

IT-314

LAB-1

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Q1:

a) Since the project is quite simple we can think of using the Waterfall model the possible downside would be to not be able to change requirements in future.

b) Since the staff has not enough experience of using computers we would have to make sure that the system should be user friendly and should be easy to understand. To ensure that we could use an Iterative model which would give us feedback from the user on a regular basis which would be then reviewed and changed upon the requirement suggested by the user.

c) Similar to the previous question we could use an Iterative approach to make a system with desirable features. But if we have to change features i.e to add new features or to enhance features we could also think of using spiral method.

d) Since the system needs changes quite often we could think of using the Agile model process. It provides frequent iterations and collaborations between development team and client.

e) It is similar to (c) where we could add new features or change features so for this we could use the spiral method.

f) Anti-locking system seems quite simple and straightforward so using should work but we would have to update the system frequently depending on where the vehicle is travelling so we could also think of using an incremental model process.

g) For software maintenance, we could use the Incremental model since it would divide the project into smaller, manageable parts that can be developed independently and then integrated into the system, so it would help us to make complex functionalities easily.

h) Since we are replacing the already existing model we could use a simple model like waterfall and add required functionalities in the very beginning or we could use an incremental model which would like previously mentioned would help us to break the existing project and allow us to add new and if needed changes to them.

i) Since the user end has to be simple and friendly also we want it to be as seamless as possible we could think of using an agile method which would help us to deliver the project iteratively and gather feedback for further completion of the project.

j) We could use Incremental for this project which would help us to make frequent changes and would help us to get frequent feedback when we need because the missile system has to be pin point accurate.

k) Since we would have to make emergency changes, the Agile model would seem ideal because of its flexibility, collaborative and iterative nature. The Agile model with scrum framework is highly suitable for managing emergency changes.

l) We could think of using incremental and iterative models. The Iterative and Incremental model combines elements of both iterative and incremental development approaches so it would help us to make any required changes in future if we need and since it is user friendly we would also need regular feedback so this model would take care of that too.

m) Since we don't have to make any changes further down the line the waterfall model would suit much better.