

Sean McLean

ITC 6000

Module 5 Assignment
CASE Tools

Identify and describe three examples of CASE tools for database design.

Three examples of computer-aided software engineering that enhance the efficiency and quality of software development processes are central repositories, Lucidchart, and erwin Data Modeler. Central repositories are a valuable resource because they can contain data all in one location and be used for collaboration, boosted visibility, and management of dependencies. The benefits of Lucidchart are having the ability to create diagrams and flowcharts to solve business problems and collaborate with team members more effectively. Erwin data modeler is a platform for modeling and schema development for data warehouses to help meet business demands and goals.

Compare and contrast each of the three examples.

The three examples are similar in that they all have collaborative features that pertain to their business needs and how their data is used. They also all have integration properties for business optimization and proper data management. They all serve different purposes though, as Lucidchart is for diagramming and visualizing data and erwin Data Modeler is for database design and modeling. Central repository is different from the other two examples because it is not a specialized tool, mainly being used as a primary database system for businesses.

Discuss the advantages of using CASE tools.

The benefits of incorporating computer-aided software engineering tools into business models are for its implementation and revision abilities in software project management. Its efficiency and consistency with the development tools and resources it offers improves workflows and productivity. The platform is also useful for business teams who can share important data diagrams and visualizations and improve communication and teamwork. Overall,

it helps businesses meet their requirements and deadlines as well as hitting budget constraints with faster response times and lower maintenance costs.

Discuss the disadvantages of using CASE tools.

Some possible disadvantages of using CASE tools are that it would possibly require additional training for its workers. It could also be more expensive to implement, so this could discourage companies from using it because of the time it would take for new skills to be acquired and the money and resources it could use up. There could also be a massive overhaul with the programs and tools already in place, requiring a lot of effort in adjusting to new systems being added and new streamlining methods between team members and project duties. System and program privileges per team member with new CASE tools could lead to poor communication and inadequate information sharing.

Conclude with a recommendation for or against CASE tools.

It would depend on the project where using CASE tools could be an asset to a business or just lead to more problems. A central repository would be beneficial in having a centralized storage system where all team members can utilize important data in one location. Having Lucidchart where data visualizations are valuable to a project could help with collaboration and presenting concise information. I would complete a thorough analysis of how CASE tools could help achieve business goals before incorporating them into a project. I would also make sure it fits into the business model where money and deadlines could be tight.

References

Testbook. (2023, May 17). *Software Engineering - CASE Tools: Learn About Types, Components & More!* Testbook. <https://testbook.com/software-engineering/software-case-tools>

Hewlett Packard Enterprise. (2024). *What is a Central Repository?* Hewlett Packard Enterprise Devlopment LP. <https://www.hpe.com/us/en/what-is/central-repository.html>

Erwin By Quest (2024). *erwin Data Modeler.* Erwin By Quest.
<https://www.erwin.com/products/erwin-data-modeler/>

Lucidchart Overview. (2024). *Diagram your people, processes, and systems.* Lucidchart. https://www.lucidchart.com/pages/landing?utm_source=google&utm_medium=cpc&utm_campaign=_chart_en_us_mixed_search_brand_exact_&km_CPC_CampaignId=1457964857&km_CPC_AdGroupId=57044764032&km_CPC_Keyword=lucidchart&km_CPC_MatchType=e&km_CPC_ExtensionID=&km_CPC_Network=g&km_CPC_AdPosition=&km_CPC_Creative=354596046394&km_CPC_TargetID=kwdr33511936169&km_CPC_Country=9001870&km_CPC_Device=c&km_CPC_placement=&km_CPC_target=&gad_source=1&gclid=Cj0KCQiAw6yuBhDrARIAsACf94RXTh0xn1BtOW5Pndx8JNo7p74Joo2lMzyk8mNyVJwPTIzUYx_iz4eoaaAppAEALw_wcB