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**CERTIFICATE**

This is to certify that the project entitled “**Device Independent Responsive System**” is a bonafide work of A.ABHINAY (1210309504), M.KEERTHI (1210309536), Ch.DEEPIKA (1210309513), and G.PHANINDRA (1210309519) carried out in partial fulfillment for the award of degree of Bachelor of Technology in Computer Science and Engineering, GITAM Institute of Technology, GITAM University, Visakhapatnam during the academic year 2012-2013 under my guidance. This project work is original and not submitted earlier for the award of any degree or associate ship of any other University /Institution.

**Head of the Department** **Project guide**

DR. G. APPA RAO MR.M.V.RAJSEKHAR VARMA

Professor Assistant Professor

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**DECLARATION**

We (A.ABHINAY, M.KEERTHI, Ch.DEEPIKA, G.PHANINDRA) hereby declare that the project report entitled “**Devive Independent Responsive System**” is an original and authentic work done in the Department of Computer Science and Engineering, GITAM Institute of Technology, GITAM UNIVERSITY, Rushikonda, Visakhapatnam, submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering.

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**ABSTRACT**

In this cutting edge of internet technology, a huge extent of users are accessing internet on mobile devices, tablets and other portable internet devices along with varying screen sizes and capabilities. However, it is increasingly difficult to create a website which is visually appealing and accessible on all devices. **Responsive Web design** is the solution. It is a conception for amalgam of JavaScript and CSS3 to build a flowing website design which is capable to contract, expand, remove or rearrange with user's screen size accordingly and become accessible on all internet devices. It facilitates web-designers to create a website incorporating flexible images as well as flowing layouts which automatically accommodate with user's browser ensuring the website look, consistency, usability regardless of device’s screen size. However, eliminates the necessity of creating website for distinct devices.

It essentially indicates that a web site is crafted to use Cascading Style Sheets 3 media queries, an extension of the @media rule with fluid proportion-based grids (which use percentages and EMs instead of pixels) to adapt the layout to the viewing environment and probably also use flexible images. As a result, users across a broad range of devices and browsers will have access to a single source of content, laid out so as to be easy to read and navigate with a minimum of resizing, panning, and scrolling.

This Technology is been applied on a website bearing the URL (<http://www.gitam.edu>). Cascading style sheets 3 media queries are used on these web pages to enhance the layout and view for all the screen resolutions and bind the external style sheets calls with some conditional clauses. Depending upon the device with which a request is made to a web server the media query responds with the appropriate style sheet. This conditional based application of style sheets over a web page creates an effect of responsiveness.

Responsive Web Design facilitates you to create a flexible and comprehensive user experience. In consequence, it enables to maintain websites in a very easy and affable way and abandon the need to develop specific mobile version or device-specific site for the websites