COMSATS University Islamabad Abbottabad Campus

Group members:

Hamza gul (FA22-BSE-086)

Shahzaib khan (FA22-BSE-100)

Group Members Participation

1. **Shahzaib Khan (FA22-BSE-100)**

➢ Researched and documented details for **Release 1.0**, including major features, release notes, and the explanation of monolithic architecture.
➢ Designed an architectural diagram for monolithic architecture.
➢ Researched and documented details for **Release 2.0**, including major features, release notes, and the explanation of client-server architecture.
➢ Designed the architectural diagram for client-server architecture.

2. **Hamza Gul (FA22-BSE-086)**

➢ Researched and documented details for **Release 3.0**, including major features, release notes, and the explanation of modular architecture.
➢ Designed the architectural diagram for modular architecture.
➢ Researched and documented details for **the Current Release (Office 365/2024),** including major features, release notes, and the explanation of cloud-native architecture.
➢ Designed the architectural diagram for cloud-native and microservices architecture.

Assignment Title: Evolution of the Architecture of MS Word.

Introduction

In this assignment, we explore the architectural evolution of **MS word.** The objective is to document its growth, changes in design, and major features over time, from the initial release to the current version.

Selected Software:

After thorough research, our group has selected Microsoft Word as the software system for this assignment. This choice allows us to illustrate architectural changes relevant to a globally recognized and widely used application.

Architectural Evolution

For each release of Microsoft Word, we provide the following details:

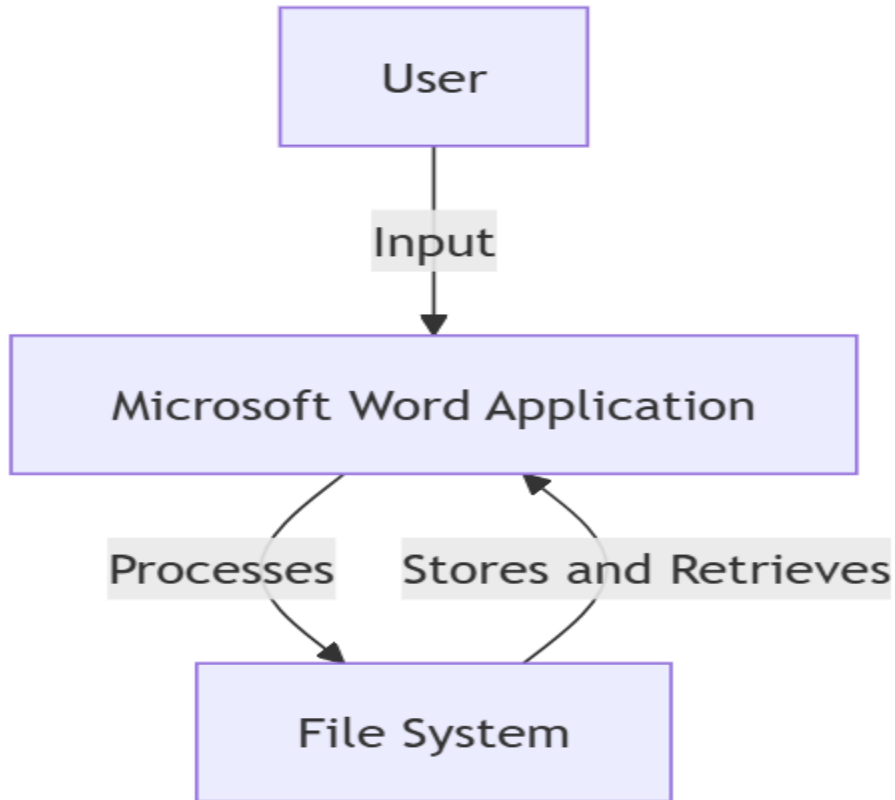### Release 1.0

- **Release Number:1.0**

- Major Features:

  - Basic word processing functionality.

  - Formatting text and paragraphs.

  - Print preview and basic printing options.

- **Architectural Diagram:**

  - Explanation of monolithic architecture for standalone operation.

-Release Notes:

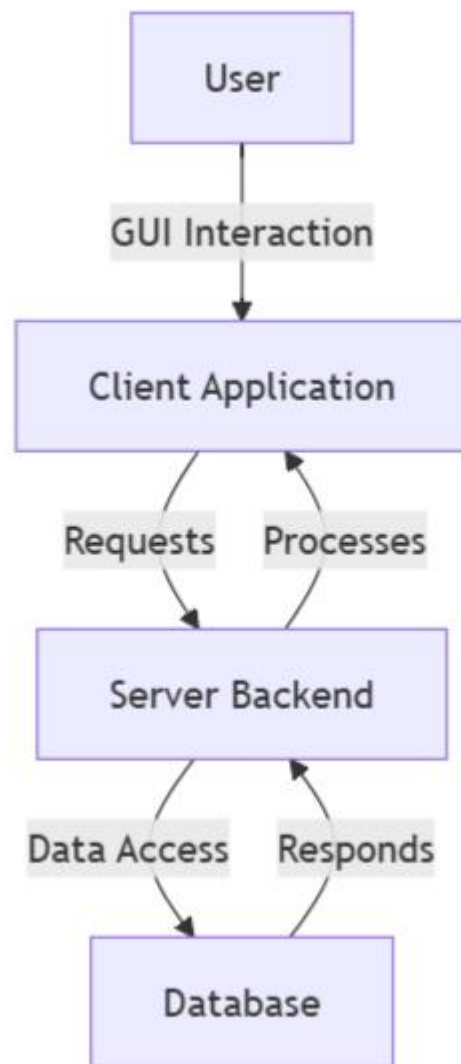 - Initial launch as a standalone application for word processing on MS-DOS.

Release 2.0

- **Release Number**: 2.0

- Major Features:

  - Introduction of graphical user interface (GUI).

  - Advanced formatting options (styles, fonts).

  - Support for mouse input.

- **Architectural Diagram:**

  - Shift to client-server architecture for GUI rendering.

- Release Notes:

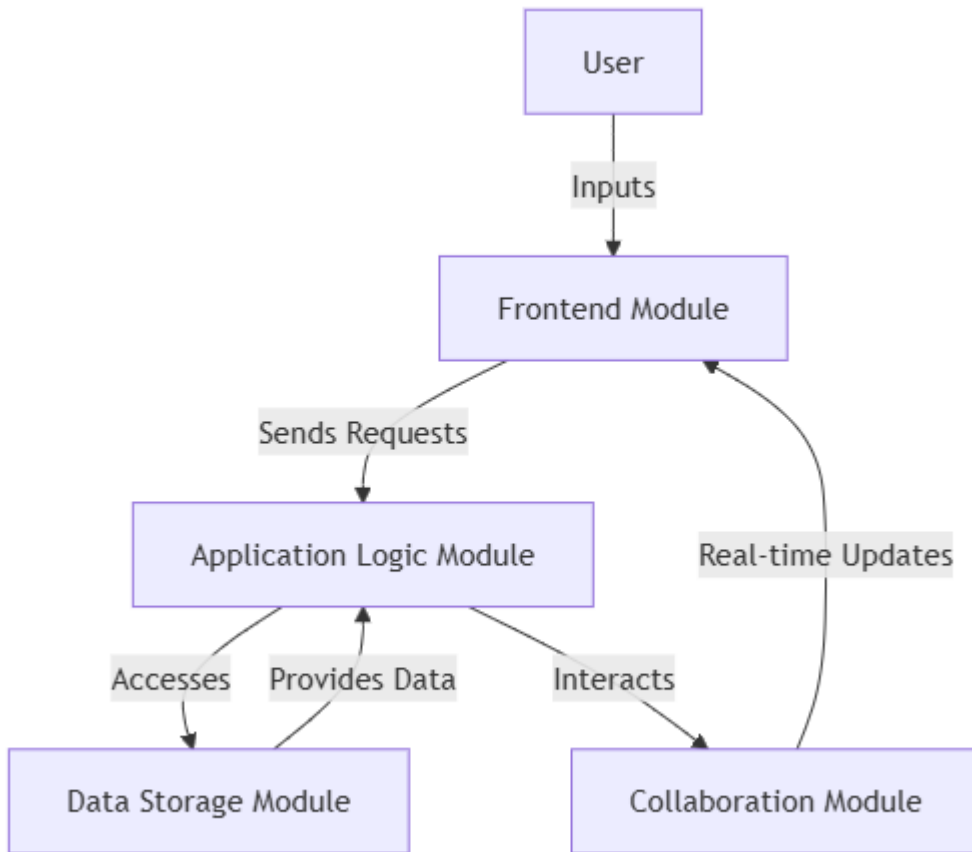 - Focused on improving user interaction and visual experience.

Release 3.0

- **Release Number**: 3.0

- Major Features:

  - Integration with Microsoft Office Suite.

  - Support for collaborative editing.

- Advanced document formatting and templates.
- **Architectural Diagram:**

  - Adoption of modular architecture for interoperability within Office Suite.
- **Release Notes:**

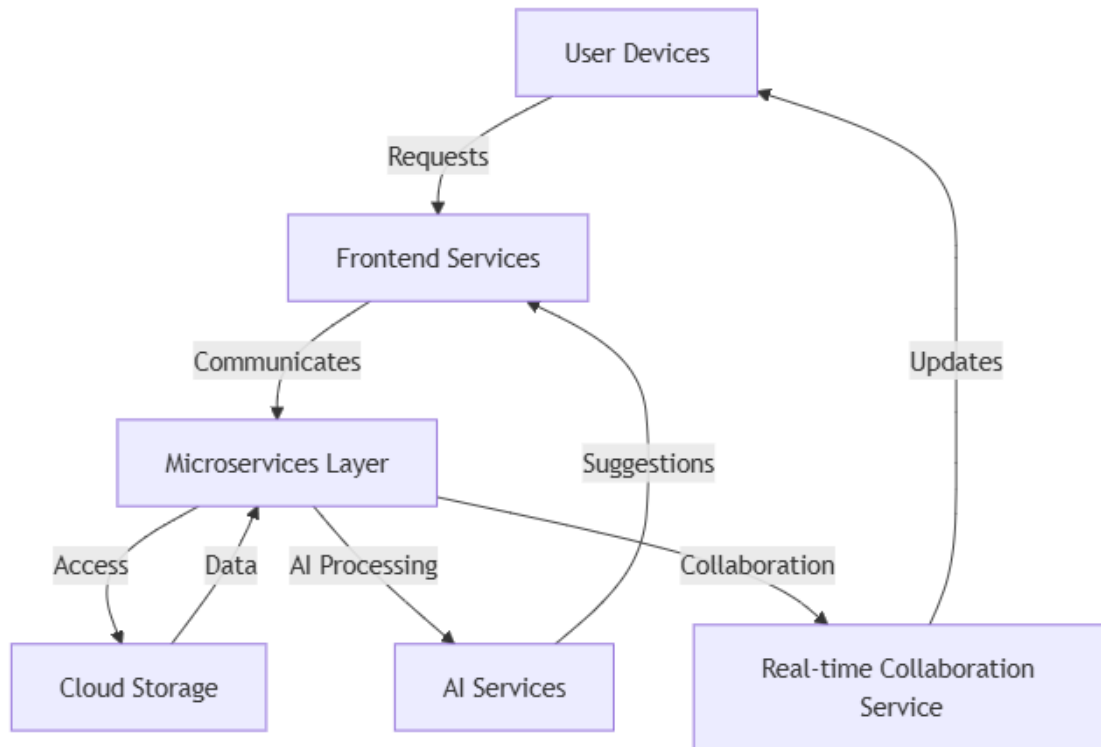 - Enhanced productivity with seamless integration across Office tools.

Current Release

- **Release Number:** Latest (Office 365/2024)
- Major Features:

  - Cloud-based document storage and real-time collaboration.

  - AI-powered editing and suggestions.

  - Cross-platform compatibility (desktop, web, mobile).

- Architectural Diagram:

  - Transition to cloud-native architecture with microservices.

- Release Notes:

  - Emphasis on accessibility, AI integration, and collaboration features.

Conclusion:

This report illustrates the growth of Microsoft Word's architecture, showcasing how it adapted to technological advancements and user needs. By understanding such evolutions, we gain insights into effective software design and development practices.