PSP: FUll Script

Personal Software Process for Engineers

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| Purpose | To guide you in development of a feature, user story, or any other specification or statement of requirements |
| Entry Criteria | * Clear description of the feature, user story, or other specification or statement of requirements and objective criteria for “done” * Time Log * Defect Log * **Size Estimating Template** * Job Summary * **Design templates** * Engineering Log |
| Activity | Description |
| Plan | * **Create a conceptual design of the components needed to implement the required functionality.** * **Capture the conceptual design using the Size Estimating Template.** * Estimate the task time you think you need to complete this work. Record the estimate in the Job Summary. * Record the planning time in the Time Log. |
| High-Level Design | * **Create a high-level structural and interaction design for the functionality.** * **Capture the high-level design using UML, CRC cards, or other appropriate notation.** * **Create an iteration plan that divides the work into logical groups and allocates the estimated time according to the relative size of the groups.** * **Record the high-level design time in the Time Log.** |
| Detailed Design | * **Design the detailed functionality of each new and modified component.** * **Capture structure, logic, interactions, and state behaviors using the appropriate design templates.** * **Record the detailed design time in the Time Log.** |
| Develop | * Code and test the feature. * Record the development time in the Time Log. |
| Review | **Review the design and the code using a personal checklist.** |
| Acceptance Test | * Ensure that the code and other artifacts (build and/or install scripts, data files, etc.) pass all required acceptance tests and meet all other “done” criteria. * Record each defect found in the Defect Log, including the time to find and fix each one. * Record the acceptance test time in the Time Log. |
| Retrospect | * Summarize data, including * time spent in each activity and overall * number of defects found, including total time to find and fix them * **size of each new, modified, and reused component as well as total size** * Record the summarized data on the Job Summary. * Briefly analyze the data and record your observations **and any PIPs** in an Engineering Log. * Record the retrospect time in the Time Log. |
| Exit Criteria | * A completed work package, including **design artifacts,** source code, and test results * Completed **Size Estimating Template,** Job Summary, Engineering Log, and supporting Time and Defect Logs |

Document Markings

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