Project Evaluation

For Online Real Estate System

Version 1.0

Submitted in partial fulfillment of the requirements of the degree of MSE

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1. **Introduction**

   This document presents a summary of the experiences I gained during the life cycle of my MSE Portfolio.

2. **Problems Encountered**

   This section describes some of the problems and difficulties encountered during the project.

   **2.1 Choosing Technology**

   This was the first problem which affects the rest of the project. There were two options: Microsoft .NET or J2EE. Both tools have their pros and cons. I finally chose Microsoft .NET as my working environment because its ease of use.

   **2.2 learning ASP.NET and C# language**

   It took some time for me to learn the programming language because I don’t have enough experience with similar languages like Java. The big challenge was to find a good book that encapsulates all the features of the technology with examples that help in making the learning task faster. So I spent some time finding a book, but at the end I found myself learning from the internet faster than having a book.

   **2.3 Backup Data**

   I had problems in my computer twice. One was a software problem which I solved by restoring the system files and another was a hardware problem when I needed to change my LCD screen. From both problems, I learned that it is very important to have at least one complete copy of the work saved in a safe place.
3. **Source Lines of Code**

The estimation of LOC was 2500 at the beginning of the project. It was based on similar examples of other systems. The actual SLOC is 2998.

The following is the breakdown of the SLOC:
- Source Line of C# Code = 1765
- Source Line of Auto Generated C# Code = 1018
- Source Line of HTML Code = 215

4. **Project Duration**

The initial estimated time from the COCOMO model analysis of the project is 4.78 months. At the end of the second phase, the estimated time for the project completion was 1.5 months. The actual time spent in the entire project is about 5.5 months. It took me that extra amount of time to complete the project because of the difficulties mentioned in section 2 of this document.

The following table shows the entire duration of the project:

<table>
<thead>
<tr>
<th>Phase Number</th>
<th>Start Time</th>
<th>End Time</th>
<th>Time Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 1:</td>
<td>Actual 03-25-2008</td>
<td>07-28-2008</td>
<td>Plus 25 days</td>
</tr>
<tr>
<td></td>
<td>Estimated 03-25-2008</td>
<td>07-03-2008</td>
<td></td>
</tr>
<tr>
<td>Phase 2:</td>
<td>Actual 08-29-2008</td>
<td>11-03-2008</td>
<td>Plus 4 days</td>
</tr>
<tr>
<td></td>
<td>Estimated 08-10-2008</td>
<td>10-10-2008</td>
<td></td>
</tr>
<tr>
<td>Phase 3:</td>
<td>Actual 11-04-2008</td>
<td>12-08-2008</td>
<td>Minus 14 days</td>
</tr>
<tr>
<td></td>
<td>Estimated 10-14-2008</td>
<td>12-02-2008</td>
<td></td>
</tr>
</tbody>
</table>
5. Lessons learnt

This project has been the most challenging project I have had in my master’s degree program. It gave me a good vision about how it is to work on a real word project. I didn’t think that I will be able to finish such project by myself since I’m used to work in a group of students to finish large projects. The last part of the project was the most beneficial part for me because I learned how to work under pressure to meet specific goals on specific time.

I learned the importance of going through the life cycle process of software development which made me feel the way of being a real software engineer.

6. Future work

All the ASP.NET pages will be redesigned to have a new interface that will support both English and Arabic languages.