#### AuditTrail API -

### Objective

Develop an audit trail .NET Core Web API that tracks changes in objects and returns the changed columns & values along with meta data.

# Requirements -

# 1. Audit Logging:

- The API should have inputs as object before change and object after change.
- Track only the changed columns when an update occurs.
- Support the following Audit Action Types using an Enum:

```
public enum AuditAction
{
    Created,
    Updated,
    Deleted
}
```

- The API should return only the changed columns & values along with metadata.
- Include metadata such as:
  - Timestamp (when the change happened)
  - User ID (who made the change)
  - Entity Name (which entity was modified)

#### Hints -

- > API should be written with the quality of an enterprise application.
- > Data can be persisted according to developers' preference.
- > This API will be used in an existing solution but will be an individual service.