# *Systems IV Assignment 2*

# *PEA, Research Data*

Date assigned: Tuesday, January 30, 2018

PEA date due: **Tuesday, January 30, 2018 at the end of the lab**

Research date due: **Tuesday, February 6, 2018 at the start of the lab**

**Learning Objectives**

Upon successful completion of this assignment, the student will be able to:

* Fulfill the requirements for PEA deliverable 2 (Software Development Process).
* Develop a database for recording bibliographic information for a research project
* Collect sources for research project
* Collect research data and corresponding bibliographic data

To do:

**Part A – PEA**

**Create a folder named YourUserName\_E42\_A02 in your H:\3rdYear\420-E42 folder to hold all the folders and files for this assignment.**

**Copy the folder named YourUserName\_E42\_PEA from the YourUserName\_E42\_A01 folder to the YourUserName E42 A02 folder.**

1. Make the changes/corrections identified in the work submitted for Assignment 1. These changes must be made in order to pass your PEA.
2. Based on the discussion in class, set up the links and documents for the following PEA Deliverable:

**Deliverable 2 – Software Development Process**

**For all the links, make sure that the link is in context and that the linked document has been updated with the changes that were identified last semester.**

* A brief overview of the methodology used to develop the system
  + Write a 2-3 paragraph summary that describes the Agile methodology used in E50 and E63 to develop the system. Include the following topics:
  + A summary of the basic principles on which Agile is based.
  + The use of user stories and acceptance criteria for requirements.
  + Explain what a sprint is, and how it works. Include descriptions and the purpose of the sprint planning meeting, the product backlog, demo and sprint retrospective meeting.
  + Describe the daily scrum meetings, explain their purpose and the three questions that are asked in a scrum.
  + The continuous integration of testing into the process.
* An analysis of the methodology used to develop the system
  + Write a one paragraph analysis containing your opinion of the appropriateness of the Agile methodology for your project. What were the positives and negatives of your Agile experience?

**Check the spelling on all the documents and web pages that were created during this assignment. Copy your work from the Software Development page into a Word document called YourUserName\_E42\_PEA\_A02.docx. Hand in both the zipped web files and the Word document.**

**Part B – Research Data Collection**

1. Read the following website about how to properly evaluate Internet sources. We discussed in class about the importance of ensuring a website used in your research is credible. Your research project cannot proceed unless you have credible sources.

<http://help.library.ubc.ca/evaluating-and-citing-sources/evaluating-information-sources/>

1. **Using the Internet, identify ten possible sources of information for your research topic**. Provide the links for the 10 sites – remember that they must be credible sources (generally, no blogs, unless they are written by an expert in the field).
2. You have the choice of using an online reference system to track your research, or using Excel.

If using an online reference system, there are 3 well known, free options: Zotero, Docear and Mendeley. The following article summarizes the abilities of each: <http://www.docear.org/2014/01/15/comprehensive-comparison-of-reference-managers-mendeley-vs-zotero-vs-docear/>.

If using Excel, create an Excel document named **YourUserName\_E42\_A02\_Research\_Notes** to record your answers. Develop an electronic database to record the bibliographic information for a research project. Refer to the MLS Guide for the required format for the final Works Cited page. You will use this electronic database to store the information you collect as you do your research.

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| --- | --- | --- | --- |
| **Title** | **Source (URL or Publisher)** | **Date** | **Data** |

1. Collect data for the research project and update the bibliographic database. The purpose of this task is to collect data on a weekly basis to ensure that the completion date is met. Therefore, for the purposes of this assignment, the only evaluation done will be related to the quantity of data collected and the bibliographic database. Additional time will be allocated to collecting research data in upcoming assignments.

**To submit:**

When you have completed the assignment, upload the following to Moodle:

* YourUserName E42 PEA folder, containing all the files in the digital portfolio
* YourUserName\_E42\_PEA\_A02.docx containing the content from the pages you wrote today in Word format.
* YourUserName\_E42\_A02\_Research\_Notes file, either in Excel format, or shared from the electronic system.

**Marking Scheme:**

|  |  |
| --- | --- |
| **Software Development Process** | **Out of** |
| A brief overview of the methodology used to develop the system |  |
| Summary of the basic principles on which Agile is based. | 7 |
| User story description; acceptance criteria | 4 |
| Sprint description, sprint planning meeting, sprint retrospective meeting, description of demo. | 6 |
| Scrum description and purpose; 3 questions | 5 |
| Testing overview | 3 |
| A brief overview of the methodology used to develop the system |  |
| Analysis of positives and negatives of the Agile experience | 5 |
| Updates from Assignment 1 | 5 |
| **Total** | 35 |

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| --- | --- |
| **Research Assignment** |  |
| Ten Sources of information - credible, properly referenced. | 10 |
| Reasonable amount of data collected for first week of research | 10 |
| **Total** | 20 |