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Creating Moodle Mobile remote themes

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What will we do?

1. Learn how to run Moodle Mobile in a browser.
2. Create a Mobile theme progressively.
3. Upload and configure this new theme in Moodle.
4. Learn some tricks to improve how the theme is downloaded.

Moodle Mobile in the browser

Several ways to do that:

1. Advanced:

https://docs.moodle.org/dev/Setting_up_your_development_environment_for_Moodle_Mobile_2

2. Simple:

Download the latest build, and open it in your browser:

<https://github.com/moodlehq/moodlemobile-phonegapbuild>

Moodle Mobile in the browser

You can add your custom CSS via the browser inspection tools:

The image shows a browser's developer tools interface. On the left, the HTML structure is expanded to the <head> section. A <style id="mobilecssurl">...</style> tag is highlighted in blue. A context menu is open over this tag, showing options: "Add Attribute", "Force Element State", "Edit as HTML", and "Copy as HTML".

```
<!DOCTYPE html>
<html>
  <head>
    <style type="text/css">...</style>
    <meta charset="utf-8">
    <script>...</script>
    <meta name="viewport" content="initial-scale=1, maximum-scale=1, use
    <meta http-equiv="Content-Security-Policy" content="default-src * fi
    <title>My courses</title>
    <link href="build/mm.bundle.css" rel="stylesheet">
    <script src="lib/ionic/js/ionic.bundle.js"></script>
    <script src="cordova.js"></script>
    <script src="lib/angular-translate/angular-translate.js"></script>
    <script src="lib/angular-translate-loader-partial/angular-translate-
    <script src="lib/ngCordova/dist/ng-cordova.js"></script>
    <script src="lib/ydn.db/jsc/ydn.db-dev.js"></script>
    <script src="lib/angular-md5/angular-md5.js"></script>
    <script src="lib/angular-aria/angular-aria.js"></script>
    <script src="lib/moment/min/moment-with-locales.js"></script>
    <script src="lib/jszip/dist/jszip.js"></script>
    <script src="build/mm.bundle.js"></script>
    <style id="mobilecssurl">...</style>
  </head>
  <body ng-app="mm" class="grade-a pla
    <ion-nav-view class="view-containe
      <ion-side-menus enable-menu-with
    </ion-nav-view>
    <script>...</script>
```

On the right, the 'Styles' panel is open, showing the 'Computed' styles for the selected element. The styles include:

- element.style { }
- *, mm.bundle.css:2525 *:before, *:after {
-webkit-box-sizing: border-box;
border-box;
-moz-box-sizing: border-box;
box-sizing: border-box;
}
- user agent stylesheet style {
display: none;
}
- Pseudo ::before element
*, mm.bundle.css:2525 *:before, *:after {
-webkit-box-sizing: border-box;
border-box;
-moz-box-sizing: border-box;
box-sizing: border-box;
}
- Pseudo ::after element

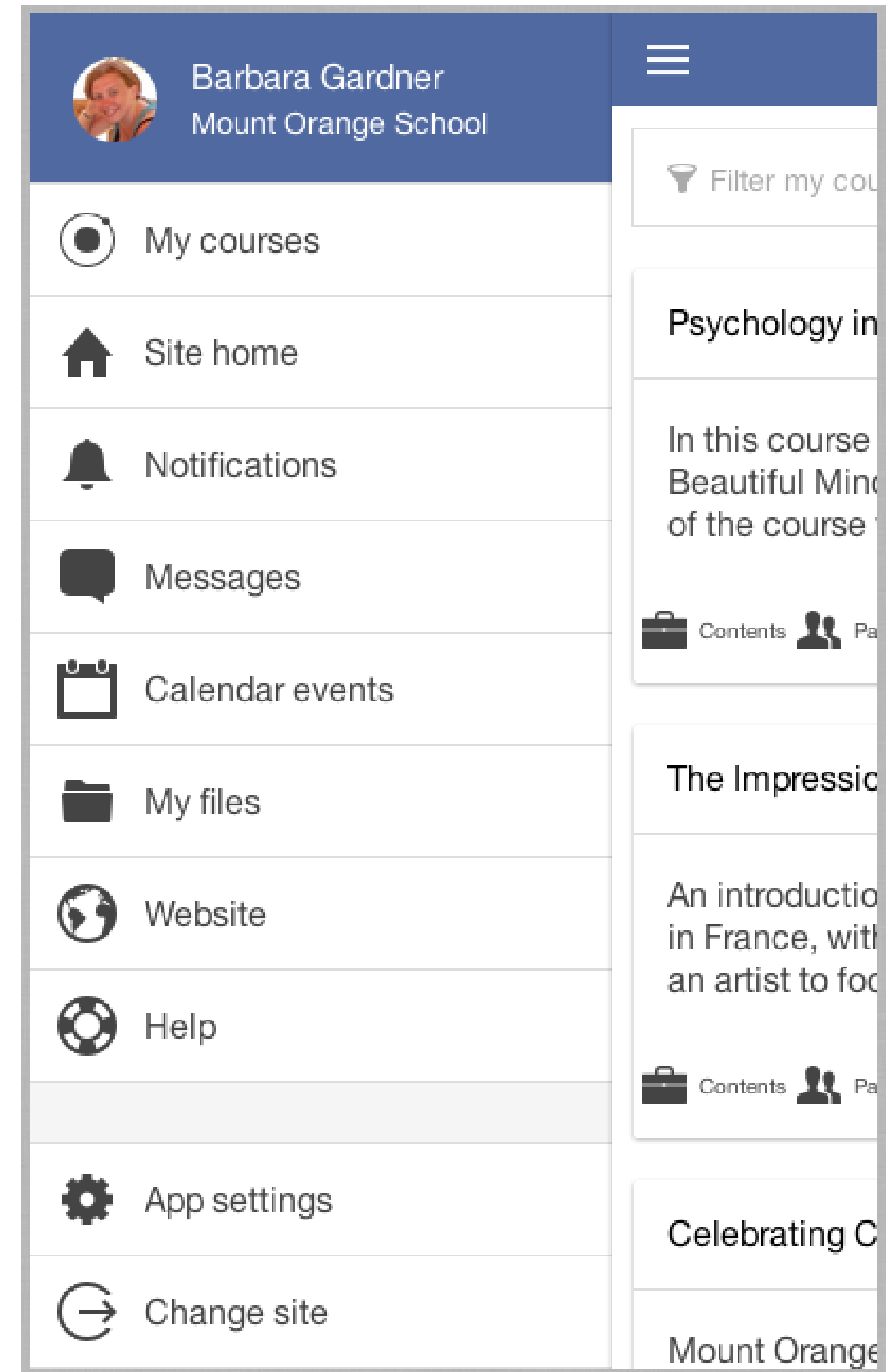
Mobile theme

Change the top bars:

```
.bar-header {  
    background-color: #5069A1;  
}
```

```
<script src=".../moodlecssurl">  
<style id="mobilecssurl">  
    .bar-header {  
        background-color: #5069A1;  
    }  
</style>  
</script>
```

There are different styles for the menu and main content bar, you may use different colors.



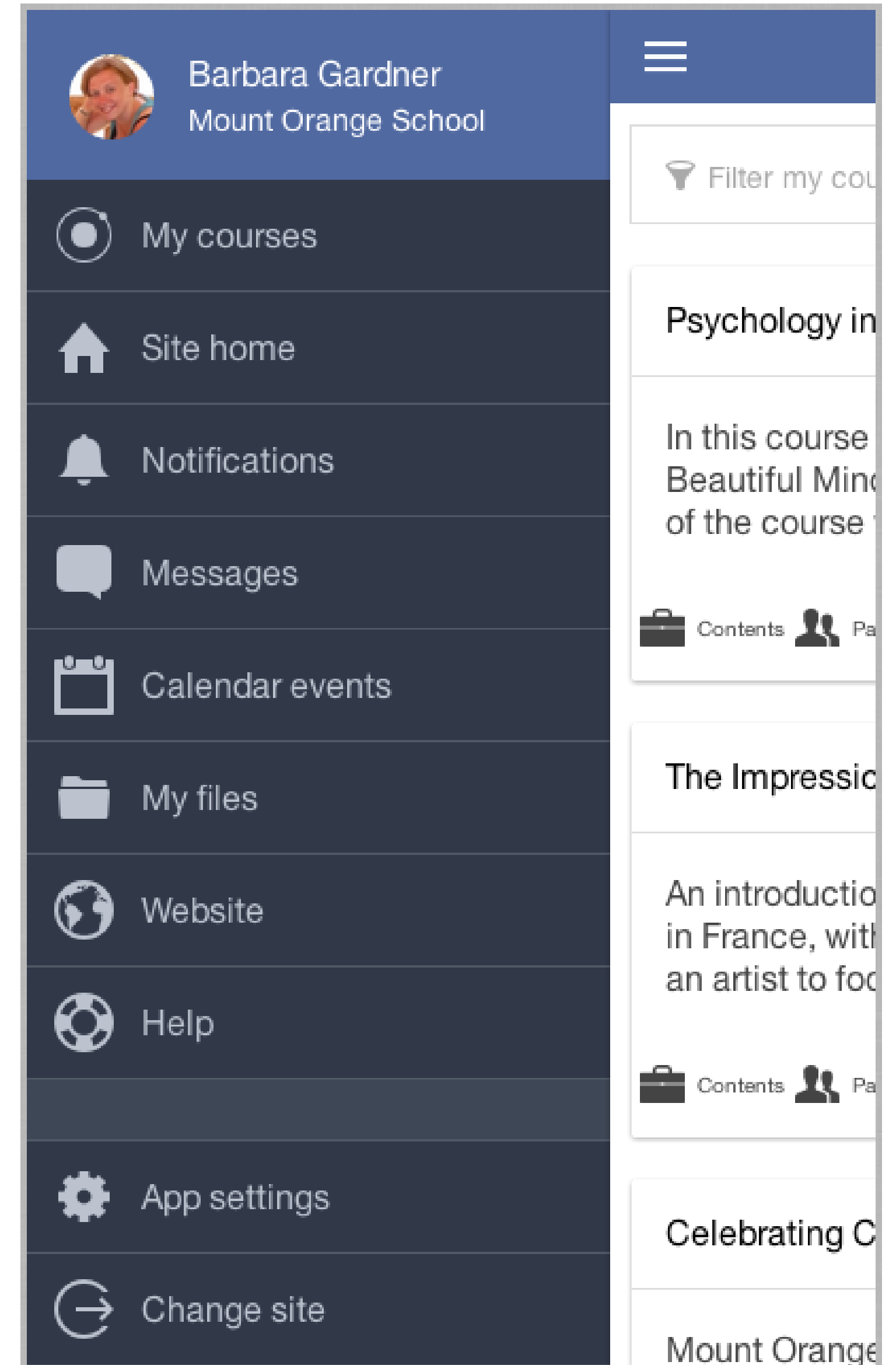
Mobile theme

Change the side menu elements:

```
ion-side-menu li .item {  
  background-color: #313848;  
  border-color: #4F5865;  
  color: #BCC3CF;  
}
```

```
ion-side-menu li.item {  
  border-color: #4F5865;  
}
```

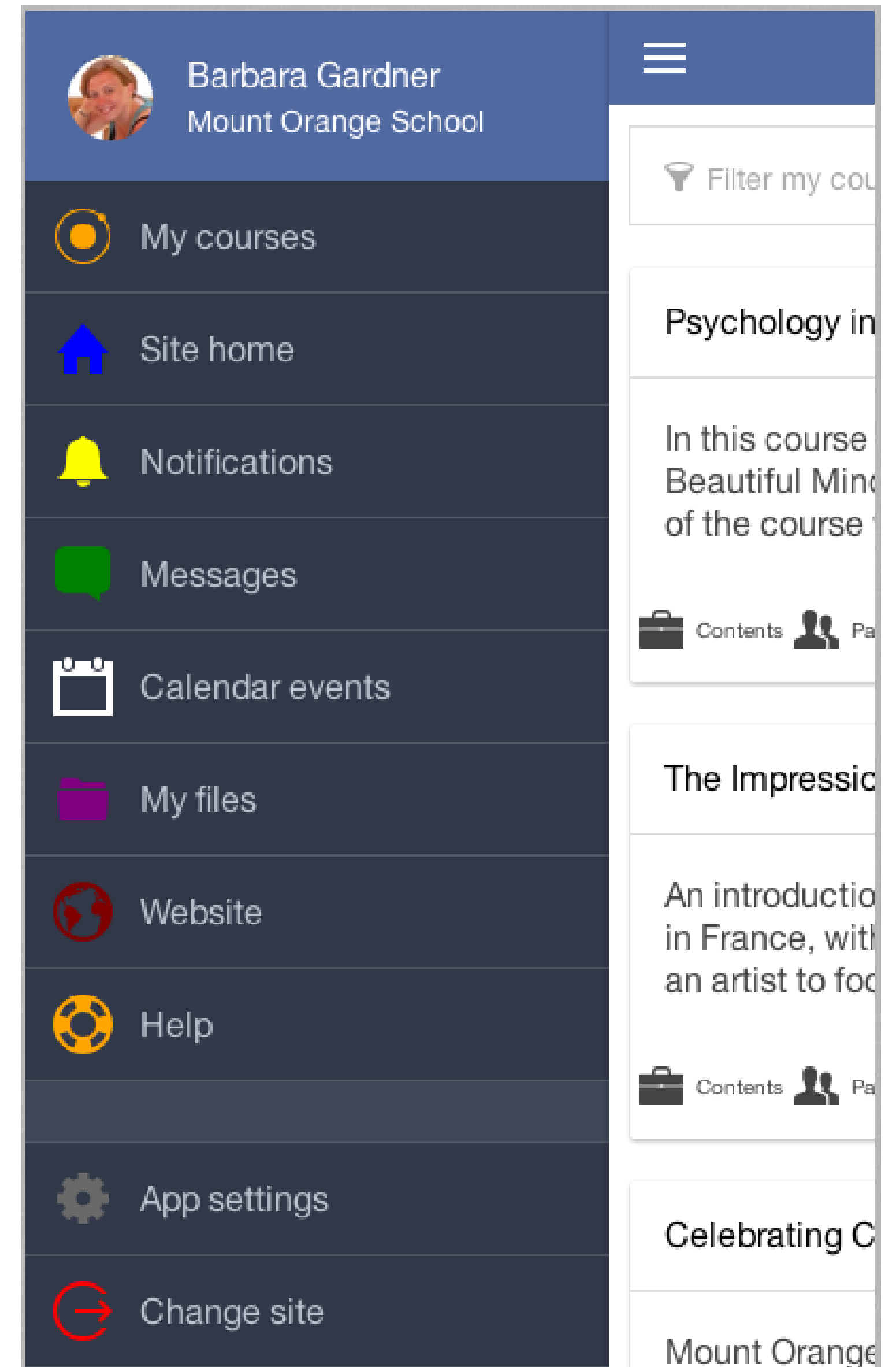
```
ion-side-menu li.item.item-divider {  
  background-color: #3E4755;  
}
```



Mobile theme

Change icon colors:

```
.ion-ionic {  
  color: orange;  
}  
.ion-home {  
  color: blue;  
}  
.ion-ios-bell {  
  color: yellow;  
}  
.ion-chatbox {  
  color: green;  
}  
.ion-calendar {  
  color: white;  
}  
.ion-folder {  
  color: purple;  
}  
.ion-earth {  
  color: maroon;  
}  
.ion-help-buoy {  
  color: orange;  
}  
.ion-gear-b {  
  color: dimgray;  
}  
.ion-log-out {  
  color: red;  
}
```



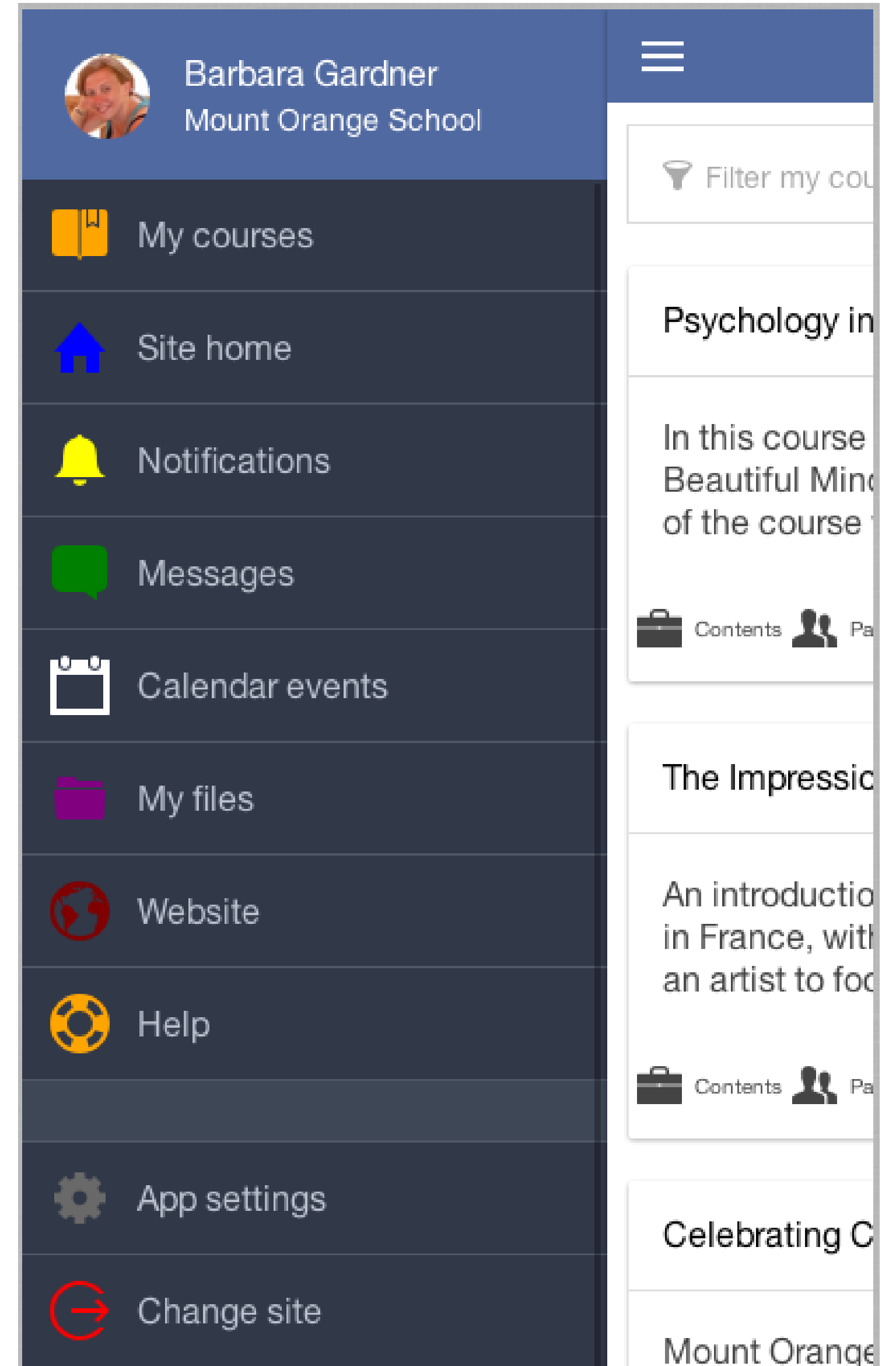
Mobile theme

Change icons:

```
.ion-ionic:before {  
  content: "\f3ea";  
}
```

For changing icons just search for the unicode tag near the icon name in:

/www/lib/ionic/fonts/ionicons.svg (open it using a text editor)



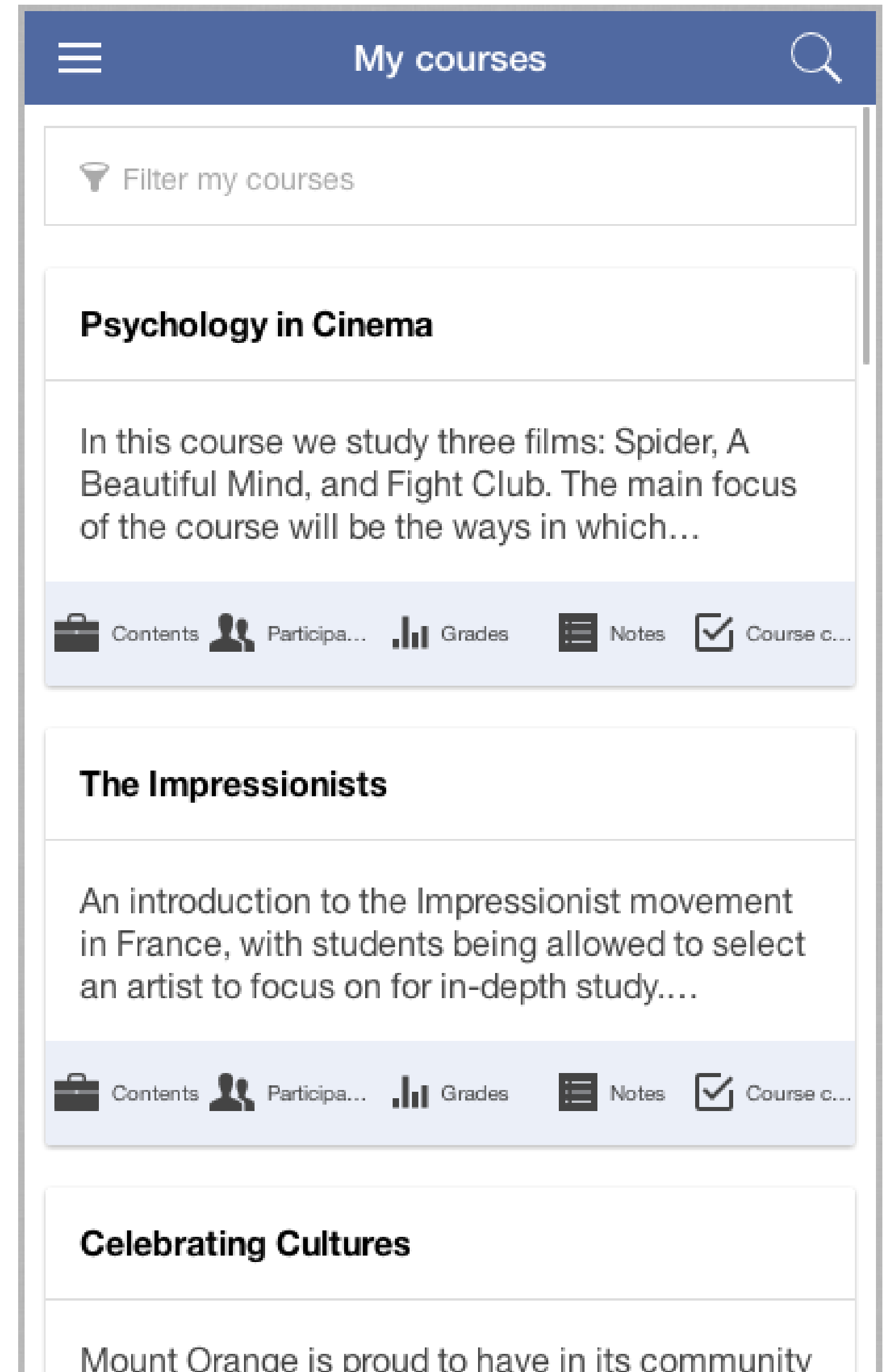
Mobile theme

Change other elements in pages inside the app:

Every page has a different and unique base class, you can find it in the `<ion-content>` element.

Courses list page: `.mm-site_mm_courses`

```
.mm-site_mm_courses .tabs-icon-left {
  background-color: #EBEFF8;
}
.mm-site_mm_courses section h2 span {
  font-weight: bold;
}
```



Upload the theme

Upload and configure the theme in Moodle:

- Upload the file containing the CSS code into your theme directory: `theme/mytheme/mobileapp.css`
- In Site administration -> Plugins -> Web Services -> Mobile

CSS
mobilecssurl

Default: Empty

A CSS file to customise your mobile app interface.

Minify your CSS

There are lots of online tools for doing that, use Google :)

- <https://cssminifier.com/>
- <http://www.cleancss.com/css-minify/>

Optionally, you can force the file to be sent gzipped (compressed):

1. Rename the file from .css to .php

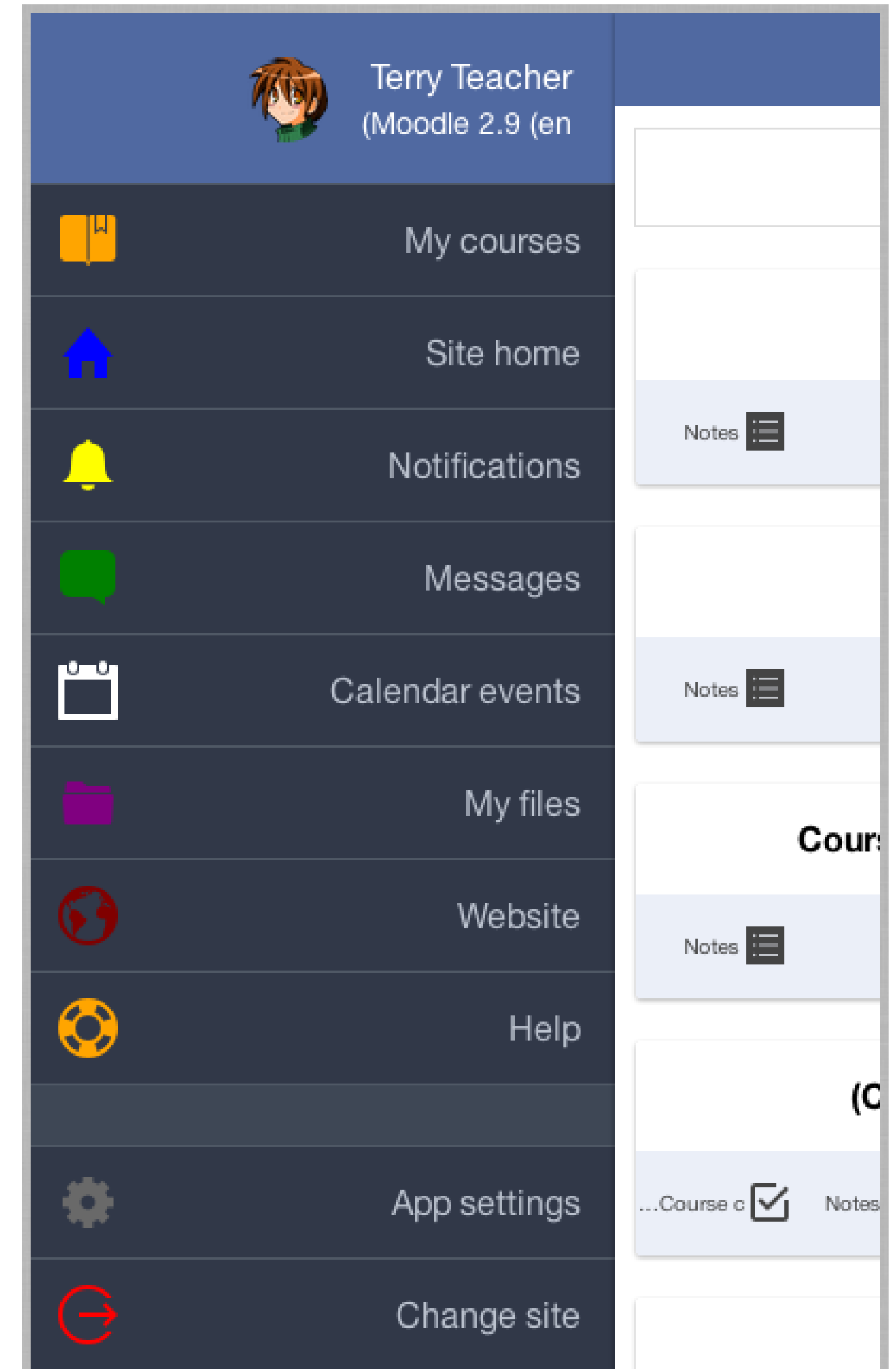
2. Add these lines at the beginning of the file:

```
<?php  
if(!ob_start("ob_gzhandler")) ob_start();  
?>
```

css code goes here...

This is not fully supported in the app but it can be partially achieved applying this style into the body tag:

```
body {  
    direction: rtl;  
    text-align: right;  
}
```





Thank you

Community: moodle.org
Commercial: moodle.com
[@moodle](https://twitter.com/moodle)
