Exam in IBE505

Kanditatnr: 3

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1)

a) I would start by implementing a strategic transformation, followed up by an acid test. There are four steps in the acid test.

- “Sustain the transformation and culture of innovation over a period of time.
- Significantly improve customer and stakeholder experience
- Attract and retain digital talent.
- Influence the industry in a positive manner.” (Nath et al., 2020, s. 76)

1)There are several steps we can make to get a faster delivery; I will mention five steps. Step one is to make a new digital software that can check warehouse inventory, tracking information, etc. Making a new system for the company is important. My second choice would be to start by reducing shipping options for the customer, I would rather start small and then increase by time. Thirdly, making sure every side of the business is communicating well and respect each other. And finally, offer one-two day deliver to UPS customers.

2) In order to implement a tracking system, we need to use the global navigation satellite system. (GNSS) In new smartphones there actual are built in GPS. So, my idea is to invest in smartphones for the drivers, so when the customer wants to track their package the are tracking the UPS driver.

b) There are several new emerging technologies that would be wise to invest in. GPS, for tracking packages and other things. Cloud computing, to store recite and more. 5G, for a faster and better connection. AI, big data, and analytics. (Nath et al., 2020, s. 95)

c) As CEO of the company I would oversee the employees, technologies, and the processes. To make sure they follow the goals set by the company.

d) I would implement a similar approach as Kim Stevenson from Intel. He encourages his employees do not hide the shame of failing, but to encourage them to see that they learned something from it so next time they do something innovative they are not afraid to fail. (Nath et al., 2020, s. 80)

e) Goal 5: Gender equality – This goal will hell both woman and men know that they have equal rights, so they can concentrate more on their job. (Nath et al., 2020, s. 41)

Goal 11: Sustainable cities and communities – smart cities. Smart cities would make it easier for the drivers to get the package to get to the customers, for instance they can check where there is traffic. (Nath et al., 2020, s. 42)

2)

a) A headset with a microphone and web camera must always be on. If you want to speak you need to press a “raise hand button” that the teacher can see. And the only way to speak is by using your microphone.

b) There are actually software out their that how implemented a way to monitor students home exams. Respondus is a assessment tool that lockdown browser, so the student cannot copy, paste or print anything. They need to auto capture their screen with a web camera. This gets a real time feedback while taking an online exam. (Respondus, w.y)

c) From the emerging technologies Respondus uses SDK which stands for software development toolkit (Rosencrance, 2019). SDK is built upon AI technology. (Nath et al., 2020, s. 95)

d) There are multiple challenges with online learning. One of these challenges is focus. The focus to not go to classroom everyday and to keep a schedule is difficult for many students. From grade one we have been programmed that showing up physically to the school sets the tone for obtaining knowledge. Suddenly being denied this opportunity is difficult for many students. Another challenge is the social interactions, the ability to ask and befriend other students is verry difficult when the only interaction to other students is only a name and not a face.

e) Goal 4: Quality education – My solution prevents students from cheating on the exam, so it prepares them when they get out in the real world and get a job. (Nath et al., 2020, s. 42)
Goal 12: Responsible consumption and production – Not traveling by bus or car or other means of transportation will reduce the carbon footprint. (Nath et al., 2020, s. 42)

3)

a) Using artificial intelligence, we can produce algorithms to predict when staff is needed. This will automate the process of getting nurses and doctors to help out, replacing text messages, phone calls and spread sheets. For instance, an incident occurs on the highway there are two people that need intensive care and rushed to the hospital. The corresponding ambulance doctors can type in what kind of injure and the amount of people involved in the accident. This message will be sent to a server and an algorithm will know how much staff is typically needed in that type of accident (Kim & Song, 2022).

b) Artificial Intelligence (AI), using algorithms and analytics. “AI is defined as a combination of technologies that allow machines or devices to sense their environment and generate actions to successfully achieve design goals.” (Nath et al., 2020, s. 109)

c) Software as a service (SaaS). The four different cloud models are public cloud, private cloud, hybrid cloud and multicloud (Nath et al., 2020, s. 106). The advantages are cost reduction and reliability. A device with an internet connection and web browser can access to SaaS applications. “This flexibility and accessibility make SaaS the most widely used form of cloud computing” (Nath et al., 2020, s. 106). The Disadvantages are service cloud being down for maintenance and other bugs. The cloud service closes due to competition and customers not using the service. Security can be both negative and positive looked upon. On one hand cloud computing services depends their entire business on the protection of data, and on the other hand employes or users of the cloud service needs to be careful that they do not leave their laptop unlocked or log on to unsecure networks, basically the ability to follow basic security rules (The ame group, w.y.).

d) Explain and show this solution to the people so they understand the importance of it. Raise awareness and make fond where the public can contribute with donations to help with financial situation. Another possibility is to team up with students taking the master’s degree in IT and suggest that making an algorithm or analysis for their final assignment.

e) Goal: 3 Good health and well-being – This solution would benefit the hospital staff making them more patient oriented instead of worrying about not enough people are here to help with the situation. (Nath et al., 2020, s. 41)

Goal 4: Quality education – Students being asked to make their final assignment something important will prompt them for better career ahead (Nath et al., 2020, s. 41).

Goal 8: Decent work and economics growth – Benefitting the hospital with more than one way (Nath et al., 2020, s. 42).

Goal 17: Partnership to achieve the goals – Creating a partnership with hospitals with spitting in funding and other educational purposes (Nath et al., 2020, s. 42).

4)

a) There are two types of business drivers strategies within the commercial sector, offensive strategy and defensive strategy (Nath et al., 2020, s. 19). If we use car manufacturers as an example. Most car manufacturers preference a defensive strategy. A defensive strategy "refers to protecting the business from competitors and disrupters" (Nath et al., 2020, s. 19). Tesla is good example of a company that is using an offensive strategy. "Tesla is trying disrupt the rest of the industry" (Nath et al., 2020, s. 20). Tesla takes risks and come with new break grounding technologies, while other more defensive company takes one step at the time to be sure that they do not end up as a failure.

c) "technical debt – or design debt or code debt refers to the implied cost of additional rework caused by choosing an easy (limited) solution now instead of using a better approach that would take longer. If technical debt is not repaid, it can accumulate "interest", making it harder to implement changes" (Nath et al., 2020, s. 228).

d) "Failure occurs when individual projects do not achieve expected business value or never reach completion and must be restarted. Critical indicators of the health of transformation such as the lack of IDT strategy, lack of top-down support, inward focus rather than industry sector trends and customer's perspective, mismatch of planning versus doing, too much focus on technology rather than cultural shift – causes are due to misaligned vision, economic and technological factors" (Nath et al., 2020, s. 328).

e) "Lights-out manufacturing refers to a situation where the entire production line is fully automated and the only role of people in the factory is for maintenance or repair purposes" (Nath et al., 2020, s. 178).

Resources

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