A Software Solution

for

Wisconsin Scholastic Chess Federation

proposed by,

Marshall Sumwalt

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Proposal Overview

This document will propose a software solution to help decrease the amount of time it takes a WSCF tournament director to record a tournament's results in the proper fashion. First will be a summary of the application, followed by an explanation of the tools and process that will be used to develop the application. Finally the costs will be presented with the final proposal. The proposal will include acceptance criteria, as it is currently understood, for a completed product.

Application Summary

WSCF Tournament Reporting Aid, current working name, is an application to assist WSCF tournament directors in recording their tournament results in the proper format. This application will have the user select all tournament results in a comma separated value file (.csv extension). Adjust options for values such as number of trophy winners, name of head tournament director, date of tournament, etc. Once all of the optional values have been filled out the user will then be able to save a pdf document with the results in the proper format.

Development Tools

This application will be developed with Python using the Kivy Library. Python and Kivy are both chosen for their open applications. Python is OSI, Open Source Initiative, license approved and has no costs to use. Nor are there fees for commercial use. Kivy is also free, but under an MIT license. The choices for these products were chosen for their cross-platform nature and freedom of use. Their ability to run on any Operating System means that this product will work on any computer that a Tournament Director might use.

Development Track

This section will outline the order that tasks will be accomplished on the project as well as give time estimates. These estimates will be used in the Costs section.

- **12 hrs. - Create a basic application that will load a single result file and output a pdf**
    - 1 hr. – Set up project
    - 1 hr. – Load an individual result file and parse into a useable data structure
    - 1 hr. – Set up pdf generation library
    - 3 hrs. – Use pdf generation library to create a basic text pdf
    - 2 hrs. – Add formatting to pdf (highlighting, bolding, font sizes, etc.)
    - 1 hr. – Save to a pdf file
    - 1 hr. – Load a team result file and parse into a useable data structure
    - 1 hr. – Use pdf generation library to create a basic text pdf
    - 1 hr. – Add formatting to pdf (highlighting, bolding, font sizes, etc.)
- **10 hrs. - Create a Graphical User Interface**
    - 2 hrs. – Set up Kivy library with project
    - 1 hr. – Add a file loader
    - 1 hr. – Add a file saver
    - 1 hr. – Upgrade file loader to accept multiple documents
    - 1 hr. – Upgrade application to utilize multiple documents
    - 4 hrs. – Add inputs for all user entered information (Tournament Name, Tournament Date, Tournament Director, etc.)
- **3 hrs. – Compile application into a standalone executable**

Acceptance Criteria

This section will outline what is understood as necessary for the product to be in a finished usable state for WSCF uses. The resulting PDF file must:

- Identify the following players with highlighted and bolded text
    - Trophy Winners
    - Scholarship Winners
    - Upset Winners
- Have an alternate result layout for Grand Prix Tournaments
- Have the date of the tournament
- Have the name of the Tournament Director
- Have the number of tournament participants
- Have the total number of participants to date
- Recognize players that were registered but did not participate
- Take any number of result files in a CSV format and combine them into a single result file

Costs

My rate is $15/hr. and the estimated time for completion is 25 hours.

Proposal

This agreement, entered into on this _____ day of _____ 2014, by and between the undersigned _____ herein called the "Client", and Marshall Sumwalt herein called "Developer" is as follows:

I.   Developer will record all hours spent working on project.

II.   Developer will provide bi-weekly updates and status reports on the application.

III. Developer will finish the project within four weeks of this contract's signing.

IV.   Client will pay upon the following conditions:

   a. Completion of the Application

   b. Application meets all parts of the Acceptance Criteria

   c. Application has been received by the Client

   d. The application satisfies the Client's needs

V.   Client understands the provided times under the "Development Track" section is an estimate and could take longer or shorter.

VI.   Client will pay $15 for each recorded hour up to 30 total hours.

In witness whereof, the parties have caused this Agreement to be valid on the day signed by all parties.

_____   Client Name (Print)

_____ _____   Client Sign and Date

_____   Developer Name (Print)

_____ _____   Developer Sign and Date

_____   Third Party Witness Name (Print)

_____ _____   Third Party Sign and Date