

### **Online legal case base reasoner**

In Legal environment, lawyers select past law cases that are similar to their client's case and that suggest favourably by convincing the court. In reality, reference to similar cases necessitates going through thousands of past cases, which is very time consuming and tedious task. The quality and correctness of a decision is very much dependent on the number of relevant cases considered. However, this is not addressed to considerable level of satisfactory without using computer-based system. In addressing this issue we have developed a web based legal Case Based Reasoning system. In addressing this issue we have developed a web based legal Case Based Reasoning system. A case based reasoner solves new problems by adapting solutions that were used to solve old problems. The prototype has been designed to emulate the problem solving behavior in one major aspect of Writ in law. The system was developed using CBR shell and Internet technology.

On considering various features, CBR-Works shell was chosen to develop the system. As CBR-Works provided easy server side development and web base integrated facility, which reduced the development time and cost. In addition, a tiny web server was provided with the shell, which facilitated to run the shell on it and to have access to the system through web browser. The system currently consists of 50 cases from Writ in law domain. Lawyers are given the option for usign the system when there is a case on hand. Then the system is in a process to recommend similar cases, which are reused by the lawyers for their success. It is also possible for adding new cases when they want.

The system is developed to access cases from the Internet for case retrieval, which improves the capability of using the system for a large number of lawyers. A single user interface is given for case addition, as it's restricted to authorised body. The system was tested with several lawyers. It was noted that the system is good at fast retrieval with at high consistency of previous cases. On considering the overall evaluation it can be said that the system is 70% accurate the objective of the project. Many lawyers appreciated the system as a productive way of avoiding oversight or negligence of some cases, which may not be given much consideration sometimes. Due to human errors.