Lab 5 – Code Review Template

Reviewer Name: Manea Alexandru-Damian

Reviewer Group: 214/2

Initial C application was created by (Name/Group): Lungu Ioan Adrian 214/2

Please fill in the following table using appropriate, complete data:

List of application functionalities that are missing, are incomplete or buggy.	None
List of program functions (except UI) that are not covered by tests.	None
List of program functions lacking specification.	None
Is there a clear separation between each module's specification and its implementation? **Please detail…**	Yes, every module has its implementation in the corresponding c file and its specification in the corresponding h file.
Is the application correctly layered? **Please detail…**	Yes, the application respects the domain-repository-service-ui layered architecture with clear separation between them. However, the function selectionSort found in Utils.c should be in List.c (or at least in controller, but more specific by accepting as parameter a function taking two medicine pointers) because it is designed to sort a List.
Does the application handle memory correctly (all memory is deallocated, no dangling pointers etc.). **Please detail…**	Yes, there are no memory leaks (checked with valgrind) and no dangling pointers.
List those functions that are unclear to you (you don't understand their role or how they work – usually a sign of bad design).	• updateMedicineRepository() found in MedicineRepository because it mutates a medicine which can be outside of the repository and not searching for one in the repository, thus being redundant and a sign of bad design.
List the problems present in the reviewed application and indicate the number of man-hours you require for	• Found "#pragma once" in c files where is redundant. • Not casting function pointers passed as parameters to functions which accept function pointers of different type(https://stackoverflow.com/questions/31942838/casti

fixing them.	ng-function-pointers) which is accepted but dangerous and causes warnings. • Problems with “_s” functions on Linux even if they are standard C11, I couldn’t manage to get them working (compiling with -std=c11 didn’t work). • Maximum 1-2 hours required to fix them.