

MS(CS)

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Subject : Software Engineering  
Technologies

# Question - 1

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Five Factors chosen in bids:

## 1) Pricing:

The first factor that I will consider will be the pricing plan of the company providing public cloud. As the bank is already facing financial issues so low pricing will be the priority.

### Evaluation Criteria:

Is the pricing plan of the company is in range of the bank and the company is not applying extra charges for different facilities. I will look for the whole breakdown of prices for each facility provided by that public cloud.

## 2) Security:

The most critical factor in public cloud is the security issues. As our organization is a bank so the first priority will be the security the company will provide to your data.

### Evaluation Criteria:

I will evaluate each proposal by considering that what type of technologies they will use to protect our data. If they are using latest



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technologies for this purpose as they are old one.

### 3) Reliability:

Another important factor is the reliability which means that if they will provide a reliable service with strong network connectivity and no down time.

#### Evaluation Criteria:

I will consider the Uptime they will provide mentioned in their proposal and if they will take the responsibility in case when ~~you~~ our service will be down. What measures they will take in such cases.

### 4) Help / Support

Help or support means that in case of issues ~~what~~ whether there is enough support and help available or not.

#### Evaluation Criteria

I will look into their support measures and if any issue occur, they will provide help and available on time or not.

### 5) Quality of Service

Quality of service is a very important factor. It includes

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scalability, maintainability<sup>li</sup> and efficiency.

### Evaluation Criteria:

I will consider that if their service is scalable or not, and if they can handle our growing data. How they will maintain their service and how fast their service will be.



## Question-2

### 1- Prototype chosen:

I will choose the "Mockup" prototype.

### 2- Reason:

I have chosen the "Mockup" prototype because

- In "proof-of-concept", I have to dive in all architectural layers but I am only a designer.
- I am not clarified about the scope.
- I have only the task to show the design, the primary focus is design, not the backend (Database etc).

### 3- Risks:

- Front-end-development includes latest technologies (React JS etc), so it will be a risk that the functionality shown by prototype ~~can~~ can be developed in these technologies or not.
- The functionalities shown by the mockup ~~can~~ ~~can~~ be implemented by the backend or not.

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### 4- Mitigating Risks:

- I can have a meeting with React JS or Angular JS developer and discuss the design with them that the design can be



implemented or not.

- I can develop a small proof-of-concept prototype for myself, implementing the design with React JS technology which includes strong middle layer.
- I can take a dummy data and show it in the prototype considering it the database data. Like an array of data (textual), as it does not have videos, so textual data can easily be implemented.

## Question-3

1- First artifact that I will review will be the **Product Backlog** which will help me understand where the product is standing. How many tasks have been completed and how many high priority tasks are on the line.

- I will rearrange the tasks in order of highest priority in order to satisfy the client.

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Then I will review the **Sprint Backlogs** of last 3 sprints.

- I will estimate how the sprints were going and which team member has completed how many tasks.



- I will also get to know that which team member has knowledge of Scrum and which one has not.

3- Then I will do the **Requirements Refinement**. I will change the Product Owner and give the responsibility to a person who have a knowledge of Requirement gathering.

- Clear user stories for each requirement ~~will~~ (highest priority requirements) will be generated.

4- I will then call a **Meeting** in which details of the highest priority tasks will be shared.

- Team members will be advised to refine the requirements of assigned tasks by themselves.
- Team members will be advised to divide the tasks into chunks.

5- Because of shortage of time and team members having issues in following Scrum I will introduce **Pair Programming**.

- The team member working better will be paired with inexperienced person.
- They both will divide the requirement into chunks and work together.
- I will speedup the development



process and in few days we will deliver some highest priority tasks to client.

6- After one delivery to client, we will then **Plan** for next Sprint and have regular Meetings.

- The persons will also be swapped with each other if one person becomes experienced in Scrum.

## Question - 4

### 1- Develop Project Charter:

- The project will not have a formal record and will not help to achieve new projects.
- Without project charter, there will be no written agreement between client and organization, and the development team and organization. So, there will be no assurity of timely delivery of project, hence client satisfaction will not be achieved.

### 2- Develop Project Management Plan:

- There will be no parameter to measure the performance and status of project.



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So the project can become a disaster in the end because the issues and performance will not be measured early. Hence late deliveries and client dissatisfaction will arise.

- The project will go on haphazardly because there will be no document for all the work and no planning for each task.

- Without planning, there will be a try and test process. Everyone will work by their own way and there will be a lot of waste of time.

### 3- Monitor and Control Project Work :

- There will be no client satisfaction as there will be no way to tell the work done and future work to client.

- Client will not be aware of status of project.

- Without monitoring the project, the weak parts of the project will go till the end and the team will not be aware of the performance.

### 4- Integrated Change Control :

- Without Change Control, there will be



no process to track changes and no knowledge of the impact of change on the performance of project. Also no knowledge of the work needed to implement this change.

- Some of the change requests are very harmful to project, so if there will be no process of approving change then all the change requests will be implemented and it may increase the cost of project.