Big Data Analysis with IBM Cloud Databases

Phase 1

Team members

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Definition and Design Thinking:

Design thinking is a problem-solving approach that focuses on understanding the needs and perspectives of the users or stakeholders to develop innovative solutions. In the context of your project involving big data analysis using IBM Cloud Databases, it's important to begin with a clear problem definition and apply design thinking principles to ensure that you address the right challenges and create valuable insights for your stakeholders.

Here's a step-by-step guide for Phase 1:

1. Empathize:

- Start by understanding the needs and expectations of your stakeholders. Identify who the primary users are and what their goals and pain points are.
- Conduct interviews or surveys with stakeholders to gather insights into their data analysis requirements and expectations.
 - Engage with data scientists and analysts to understand their technical requirements and constraints.

2. Define:

- Summarize the findings from your empathy phase and define a clear problem statement. This should articulate the specific challenges and opportunities related to big data analysis and IBM Cloud Databases.
 - Create a user persona or stakeholder profile to represent the primary users and their goals.
- Develop a clear, measurable objective for your project. For example: "The objective is to extract actionable insights from climate and social data to support data-driven decision-making."

3. Ideate:

- Brainstorm potential solutions and approaches for tackling the defined problem.
- Encourage cross-functional collaboration and diversity of thought to generate innovative ideas.
- Consider different data analysis techniques, tools, and methodologies that can be applied to the IBM Cloud Databases.

4. Prototype:

- Create a high-level plan for the analysis process, including the data collection, preprocessing, analysis, and visualization steps.
- Outline the key technologies and tools that will be used, including the specific IBM Cloud Databases services.
 - Develop a rough sketch or wireframe of how the final insights and visualizations might look.

5. Test:

- Share your prototype with a small group of stakeholders and gather feedback.
- Use the feedback to refine and iterate on your plan and design.
- Ensure that the proposed approach aligns with the expectations and needs of the users and stakeholders.

6. Define Success Metrics:

- Establish clear success criteria for your project. How will you measure the effectiveness of your big data analysis in providing valuable insights?
- Identify key performance indicators (KPIs) that will help you track progress and evaluate the impact of your analysis.

By following this design thinking approach in Phase 1, you'll ensure that your project is well-defined, user-centered, and aligned with the goals of leveraging IBM Cloud Databases for extracting valuable insights from extensive datasets. This sets the foundation for the subsequent phases of your project, including data setup, analysis, and visualization.