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**UNIVERSITY-BANGLADESH**

**Faculty of Engineering**

**Assignment Cover Sheet**

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| Assignment Title: | Software Engineering Assignment 1. | | | |
| Assignment No: | 1 | | Date of Submission: | 12 April 2020 |
| Course Title: | Software Engineering | | | |
| Course Code: | **Click here to enter text.** | | Section: | H |
| Semester: | Spring | 2019-20 | Course Teacher: | **S.M. ABDUR BHUIYAN ROUF** |

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Software engineering model for Psychomotor

1.

After assessing the above stated case, the process model of software development I’m going to follow for developing the above mentioned project is Scrum development model. For taking this decision I will invite my client to share their opinion. There are few reasons for that. The most important reasons are –

1. As the system is very complex, if the client can share their requirements more clearly, it will be easier to build the system efficiently.
2. It can help us to know more about the target users.
3. We can get to know if there is any deign considerations or constraints in his/her mind.
4. To know if there are any software that he/she likes that can be used as inspirations.
5. We can get an idea about the stakeholders.
6. To get an idea about the real/expected deadline.
7. Finally, to get a clear idea of his/her budget.

2.

From the above stated case, we can see that the establishment5 is in turmoil situation and its working procedure is also unstable and are being changed frequently. It’s a very complex system. The reason to use Scrum framework is that, it is a lightweight agile framework and it can manage complex product more efficiently than other frameworks. We know that, Scrum is an iterative and incremental approach for developing products and managing work. The MD has agreed to get the workable part of the software installed on their sites with incremental deliveries. So, it is very compatible to build this project with Scrum framework. We also noticed that the system is subjected to frequent changes. Scrum can implement the changes more easily than other framework as Projects progress via a series of iterations called “Sprints” that helps to implement the changes easily. Overall, from all of the discussion we can undoubtedly say that, Scrum framework is more suitable than any other framework for this establishment.

3.

Timebox is a fixed-length period of time during which an activity is performed. It is a time management technique that helps to organize the performance of work and manage scope. Time-boxing works by concentrating on when a business objective will be met as opposed to the tasks which contribute to its delivery. Without effective time-boxing, teams can lose their focus and run out of control. This is why time-boxing plays an important role in developing software. Yes, I’m going to apply Time-box concept in my project. We can say that it is a very important aspect of Scrum. One of the most important part of Scrum is Sprint. Heart of Scrum is a Sprint. A Sprint is a short and consistent duration, timeboxed iteration during which a potentially releasable product increment is created. It has a short and consistent duration and that’s why time-boxing is important in Scrum framework. Time-box is the time between start and end of an activity and ideally, the time-box has length of 2-6 weeks. To decide the period of time-box I will look into the project requirements. If we want to build the software in time we need a constant duration. Each time-box duration is 1 – 4 weeks or a calendar month at most for this project. This duration remains constant for all the Sprints in the project. A constant duration leads to a better rhythm. With that we can easily complete the project on time.

Thank You.