.NET Rest API Server/Services

React App Client

In Memory Database

Particulates table (ParticulateDto):

- **Id: Guid**
- **Name: string**
- **Alias: string**
- **Description: string**
- **CropAssociations: List<string>**
- **RegionAssociations: List<string>**
- **SeasonalAssociations: List<string>**
- **Type: ParticulateType (enum: Fungus, Bacterium, Pollen, Other)**
- **DetectionStatus: DetectionStatus (enum: Detectable, Potential, NotDetectable, UnderReview)**
- **DetectionNotes: string**

ParticulateHistories table (ParticulateHistoryDto):

- **Id**: Guid
- ParticulateId: Guid foreign key to Particulates.Id)
- Date: DateTimeOffset
- Type: ParticulateType (enum: Fungus, Bacterium, Pollen, Other)
- Status: DetectionStatus (enum: Detectable, Potential, NotDetectable, UnderReview)
- Notes: string