**Background**

When developing websites and web applications today, one of the challenges is that the result not only works, and is useful on a computer, but consideration must also be given to the fact that users also extensively browse websites on mobile phones. With the introduction of smartphones such as “iPhone”, which contains a built in web browser, the mobile browsing of websites was introduced and developers started talking about mobile webpages. Mobile webpages are websites that are designed for, and easy to use when browsing from a mobile device. This type of design, amongst other measurements, includes a reduction of the material on a desktop based website in order for the user to more easily perceive and navigate through the information. However, a great deal of websites are not available in a mobile format, and when user browse these sort of webpages they are required to zoom in and out frequently in order to push buttons, follow links or read text because these type of web elements are too small when not customized for the mobile format.

There exist different techniques for developing mobile suitable websites. One way to express a desktop website in a mobile browser is to create a new webpage and style it according to the size of mobile phone screens. This strategy of mobile website development requires two different websites, one for desktop and one for mobile devices. Consequently it is necessary to detect whether visiting users browse from a desktop computer or a mobile phone, and redirect to the appropriate website.

Another way to implement a mobile suitable website based on a desktop website is to apply the principles of responsive design.