Automapper & Mapster & ManualMapper

automapper:

- Convention Model: Follows the convention-over-configuration principle, automatically mapping properties with the same name.
- Fluent API: Uses a fluent API for configuration, allowing customization of mappings as needed.
- Feature-Rich: Comprehensive feature set supporting flattening, conditional mapping, nested mappings, and more.
- Ease of Use: Known for its ease of use, widely adopted, and features a large user base.
- Convention for Naming: Typically follows a naming convention where destination property names match source property names by default.

mapster:

- Fluent API: Similar to AutoMapper, uses a fluent configuration API for mapping definitions.
- Performance: Emphasizes performance, claiming to be faster than AutoMapper in certain scenarios.
- Code Generation: Includes a code generation tool that can generate mapping code during compile time for enhanced performance.
- More Explicit: Considered more explicit, requiring more explicit mapping definitions.
- Immutable Objects: Good support for mapping to and from immutable objects.

manualmapper:

- Full Control: With manual mapping, you have full control over the mapping process. This can be advantageous in cases where you need to implement custom logic or transformations.
- Performance: In some cases, manual mapping might be more performant than
 using a mapping library, especially for simple mappings with a known and fixed
 structure.
- Specific Business Logic: Manual mapping allows you to incorporate specific business logic directly into the mapping process, which might be harder to achieve with a generic mapping library.

Example to resolve developer name using automapper:

Example to resolve developer name using mapster:

Example to resolve developer name using manualmapper:

```
Downton Aggregates DeveloperAggregate;
using Downton Aggregates PrejectAggregate;
using Modiata,
manaspace Application Queries, SprintTaskQueries, GetSprintTaskList

/ Zudources
public class GetSprintTaskListQueryHandler : RequestHandler
public class GetSprintTaskListQueryHandler : RequestHandler
private readeoly | DrojectAppository _projectAppository;
private readeoly | DeveloperAppository _developerAppository;
public GetSprintTaskListQueryHandler(IProjectAppository, DeveloperAppository)

/ private readeoly | DeveloperAppository _developerAppository y projectAppository y projectAppository y projectAppository y projectAppository, IDeveloperAppository developerAppository on _projectAppository = developerAppository = developerAp
```

References:

- <u>MapsterMapper/Mapster: A fast, fun and stimulating object to object Mapper</u> (github.com)
- https://automapper.org/
- <u>Understanding When to Use Mappers vs. Manual Mapping in C# | by J | Nov, 2023 | Medium</u>