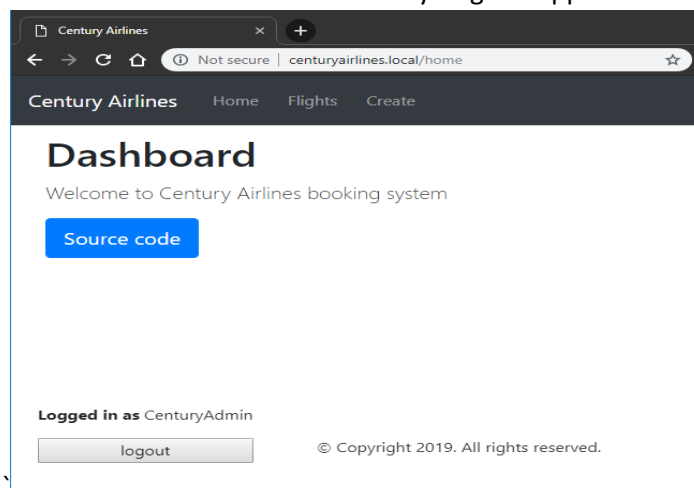
Unauthenticated users will be redirected to Custom login page. This umbraco setup is as follows:





The custom Login page template post form to custom Umbraco Auth surface controller, which is an MVC controller that redirects users based on their roles.

The Admin Dashbord is rendered by Angular app as follows:



Century Airlines Home Flights Create

Flight Name
Lufthansa

Flight Number
LK56

Passenger Capacity
232

Departure City
HGF

Flight Start Time
2019-04-18

Arrival City
FFF

Flight End Time
2019-04-18

Flight Description
Enter your flight description

Logged in as CenturyAdmin
Logout

Create Flight

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Angular forms are posted to respective umbraco web api endpoints which performs CRUD operation on the documents. For example, Flight list can be gathered by the angular HTTP services API endpoint:

`/umbraco/api/flightsdata/getflights`

Documents are programmatically created in Umbraco from Angular form submits-

Flights

Child items Info

Create Flight

Name	Sort	Last edited	Created by
Singapore Airlines	0	2019-04-14 18:07	Tiju Abraham
Emirates	1	2019-04-14 18:08	Tiju Abraham

Preview Save and publish

Frontend Build

This project uses Angular CLI version as below. Webpack is configured so that the scripts are bundled and copied to UmbracoCM/Scripts folder.

Angular CLI

Angular CLI: 7.3.8

Node: 10.10.0

OS: win32 x64

Angular: 7.2.13

... animations, common, compiler, compiler-cli, core, forms

... language-service, platform-browser, platform-browser-dynamic

... router

Package	Version

• @angular-devkit/architect	0.13.8
• @angular-devkit/build-angular	0.13.8
• @angular-devkit/build-optimizer	0.13.8
• @angular-devkit/build-webpack	0.13.8
• @angular-devkit/core	7.3.8
• @angular-devkit/schematics	7.3.8
• @angular/cli	7.3.8
• @ngtools/webpack	7.3.8
• @schematics/angular	7.3.8
• @schematics/update	0.13.8
• rxjs	6.3.3
• typescript	3.2.4
• webpack	4.29.0

webpack.config.js generated by the command

ng eject

Forms

Forms use

Bootstrap 4 and jQuery from npm: