

## HalSail FAQ

### What is the technical background to HalSail?

The following are the key technologies used to build HalSail.

#### Server

HalSail runs on a virtual machine hosted in the UK by [Iomart](#) running Windows Server 2016.

The data is held in a SQL Server 2016 database running on the same machine.

#### Server-side programming

HalSail is an [ASP.Net MVC](#) web site programmed in [C#](#). It uses the [Razor view engine](#) and produces [HTML5](#) output.

#### Client-side programming

Pages are written in [HTML5](#) and [CSS3](#) with extensive scripting in [javascript](#) and [jQuery](#). Key jQuery plugins used are [DataTables](#) and [FullCalendar](#).

Much use is made of [Ajax](#) to bring data from the server to the client without replacing the entire page.

Styling is based on [Bootstrap 3](#).

Phones and tablets vary in size and many of the pages in HalSail scale automatically to suit the particular device being used. Formats vary according to the screen width:

- 1200 pixels or greater - full-size laptops and desktop computers
- 992 to 1199 pixels - laptops and many tablets in landscape mode
- 823 to 991 pixels - larger tablets in portrait mode
- 550 to 822 pixels - most tablets in portrait mode and phones in landscape mode
- 400 to 549 pixels - larger phones in portrait mode
- 399 pixels or less - smaller phones in portrait mode

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