Overview of application development

TECHNOLOGIES AND PROCESSES SIMPLIFIED

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➢ INTRODUCTION:

- **Definition:** The process of designing, building, testing, and deploying software applications.
- **Purpose:** To meet user needs or solve real-world problems.
- **Platforms:**
  - Mobile devices
  - Web browsers
  - Desktops
  - Cloud environments

➢ Importance of Applications

•Integral to daily life and business operations.

•Examples:

- Social media apps
- Enterprise tools
- Cloud-based solutions

➢ Development Lifecycle:

Application development typically follows a structured lifecycle:

1. **Requirement Analysis :** Identifying user needs and goals.
2. **Design:** Creating a user-friendly interface and system architecture.(blueprint of application)
3. **Development :** Writing code using programming languages and frameworks.
4. **Testing:** Ensuring quality and performance through rigorous checks.
5. **Deployment :** Launching the app for users.
6. **Maintenance:** Regular updates and bug fixes to improve functionality .

➢ Technologies in Use:

•**Programming Languages:**
Dart, JavaScript, Python, Swift, Kotlin.

•**Frameworks and Libraries:**
Flutter, React, Angular, Django.

➢CONCLUSSION:

•Applications enhance digital experiences and drive innovation.

•Staying updated with trends ensures impactful development.