

### Intern Requirement

No. of students required	1
Preferred Discipline	<ul style="list-style-type: none"><li>• Computer Science/Engineering</li></ul>
Prerequisites/ Skills Required	<ul style="list-style-type: none"><li>• Good understanding of Internet protocols (especially web-based protocols such as HTTP)</li><li>• Familiarity with mark-up languages (HTML, XML) and scripts (Javascript, PHP)</li><li>• Experience in developing web applications will be useful</li></ul>

### Project Details

Title	Understanding of HTML5 Capabilities and APIs
Overview/Background	<p>HTML5 is a language for structuring and presenting content for the World Wide Web (WWW) aimed to improve and extend the markup available for documents. It also aims to do away with plug-ins (such as Adobe Flash) by providing syntactical features such as &lt;video&gt; and &lt;audio&gt; elements.</p> <p>The scripting APIs include offline storage databases, cross-document messaging and geolocation APIs that can provide interoperability implementations and overcome the limitations plaguing its predecessors (HTML 4.01) to make the WWW a lot more interactive to give rise to new possibilities of WWW applications.</p> <p>Although HTML5 is currently still in the drafting stages, some functionalities are already completed and can be implemented. Many of the newer browsers have also implemented support for HTML5. It is therefore interesting to explore what HTML5 can potentially offer and be used.</p>
Objectives/Scope/ Deliverables	<ul style="list-style-type: none"><li>• Understand the capabilities provided by HTML5 through exploration of the W3C's working draft and websites that are already implementing HTML5.</li><li>• Compare HTML5 with the other implementations currently used</li><li>• Explore in detail into the inner workings of HTML5 and implement a simple web service using HTML5</li><li>• Document a detailed report on the above and provide assessment on HTML5, including any issues e.g. privacy concerns</li></ul>
Project Duration	6 months