



Computer Science 302 - Assignment 3: Maintaining a Systems Development Project

If you have a Study.com College Saver membership and are seeking college credit for this course, you must submit an assignment and pass the proctored final exam. You must submit your assignment before registering for the final. Below you will find prompts and instructions for submitting your assignment.

About this Assignment

System Analysis and Design refers to the procedures of examining or developing business systems with the intent of improving it through industry standard methodology and framework. For this assignment, you will be focusing on the **maintenance** phase of the systems development life cycle (SDLC).

Using course materials and external, peer-reviewed sources, write a **1500 to 2000** word paper. In this paper you will write an outline of the steps for ensuring a successful maintenance phase of a systems development project.

Scenario

Backyard Adventures (BA) is a guided tour and water sports rental company in Jacksonville, Florida run by two brothers, Shawn and Harry Weaver. They advertise Backyard Adventures in several local and regional magazines and web sites, but the Weavers don't feel that it is attracting new business.

In the first assignment for this course, you have developed a systems analysis and design report for Backyard Adventures. In the second assignment, you compared Agile methodology to other methods and recommended a path for BA.

You are now going to focus on the maintenance phase of the SDLC. This is an area that often gets the shortest effort and attention in systems development. Too often project members go on to other projects, and leave a smaller staff to pick up the pieces and keep the system running.

Writing the Report

Based upon the systems design you proposed in assignment 1 and the recommendation from assignment 2, expand upon the maintenance phase of the SDLC for the Backyard Adventures project.

Core Topics

In your paper, be sure to address the following:

- Corrective Maintenance
- Adaptive Maintenance
- Perfective Maintenance
- Preventive Maintenance
- Cost of Maintenance
- Maintenance activities: E.g., identification, analysis, design, etc.
- Knowledge-retention policy

Forward-Looking Activities

Part of maintenance is also looking forward and adapting to changing conditions. Include at least two (2) of the following elements in your paper:

- Software re-engineering
- Reverse engineering
- Program restructuring
- Forward engineering
- Component reusability
- A diagram of a process for re-using components/software

You may write your paper in the form of a proposal or other professional document.

Related Lessons

The following lessons from the course may help with this assignment:

- Systems Development Life Cycle: Software, Development Process
- Maintenance Phase in SDLC
- Post Project Implementation Review: Purpose & Benefits
- Monitoring & Controlling Phase of Project Management

Formatting & Sources

You may refer to the course material for supporting evidence. You may also use other sources as needed. Make sure you cite them using APA format. If you use any Study.com lessons as sources, please also cite them in APA (including the lesson title and instructor's name).

If you are unsure about how to use APA format for your paper and sources, please see the following lessons:

- What is APA Format? Style & Definition
- How To Format APA Citations

Grading Rubric

Your report will be graded based on the following rubric:

Category	Unacceptable (0-1)	Needs Improvement (2-3)	Good (4)	Excellent (5)	Points
Types of Maintenance (x1)	Does not produce a viable discussion for the multiple types of maintenance activities	Provides a limited analysis of the types of maintenance activities; topics covered briefly	Produces an adequate discussion of the types of maintenance activities	Produces a comprehensive analysis of the types of maintenance activities; includes examples	5
Maintenance Activities (x1)	Does not produce a viable discussion of maintenance activities	Provides a limited analysis of specific maintenance activities; topics covered briefly	Produces an adequate discussion of the specific maintenance activities	Produces a comprehensive analysis of the specific maintenance activities; includes examples	5
Knowledge Retention (x1)	Discussion of knowledge retention is very limited or non-existent.	Very limited analysis of knowledge retention policies/procedures	Adequately analyzes the knowledge retention policies and procedures	Comprehensive analysis of knowledge retention policies and procedures	5
Forward-Looking Activities (x2)	Identifies and analyzes few, if any, forward looking activities in the maintenance phase	Identifies and analyzes only 1 activity in the maintenance phase	Identifies and analyzes 2 of the forward-looking activities with adequate discussion	Comprehensive analysis of the two forward-looking maintenance activities	10

Clarity, Structure & Organization (x1)	Disorganized and unclear structure. Language is difficult to understand. Contains grammar, spelling, and punctuation errors.	Acknowledges the main points, but lacks a cohesive structure. Contains some unclear language and typos.	Addresses the main points in a cohesive structure. Language is understandable, clear, and correct.	Main points are very clear and concise. Organization is logical; transitions between points are smooth and enhance clarity and delivery of main ideas.	5
Total					30

Before You Submit

When you complete your assignment, we suggest taking some time to check for any errors or to add any finishing touches. We also suggest that you use online plagiarism checkers such as PlagScan or DupliChecker to make sure that your assignment is not too similar to any existing materials. Plagiarized submissions will NOT be graded.

How to Submit Your Assignment

When you are ready to submit your assignment, **please fill out the submission form** and attach your assignment in Microsoft Word, PDF, or Text document. You should receive your assignment grade within one week.

If you are not satisfied with the score you receive on your assignment, you may revise or rewrite it, and resubmit them for grading using the same submission form above. Keep in mind that the grade you receive on your assignment is only a portion of your overall grade for the course. Please see the course syllabus for a more detailed breakdown of the grading policy.



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