Project Design Phase-I

Solution Architecture

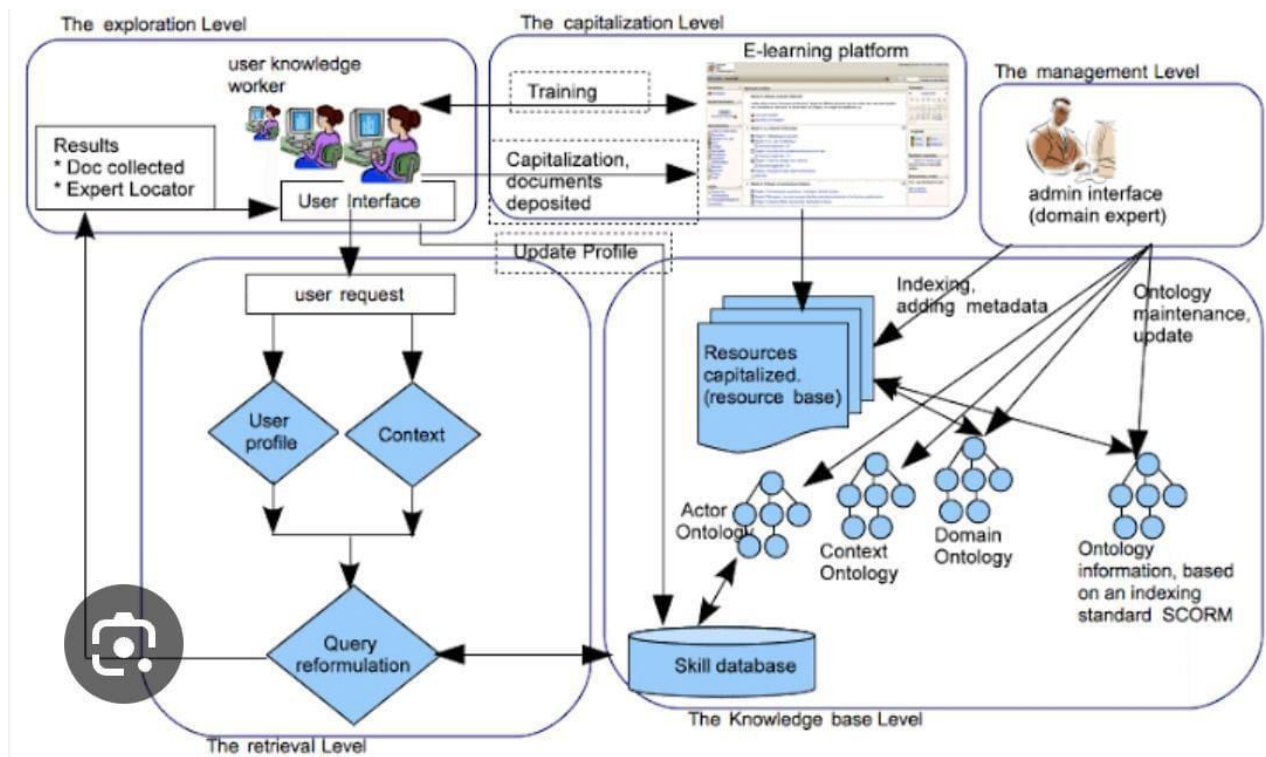|	
Date	19 October 2023
Team ID	69C717107694E308DCB4E850D983C9C8
Project Name	Transparent Education Data Management
Maximum Marks	4 Marks

Solution Architecture:

User Interface (UI): This component would enable users, including administrators, teachers, and students, to interact with the system, access data, and perform various tasks.

Data Management System: This includes the database and data storage infrastructure that securely stores and manages educational data such as student records, academic performance, and administrative information.

Authentication and Authorization: This component ensures secure access to data by authenticating users and managing their access rights based on roles and permissions.

Analytics and Reporting: A module dedicated to analysing the data, generating insights, and creating customizable reports for different stakeholders, providing valuable information for decision-making.

Solution Architecture Diagram:

Scalability and Performance: Infrastructure components for ensuring the system can handle a growing volume of data and users, with provisions for scaling resources based on demand.

Backup and Recovery: A mechanism for regular data backups and a robust recovery plan to mitigate the risks of data loss or system failure.

Real-time Notifications: A feature that provides instant notifications to relevant users about important updates, events, and changes within the educational ecosystem.

By integrating these components into the solution architecture, education data management systems can ensure transparency, security, and

efficiency in handling educational data, benefiting all stakeholders involved.