

IS446 – Systems Analysis and Design

Waterfall Planning Documents Practice Assignment

Instructions

Overview

Chapter 6 of the Spurrier and Topi book identifies several tools that could be used for planning a project using a waterfall approach. These include Gantt charts and project scheduling tools like MS Project and Planview. Such tools are beyond the scope of this course. So, we won't be using them in this assignment. Instead, we will be creating a Project Scope Statement. This will be a brief report that documents our understanding of what is included in the scope of the project and what will not be included. The goal of this document is to express a common understanding so that we can proceed with the project after having reached consensus on this scope with the stakeholders.

I have included an MS Word template for a Project Scope Statement in the Weekly Schedule for your use. The document outline is based on a project case that appeared in a textbook previously used in this course (the *Pine Valley Furniture* case from the Valacich & George textbook).

I have also provided a tutorial video that demonstrates how to create a Project Scope Statement. During that video, I may mention the *Pine Valley Furniture* case or the Valacich & George textbook. Please, don't be distracted by this. The document outline that we are following for the Project Scope Statement is a common one. You don't need either the case or the textbook to use the template. Just follow my tutorial video to create a useful document.

Exercise 1 (Regular)

You will create a Project Scope Statement for the *iSchool Webstore* project. A case description document for this project is included in the Weekly Schedule. This is a big case that I use for several different courses. For the purposes of this assignment, you should limit the scope of the project to include only the following requirements:

- Setup a customer
- Setup a product item for sale
- Take an order
- Accept payment for an order
- Track *picking* of the order
- Track shipping of the order
- Report sales

There are other requirements that are discussed in the case description that should NOT be included in the scope of this project. These include:

- Messaging between customer and Webstore staff
- In-person order pickup (not to be confused with *order picking*)
- Automated interface to shippers' systems (like USPS)
- Automated interface to vendor's systems (like suppliers of T-Shirts, Mugs, etc.)
- Tracking of which Webstore employees performed which actions (like picking, shipping, etc.)

It is not uncommon for systems analysts to work with clients to determine the subset of requirements that will *fit in* to a project. So, knowing that some requirements that have been discussed will not be included within the scope of the project is a common occurrence. Your Project Scope Statement for iSchool Webstore should describe the scope as listed above. Use the document that I create in the tutorial video as your model.

Exercise 2 (Challenge)

Create a brief phased development and implementation plan for the *iSchool Webstore* system. Even though you will be taking a waterfall approach to this project, it is possible for the plan to include phases of development and delivery. This might allow certain parts of the overall system functionality to be delivered earlier than others. In less than one page of text, describe your approach to phased development for this project. Which parts would be included in which phase? Include your rationale for why you have grouped functionality into the various phases.

Note that there I have not provided a template or tutorial video for this exercise. Use your creativity and best judgement.

Order Picking as a Term of Art

In this case, the word *picking* refers to *order picking* – a part of the order processing process. See https://en.wikipedia.org/wiki/Order_processing#Picking .

Format

Create just 1 typewritten document. Start each exercise on a new page. Convert your document to PDF. Please submit 1 file in PDF format.

File Naming

Please use the following naming scheme for your assignment submission:

surname_givenname_waterfall_planning_documents_practice.pdf

If this were my own project, I would name my PyCharm project as follows:

trainor_kevin_waterfall_planning_documents_practice.pdf

PLEASE NOTE: All file names must be in lower case. Deductions will be made for submissions that do not conform to this standard.

Due Date

Please see the Weekly Schedule for the date and time when this assignment is due.

Last Revised
2022-09-22