

# Application Engineering

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# Database Architecture

Applications Engineering involves creating individual software applications or programs for specific purposes or resolution of an issue. Building software solutions tailored to an organization's need and requirements that will improve daily operations. The focus is on coding, testing, and implementing standalone software applications.

Activities include the use of:

## **Database Architecture**

A database is an organized collection of data that is managed by a database administrator and is vital for many modern applications in various industries.

This involves designing a system to capture, store, and retrieve data in a reliable and secure manner. ISC has expert professionals on staff who are experienced in designing the structure of a database system, including data management and processing. This ensures the software system being developed meets the organization's needs and considers factors such as scalability, security, and performance.

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# Power BI, and Power Automate

## **Power BI**

Power BI is a business intelligence tool developed by Microsoft used to analyze and visualize large amounts of data by connecting to various data sources, such as spreadsheets, databases, and cloud services. Simplifying the process of turning raw data into meaningful insights that can create interactive reports, dynamic charts, graphs, dashboards, and visualizations that update in real-time, enabling users to identify trends, patterns, and other critical information as data changes.

With features such as natural language querying and machine learning, Power BI makes it easier to ask questions and get answers from your data.

Overall, Power BI helps organizations to make sense of complex data by making it more accessible and interactive, empowering employees to make better decisions and drive better business outcomes.

## **Power Automate**

Microsoft's cloud-based service, Power Automate, enables users to make an automated workflow between different applications and services. These workflows can streamline various tasks, such as data collection and processing, notifications, and approvals, with no coding or technical expertise.

With the help of Power Automate, users have the ability to link up to multiple applications, such as SharePoint, Dynamics 365, and Office 365, and create automated processes that are activated when certain conditions or events occur. As an example, a user could set up a system that automatically stores email attachments to a SharePoint folder, sends an email notification when a new file is added to the folder, and creates a task in Microsoft Planner to review the document.

With Power Automate, users can leverage pre-built templates and connectors for popular services, simplifying the process of creating customized workflows that meet specific needs. Integrating with Microsoft programs such as Power BI, and Teams, Power Automate gives users the ability to create robust end-to-end automations.