PPMP/665 PSP-like Assignments

Document Generation

Goals of Presentation

The problem
Develop documents that support the project work being performed as a source for the PSP-exercise data

The process: analogs for

• Planning: Just like PSP, except
  – size is in sentences; document types
  – write requirements statement
  – list of questions generated to be used in test
• Design => Outline (or any other writing technique; specify!)
• Code => Write
• Compile => Check
• Test =>
The Process – Code => Write

Entry of document into an “intelligent” word processor (WP) with grammar and spell checking

WP settings

• Spell checking
  – Do not check as you type
  – Hide spelling errors in document

• Grammar checking
  – Do not check as you type
  – Hide grammar errors in document

The Process – Compile => Check

Turn on Spell checking with Grammar checking

• Record each defect (=change you make) along with regular information

• Defect categories: enter your type categories in a form

Capture the statistics for the document

• “Show readability statistics” must be ON

• After completing the check, record the number of
  – sentences
  – paragraphs
The Process – Test => Test?

During planning (part of requirements)

• Prepare a list of the questions reflecting what you want the reader to get out of the document:
  – major points
  – items and values

During testing

• Have [native speaking] peers (of the intended audiences)
  – read the document
  – answer the questions
    o directly
    o by reference to the document for details
    but NOT re-reading it

• Remember to record the time that your "test engine" uses to read the document and answer the questions.

Fixing defects

• You may have automatic spell and grammar checking on, but NOT automatic correction;
  record ALL new defects (=changes) that show up

• After fixing all defects
  – Re-check the document (spelling and grammar)
  – Record readability statistics:
    number of sentences and paragraphs
# PWP0.1 Process Script

<table>
<thead>
<tr>
<th>Purpose</th>
<th>To guide you in developing general word-processing documents</th>
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| Inputs Required | Problem description  
PWP0.1 Project Plan Summary form; Time and Defect Recording Logs  
PWP Test Report Template(s); Defect Type Standard; Stop watch (optional) |
| 1. Planning | Produce a requirements' statement.  
Write a test “plan” and test cases: Lists of questions on major points, or generic items and values, the reader should be able to get quickly out of the document.  
*Estimate total new & changed sentences.* Estimate the required writing time.  
Enter the plan data on the Project Plan Summary. Complete Time Recording Log. |
| 2. Writing | Outline the document (i.e. produce a design).  
Write the document draft (i.e. implement the design); *No auto-correct.*  
Spell and grammar Check the document: fix and log all defects found; *record readability statistics.*  
Test the document and fix and log all defects found; *record final readability statistics on Test Report Template(s).*  
Complete the Time Recording Log. |
| 3. Postmortem | Complete the Project Plan Summary with actual time, defect, and size data |
| Exit Conditions | A thoroughly tested document  
Completed Project Plan Summary with estimated and actual data  
*Completed PIP forms; Completed Defect and Time Recordings Logs* |