# Design Description

## Assumptions

All timestamps and date are represented in UTC time.

An assumption was made that GetUsers and GetUser returns the same type of user object. It was not clear in the task if this should be the case.

An issue may have several comments.

An issue may only have one assigned user.

StartDate and EndDate filters for GetIssues only cares about Date and not exact time.

Assigning a user to an issue does not mean that the issue is changing state to in progress. The issue will still keep it’s current state.

Transitioning from one state to the same state is a valid use case and will record the transition change. “the issue can transition to any state from any other state”.

## Design Decisions

Clean Architecture to separate code responsibility and business core logic from third party specific implementations. Service layer, Repository / Data layer.

The Core and Data assemblies only exposes the interface needed to operate on the library. The implementations are kept internal.

A simple error handling was added using null as error response value.