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CSE 470 (ZWB)

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Ans to Q 1 (A)

The ideal development method to work according to the scenario will be scrum of agile philosophy. Reasons are given below:

1. Since requirements may change in the middle of project, scrum would be a good choice since it works based on sprints where each sprint has separate sprint backlog of tasks needed to be done.
2. Since Sundar Pichai is desperate to have a result as soon possible using scrum they can have a working deliverable quickly as it delivers deliverables on every sprint.
3. Since scrum supports diverse team members, I can bring diverse people of different specialities to work in my team.

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Ans to or no B

As a team lead i would like to maintain a burndown chart to keep track of progress of my project. A burndown chart is a graphical representation of the tasks that has been done and left to do with respect to the time. Moreover, I'll call sprint meeting everyday to discuss the progress of work with my team members which will give me up to date everyday. Again, there is sprints after each sprint - by doing sprint review i can track progress of my project.

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Ans to or no C

Since for the longevity of the product codebase has to be well documented, I'll use waterfall model. Waterfall model is a linear sequential model and it is well documented. Also, I would like to keep scrum at the same time combining with waterfall:

After each sprint I can have my team document the progress of project. In waterfall even though it is well documented, the requirements are fixed and not changeable so I would like to combine scrum with it.

Ans to Q1(D)

Functional requirements are those served by the system. Here are the functional requirements:

1. Sending text messages to users.
2. Attaching attachments and send to other users.
3. Sending images or voice texts.
4. Should support real time collaboration.

Non functional requirements are the constraints of system.

1. Performance: System should be responsive and handle large data.
2. Scalability: Later more people should be accommodable by the system.
3. Security: Should ensure user security and privacy of data.

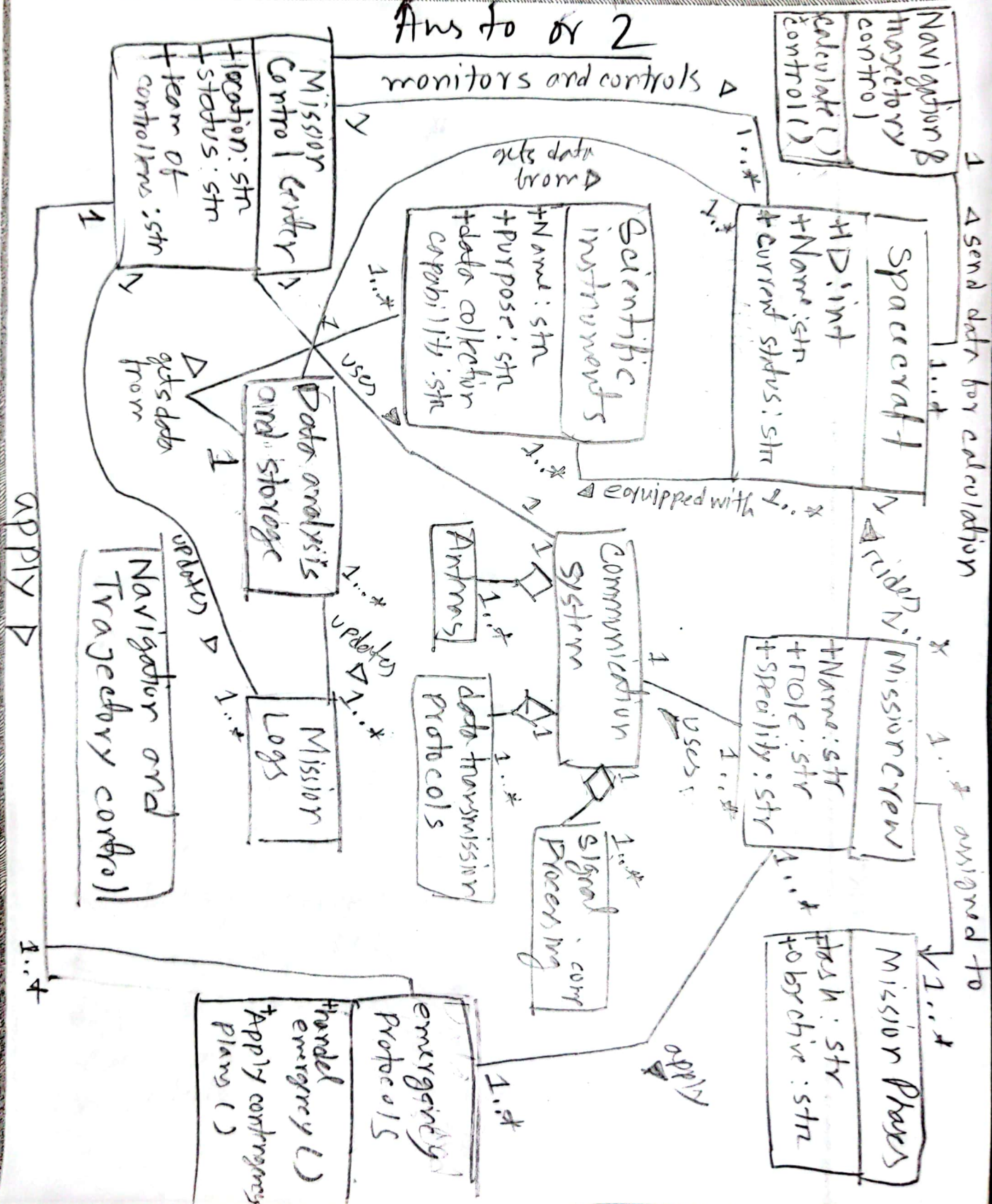
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Ans to Q 2



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Ans to Q 3(A)

The software pattern I'll use is client-server pattern. Because here a server is required to process this remote real time gameplay.

Advantage : Server can be accessed across a network.

Disadvantage : The performance depends on network. Since different organization can own the servers sometimes it's not trustable.

Ans to Q 3(B)

Monoolithic software architecture is sequential and not capable of handling complex projects like this one. For example, this project might need different components independent of each other to develop properly but monoolithic architecture makes it all connected so it becomes single point failure.