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The Hand Drawn Web Editor

A thesis presented in partial fulfilment of the requirements
for the degree of
Master of Science in Computer Science at Massey University

Meihua Cui

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Abstract

The Web is increasingly the most important part of the Internet for many users. Millions of new Web pages are being posted in the Internet everyday. The Internet has also become a mass-medium for lecturers distributing the lecture notes.

Most of the Web editors currently available in the market can not provide the users, especially the lecturers, with a convenient way to handle special scientific symbols or characters that are not on the keyboard directly. It always takes several steps to insert or edit those special characters. It slows down the data input dramatically.

Hand Drawn Web Editor (HDWE) is a stand-alone electronic publishing application. It is designed to provide the user with the integrated environment to edit and browse Html documents. It can also provide a user with a Hand Drawn Panel (HDP) so that he or she can input and edit special scientific symbols and characters freely upon the request.

The development environment, frameworks, tools have been discussed in detail. The full development life cycle has been documented using Rational Rose. Some problems have been encountered and their solutions have been described.
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<th>Description</th>
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<tr>
<td>API</td>
<td>Application Programming Interface</td>
</tr>
<tr>
<td>AWT</td>
<td>Abstract Windowing Toolkit</td>
</tr>
<tr>
<td>GUI</td>
<td>Graphical User Interface</td>
</tr>
<tr>
<td>JAR</td>
<td>Java Archive File</td>
</tr>
<tr>
<td>JDK</td>
<td>Java Development Kit</td>
</tr>
<tr>
<td>JIT</td>
<td>Just In Time Compiler</td>
</tr>
<tr>
<td>JFC</td>
<td>Java™ Foundation Classes</td>
</tr>
<tr>
<td>HDP</td>
<td>Hand Drawn Panel</td>
</tr>
<tr>
<td>HDWE</td>
<td>Hand Drawn Web Editor</td>
</tr>
<tr>
<td>IDE</td>
<td>Integrated Development Environment</td>
</tr>
<tr>
<td>MDI</td>
<td>Multiple Document Interface</td>
</tr>
<tr>
<td>MVC</td>
<td>Model-View-Controller architecture</td>
</tr>
<tr>
<td>PL&amp;F</td>
<td>Pluggable Look and Feel</td>
</tr>
<tr>
<td>RMI</td>
<td>Remote Method Invocation</td>
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<tr>
<td>VM</td>
<td>Virtual Machine</td>
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