SALESFORCE DEVELOPER

PROJECT TITTLE : WORKFORCE ADMINISTRATION SOLUTION

TEAM ID : NM2023TMID0250

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PROJECT DESIGN PHASE – 2 :
TECHNICAL ARCHITECTURE

The technical architecture of a workforce administration solution encompasses the underlying technology and infrastructure that supports its operation. Below is an overview of the key technical components and considerations for such an architecture:

Hosting and Infrastructure:

Cloud-Based: Consider hosting the solution on a cloud platform like AWS, Azure, or Google Cloud for scalability, flexibility, and cost-effectiveness.

On-Premises: If necessary, you can choose to host the solution on your own servers within your organization.

Database Management:

Relational Database: Use a relational database management system (RDBMS) like MySQL, PostgreSQL, or Microsoft SQL Server for structured employee and HR data storage.

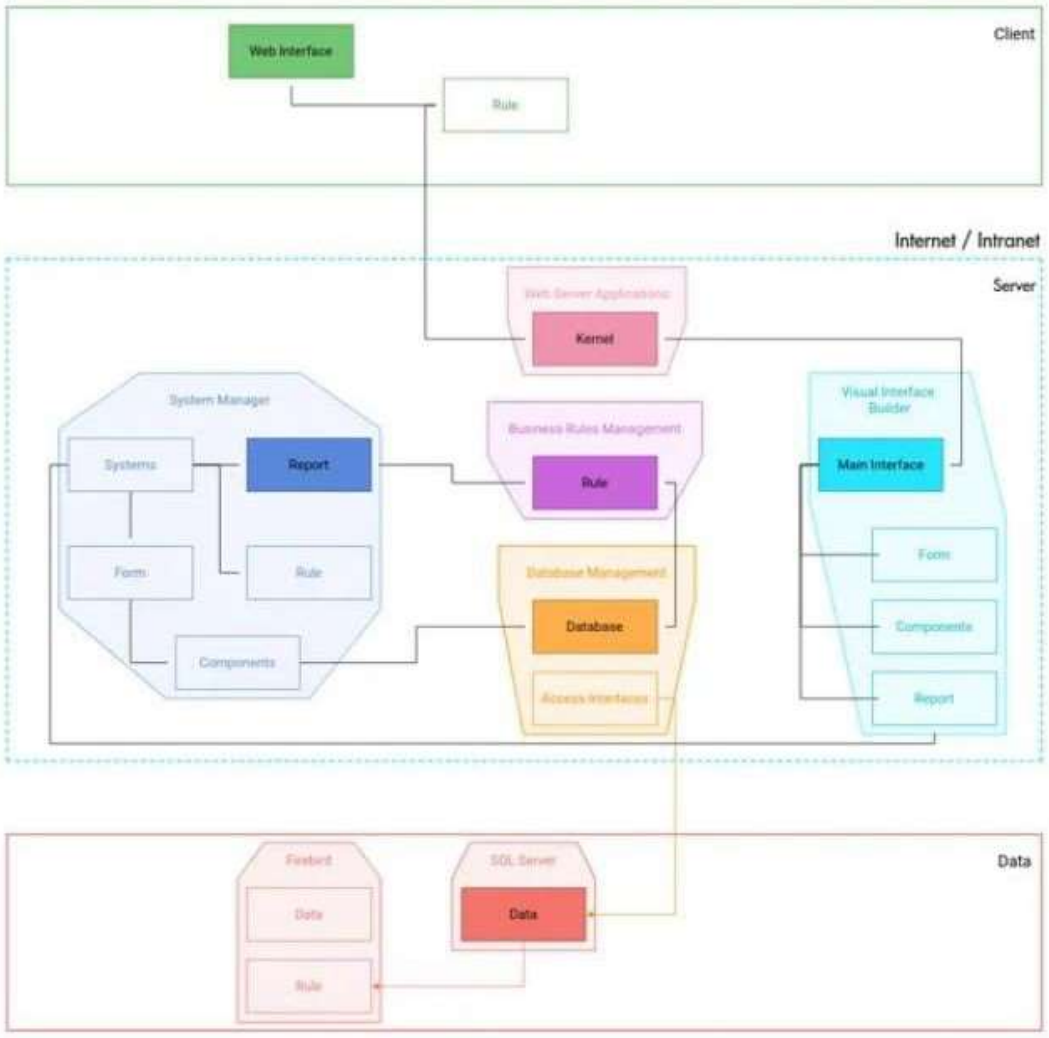
NoSQL Database: Consider a NoSQL database like MongoDB or Cassandra for managing unstructured data or handling large-scale data.

Application Framework:

Select an appropriate programming language and framework for application development. Common choices include:

Web Application: Java with Spring, Ruby on Rails, or Python with Django.

Mobile App: Native development (e.g., Swift for iOS, Java/Kotlin for Android) or cross-platform frameworks (e.g., React Native, Flutter).



User Interface (UI):

Web-Based Interface: Develop a web-based user interface for administrators, managers, and employees.

Mobile Apps: Create dedicated mobile apps for employees and managers for on-the-go access.

Data Security and Encryption:

Implement data encryption at rest and in transit to protect sensitive HR information.

Employ access controls and role-based permissions to restrict data access based on user roles.

Integration with External Systems:

Integrate with third-party systems, such as accounting software, time clock systems, and benefits providers, using APIs or middleware.