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# THEORY 03

Master Detail Demo

# Tabbed Page – demo explained

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There is a variety of ways to navigate through Xamarin.Forms, on which more can be found in your **eBook – chapter 24: Page navigation**. You can find various demo's in this repository to demonstrate different page types and navigation.

In this document, we will explain how to use a **MasterDetailPage**. This page type allows you to create a master detail situation (for more on this, we refer to your theory notes). Before you go through this demo, we advice you to look at the NavigationPage demo.

## Page type(s)

A masterdetail page requires 3 parts:

- A **master page** (**ContentPage**) which contains the master data
- A **detail page** (**ContentPage**) which relies on the master page for detail data
- A **masterdetail page** (**MasterDetailPage**) which does nothing else than connect the master and detail page together.

## How to create a MasterDetail page

*Do NOT create a MasterDetailPage by adding a new item of type MasterDetailPage! This will create 4 items (3 pages and a class), complicating everything more than it should.*

1. **Turn a ContentPage into a MasterDetailPage.** This will do nothing else than connect the master and detail together.
2. **Define your Master page**, which is a ContentPage that contains the master data, **and your Detail page**, which is a ContentPage that contains the detail data.
3. **Refer from MasterDetailPage to Master page and Detail page** from steps 2 and 3.

## Turn a ContentPage into a MasterDetailPage

- Either create new ContentPage (see demo NavigationPage), or change MainPage.xaml.cs
- In your xaml.cs code behind file, inherit from MasterDetailPage instead of ContentPage:

```
public partial class MainPage : MasterDetailPage
```

- In your xaml file: create this structure (for now, we leave Master and Detail empty):

```
<MasterDetailPage xmlns=http://xamarin.com/schemas/2014/forms ... >
  <MasterDetailPage.Master>
    [ ]
  </MasterDetailPage.Master>
  <MasterDetailPage.Detail>
    <NavigationPage>
      <x:Arguments>
        [ ]
      </x:Arguments>
    </NavigationPage>
  </MasterDetailPage.Detail>
</MasterDetailPage>
```

## Define your Master and Detail page

- Create a **ContentPage** for both.
- Give both of them a value for the **Title** property.

- Give them their desired content (most of the time, both will contain a listview).
- Example:

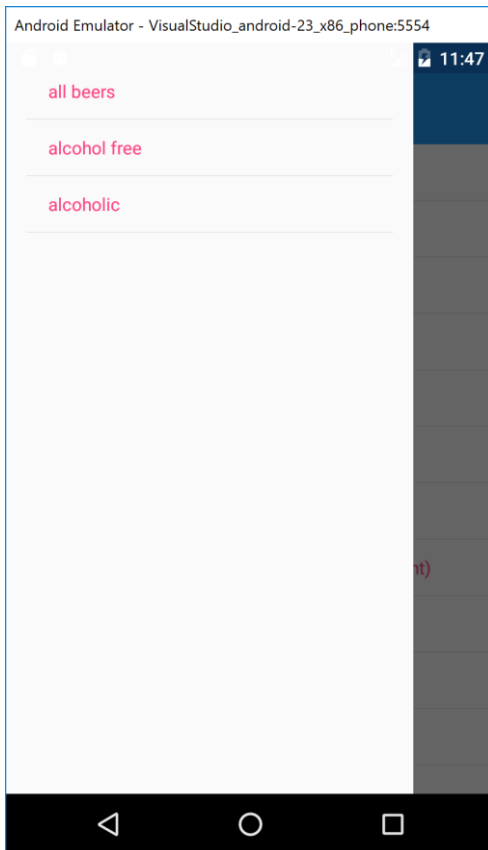


Figure 2: Master page - filters for detail page

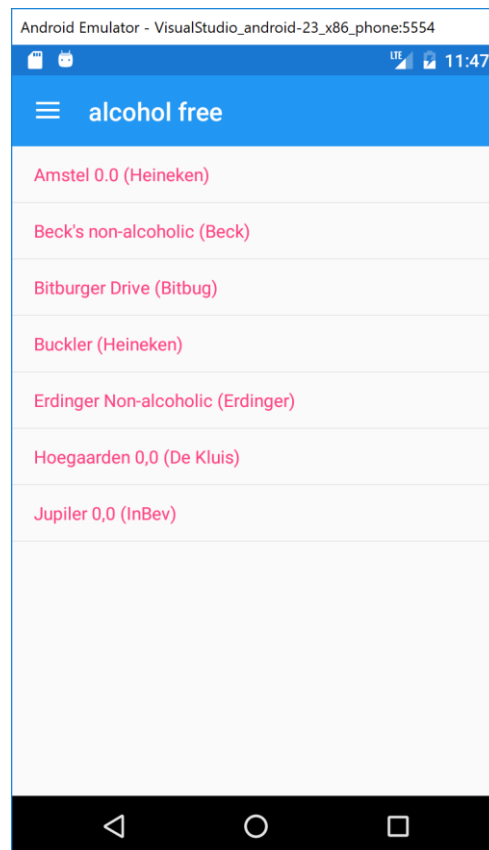


Figure 1: Detail page - show beers filtered on what was chosen in the Master page

## Refer from MasterDetailPage to Master & Detail page

- We will now go back to our MasterDetailPage (step 1) and fill the gaps of Master and detail.
- For the example: looking at the above screenshots, you can find 3 parts:
  - The **master page** (ContentPage) which is a sort of filter menu
  - The **detail page** (ContentPage) which relies on the master page
  - The **masterdetail page** (MasterDetailPage) which does nothing else than connect the master and detail page together. It looks like this:

```
<MasterDetailPage xmlns="http://xamarin.com/schemas/2014/forms"
  xmlns:view="clr-namespace:Demo_MasterDetail.View" ... >
  <MasterDetailPage.Master>
    <view:MasterPage x:Name="masterPage" />
  </MasterDetailPage.Master>
  <MasterDetailPage.Detail>
    <NavigationPage>
      <x:Arguments>
        <view:DetailPage x:Name="detailPage" />
      </x:Arguments>
    </NavigationPage>
  </MasterDetailPage.Detail>
</MasterDetailPage>
```

```

        </MasterDetailPage.Detail>
    </MasterDetailPage>

```

- In this case, the master and detail page are literally called 'MasterPage.xaml' and 'DetailPage.xaml', but you can obviously choose whichever name you like.
- Both pages are inside a 'View' folder in the .NET Standard project, as you can see in the referencing of the 'view' namespace.
- Instead of referencing to a different page, you can also set the content of the page(s) inside the MasterDetailPage.x tags, as you can see being done for the master page in the demo:

```

<?xml version="1.0" encoding="utf-8" ?>
<MasterDetailPage xmlns="http://xamarin.com/schemas/2014/forms"
    xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
    xmlns:local="clr-namespace:Demo_MasterDetail"
    xmlns:view="clr-namespace:Demo_03_MasterDetail.View"
    x:Class="Demo_03_MasterDetail.MainPage">

    <MasterDetailPage.Master>
        <!--master page: list of filters (all, alcohol free, alcoholic)-->
        <ContentPage Title="Beer filters">
            <ListView Margin="16" x:Name="lvwFilters" ItemSelected="LvWFilters_ItemSelected" />
        </ContentPage>
    </MasterDetailPage.Master>

    <MasterDetailPage.Detail>
        <NavigationPage>
            <x:Arguments>
                <!--reference to the detail page-->
                <view:DetailPage_Overview x:Name="detailPage" />
            </x:Arguments>
        </NavigationPage>
    </MasterDetailPage.Detail>
</MasterDetailPage>

```

- In the code behind of the masterpage (in this case: mainpage.xaml.cs), you connect the master and detail page together:

```

private void LvWFilters_ItemSelected(object sender, ...)
{
    string filter = lvwFilters.SelectedItem as string;

    if (filter == null)
        return; //nothing is selected; ignore

    detailPage.FilterBeerList(filter); //filter details based on masterpage

    IsPresented = false; //HIDE the menu
}

```

- Notice the `IsPresented` property of a `MasterDetailPage`, that hides the menu again (otherwise it just stays hovered in front of your detailpage).

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