CS251: Intro to Software Engineering
Homework 1 Online (3 marks)

Cairo University, Faculty of Computers and Artificial Intelligence

Objective

1. Learning about domain analysis and practicing it
1. Understanding different types of requirements, how to collect them and how to represent them.

Instructions

1. Students will work in groups of 4 – Groups are already assigned on Blackboard
2. **Team members should all collaborate and contribute to the wiki and do their share of work.** سيتعاون الطلاب على تطوير الويكى متشاركين سويا و سيتم تقييم كل منهم حسب قدر مشاركته
3. **Students should act in a <u>polite</u>, <u>respectable</u> and <u>responsible</u> manner.** يجب على الطلاب التحلى بالأدب و الاحترام و تحمل المسؤولية تجاه الآخرين بغض النظر عن اختلافهم فى الجنس و الجنسية و الدين إلخ
4. Team will do the task and by the **deadline of 14 April 2021**
5. Your wiki should consist of at **least 1500 words, minimum of 4 pages**, one of them is an introduction page that explains what the wiki is about and what domain is used and links to other pages.
6. Students can write in **Arabic or English.** للطلاب أن يكتبوا بالعربية أو الانجليزية
7. Each student should write to the wiki **on three different days** and at least **500 words.**
8. Students should include at the end of each page, a **list of the resources** used to write this page, either books, sites or people they met with or interviewed. اضف المراجع بنهاية الصفح
9. **No copying is allowed. Write in your own words.** يحظر النقل و يعتبر غُشا فاقرأ و لخص بكلماتك

Task

1. **All students** should first learn what a wiki is and get familiar with wikis in Blackboard. Some resources on wikis are given at the end of this document.
2. **All students** should read reading 5 and one of readings 4. They can choose on reading to read all or they can divide themselves into two groups, each one reads one of the options of reading 4.
3. **Students** should study the format of domain analysis document and use it as it is or simplify it.
4. **Students** should suggest domains that they have access to experts in and assume that they want to understand the domain to build a software system to automate its work. For example, someone his mother might be a teacher and they plan to develop a system about school management and they need to understand the domain.

ابحث فى معارف الفريق عن شخص خبير فى مجال غير مألوف لنا و نحاول التعرف على المجال تمهيدا لعمل نظام لميكنته ، فمثلا:

١- متاح ناظر مدرسة و مجال العمل هو إدارة المدارس
٢- متاح تاجر مستلزمات طبية و مجال العمل هو تجارة المستلزمات الطبية
٣- متاح محاسب تكاليف و مجال العمل هو محاسبة التكاليف

٤- متاح مأذون شرعى و مجال العمل هو توثيق حالات الزواج و الطلاق و البحث فيها و طباعتها إلخ

5. **Students** should decide on the domain of choice and assign **at least two people** to meet the domain expert (in person or on zoom) to do an interview with him about the domain.
6. **Students** should divide the work by agreement.
7. **All students** should collaborate in working on the wiki by adding pages and content and organizing the content to provide:
   - **Summary of reading 4** on requirements, it's types, how to collect it, how to document it, etc. Possibly add drawings to explain things.
   - **Domain analysis** for the domain they chose. Follow style of reading 5.
8. **Students** are expected to write at least **1500 words** and **at least 4 pages** in their wiki. This is the minimum. Add list of **references** at bottom of each page.
9. **Students should write in their own words and not copy any resource.**

Marking Criteria

1. **0.5 mark**   For achieving number of pages and words.
2. **0.5 mark**   For good organization of information
3. **1.0 mark**   For excellent and detailed domain analysis and good choice of domain.
4. **1.0 mark**   For excellent and detailed summary of reading four
5. **Possible 0 for any student not contributing with the team** Blackboard shows what every student wrote and on which days.
6. **Possible -3 if any part of the wiki is copied from net or books or other wikis and is not original work of the students.**

References

1. https://cft.vanderbilt.edu/guides-sub-pages/wikis/
2. https://www.youtube.com/watch?v=O-NhKBTDxJ0
3. https://www.youtube.com/watch?v=-dnL00TdmLY