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Issues and Challenges Related to Power Consumption considerations in Web Browsing on Smartphones

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Abstract: In recent days Smartphone became most popular devices which are used for many applications. Through the Smartphone web browsing can be done and also the webpage can be downloaded, the downloading of the webpage consumes more power. To avoid more power consumption this project implements two novel technologies to save power. First technique is the computation sequence of the web browser. When the browser loads a webpage, it first runs the computations that will generate new data transmissions and retrieve those data from the web server. Then, the web browser can put the wireless radio interface into low power state and release the radio resource, and then run the remaining computations. Second technique is setting a threshold value for the user reading time. When the user reach the threshold limit the power level goes to the low level state. By using these two techniques the power consumed can be saved by 30%. The security objective of this project is to protect trusted services and resources (e.g., those belonging to cellular service providers and device manufacturers) from third party code. This project proposes a set of advance integrity protection rules based upon open mobile operating system environments and application behaviors'.