**Week 4: Exercises**

**New Features introduced in Spring Boot 3**

Spring Boot 3 brings several new features and improvements over its predecessors.

**New Features**

**1. Java 21 Support**

* **Compatibility**: Spring Boot 3 supports Java 21, taking advantage of the latest language features and enhancements.
* **Features**: Benefits from new language features and performance improvements introduced in Java 21.

**2. Spring Framework 6 Integration**

* **Upgrade**: Leverages Spring Framework 6, which provides support for the latest standards and improvements.
* **Features**: Includes updated dependency injection, new annotation-based configurations, and more.

**3. Improved Observability**

* **Observability Enhancements**: Enhanced support for observability tools and frameworks.
* **Metrics and Tracing**: Built-in integration with popular observability tools for better monitoring and diagnostics.

**4. Native Compilation Support**

* **GraalVM Native Image**: Improved support for compiling Spring Boot applications to native executables using GraalVM.
* **Benefits**: Faster startup times and reduced memory footprint.

**5. New Configuration Properties**

* **Property Improvements**: New and updated configuration properties for easier customization and setup.
* **Enhanced Documentation**: Better documentation and examples for configuration options.

**6. Deprecation of Legacy Features**

* **Deprecated Components**: Some older and less used features are deprecated or removed.
* **Focus**: Streamlining the framework by focusing on more modern and widely used features.

**7. Enhanced Testing Support**

* **JUnit 5 Integration**: Improved support for JUnit 5 and other modern testing frameworks.
* **Testing Features**: New utilities and annotations to make testing easier and more effective.

**8. Updated Starter Dependencies**

* **Starter Updates**: Refreshed starter dependencies to include the latest versions of libraries and frameworks.
* **Ease of Use**: Simplifies dependency management and ensures compatibility with the latest tools.