

CISC 499 Project Proposal

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Several years ago I wrote a useful little C# (pron. "C Sharp") program that generates monthly calendars in (static) HTML for user-specified finite numbers of months (e.g., a university term, a soccer season, etc.). The output of the program is a series of tables, each representing a single calendar month, laid out something like this:

```
<table class="month sep">
  <tr>
    <th class="monthname" colspan="7">September 2007</th>
  </tr>
  <tr>
    <th class="day">Sun</th>
    <th class="day">Mon</th>
    <th class="day">Tue</th>
    <th class="day">Wed</th>
    <th class="day">Thu</th>
    <th class="day">Fri</th>
    <th class="day">Sat</th>
  </tr>
  <tr>
    <td class="day"><br /></td>
    <td class="day"><br /></td>
    <td class="day"><br /></td>
    <td class="day"><br /></td>
    <td class="day"><br /></td>
    <td class="day"><br /></td>
    <td class="day">1<br /></td>
  </tr>
  <tr>
    <td class="day">2<br /></td>
    <td class="day">3<br /></td>
    <td class="day">4<br /></td>
    <td class="day">5<br /></td>
    <td class="day">6<br /></td>
    <td class="day">7<br /></td>
    <td class="day">8<br /></td>
  </tr>
  <tr>
    <td class="day">9<br /></td>
    <td class="day">10<br /></td>
    ...
  </tr>
</table>
<table class="month oct">
  ...
</table>
```

As you can see, the HTML is fairly rich with class identifiers which allows me to give my calendars pleasing styles for viewing and printing using cascading style sheets (CSS). What the program *doesn't* do is allow me to incorporate event information in my calendars. This I have to do by hand in an HTML editor after a calendar is generated and embedded in an HTML document. As you might imagine, editing a calendar in its raw HTML state is awkward and error prone. I'd much rather be able to fire up another program that opens an existing HTML document, locates any calendar tables it may contain, and then allows me to:

- Edit the content for an individual date, allowing me to enter times (optionally) and details for a list of events;
- Do the same for repeated events (e.g., over several consecutive days, or once a week on a specific day);
- Automatically sort events according to time (if given) for all days in the calendar file;
- Create a human-readable text file listing calendar events chronologically;
- Update the HTML file (while keeping an archival copy of the original file).

I would like my calendar management file to be written in C#. A copy of Microsoft Visual Studio will be provided to the student who takes this project on under the MSDN Academic Alliance program.