Green University of Bangladesh

Department of Computer Science and Engineering(CSE)

Faculty of Sciences and Engineering
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CLP-1

Course Title : Integrated Design Project I
Course Code : CSE-324 Section : 201 D2

Lab Experiment Name : SDLC Selection

Student Details

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Course Teacher's Name : Mr. Palash Roy

1 SDLC selection

As of our project proposal [1], we are making an interactive website for GUCC. For this project we have selected Rapid Application Development (RAD) approach. The reasons are as follows -

1. Requirements : All our requirements are well known.
2. Time : To complete our project, we have a deadline and hopefully that's anytime in September. RAD is the only approach where we can quickly create a project within a delivery period [2].
3. Budget : As described in the proposal [1], our budget is fixed and RAD approach is appropriate for this situation.
4. User Involvement : We will definitely show our project in every class to our Course Instructor Mr. Polash Roy Sir, so making prototypes will help us greatly in that matter. We will also be able to show our overall progress. Also, we will be able to make changes as our instructor tells us. RAD approach ensures this trait.
5. Concurrency : We have divided our project into modules and divided the modules among ourselves to implement. RAD approach allows concurrency. So we will face any problem doing that.

2 Why Not other SDLC's

2.1 Waterfall Model

While using the waterfall model [3], we will not be able to make any changes once we finished one step. In other words, if our course instructor gives us any feedback, we will not be able to apply them on our project. Furthermore, it we want to add to new modules, we will not be able to do that.

2.2 V-Shaped Model

V-Shaped Model [4] is very rigid and least flexible. So we will not be able to make any requirement changes in the middle of the development stage. In addition in does not allows concurrency development. So we will not be allowed to divide our tasks.

2.3 Spiral Model

Spiral model [3] requires a lot of time in risk analysis. Ours is an small project and it does not necessarily needs any risk analysis. In addition to that, no one in our team has expertise on risk analysis or whatsoever. So we will not be able to do the risk analysis and therefore this approach is inappropriate.

2.4 Iterative Model

Although in iterative model [5] cost of change is lesser, but it is not very suitable for changing requirements. So with this approach we will not be able to change our requirements.

2.5 Incremental Model

In this approach dividing the whole project into unit modules are very tough. So we will not be able to divide our tasks. So this is not the perfect approach for our project.

References

[1] Al-Arafat. (2022) Lab report-1. [Online]. Available: https://www.overleaf.com/read/gfzqkhcjzsrm

[2] G. Smashers. (2021) Comparison of all sdlc models. [Online]. Available: https://youtu.be/ASrMUd0p9fE

[3] I. Sommerville, *Software Engineering Ninth Edition.* Dorling Kinderley India Pvt. Ltd, 2011.

[4] T. QA. (2021) V-model. [Online]. Available: https://bit.ly/3PplGDa

[5] P. QA. (2021) Iterative model. [Online]. Available: https://www.professionalqa.com/iterative-model