onboarding

Onboarding Guide

Welcome to the Task Manager application! This guide will help new contributors get started quickly, understand the repo structure, and follow best practices.

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1. Repository Structure

```
src/
  TaskManager.Domain/
  TaskManager.Application/
  TaskManager.Infrastructure/
  TaskManager.Api/
tests/
  TaskManager.UnitTests/
  TaskManager.IntegrationTests/
docs/
  design/
  api/
  guides/
  adr/
```

2. Key Concepts

- Clean Architecture: Separation of concerns by layer.
- DDD: Aggregates, entities, value objects, domain events.
- CQRS: Separate commands (write) and queries (read).
- TDD: Write tests first, then code.

3. Getting Started

1. Clone the repository.
2. Review the Sample Solution Architecture and Glossary.
3. Install .NET 9 SDK and required tools.
4. Run tests: `dotnet test`
5. Explore the codebase by feature folders (e.g., `Task/`).

4. Coding Standards

- Follow Copilot Instructions.
- Use feature-oriented folders.
- Write descriptive Conventional Commits (e.g., `feat(task): add create task use case`).
- Prefer async/await, DI, and value objects.

5. Adding Features

- See Feature Walkthrough.
- Start with TDD: write failing tests, then implement code.
- Update docs and API specs as needed.

6. Testing

- Unit tests for domain/application logic.
- Integration tests for infrastructure/api.
- Use xUnit, FakeItEasy, Testcontainers.

7. Documentation

- Architecture: `docs/design/architecture.md`
- API: `docs/api/tasks.md`
- ADRs: `docs/adr/`
- Diagrams: `docs/design/diagrams/`

8. Getting Help

- Review documentation in `docs/`.
- Ask questions in project discussions or issues.

Welcome aboard! Contribute, learn, and help improve the Task Manager application.