<<Interface>>
Meter

+id : string
+type : "water" | "electricity" | "gas"
+name : string
+userId : string | null
+lastReading : Reading
+meterNumber : string
+createdAt : Date
+updatedAt : Date | null
+deletedAt : Date | null
+status : Status

+update(update : Partial<Meter>)

<<Interface>>
Reading

+id : string
+meterId : string
+value : string
+trend : number
+createdAt : Date
+updatedAt : Date | null
+deletedAt : Date | null
+status : Status
+lastEditor : User
+lastEditReason : string

+update(update : Partial<Reading>)

<<Interface>>
Issue

+id : string
+email : string
+name : string
+subject : string
+message : string
+status : "unresolved" | "resolved"
+createdAt : Date
+updatedAt : Date | null
+deletedAt : Date | null
+attribute : Status

+resolve()

<<Interface>>
User

+id : string
+customerId : string
+firstName : string
+lastName : string
+email : string
+createdAt : Date
+updatedAt : Date | null
+deletedAt : Date | null
+status : Status

+update(update : Partial<User>)

<<Interface>>
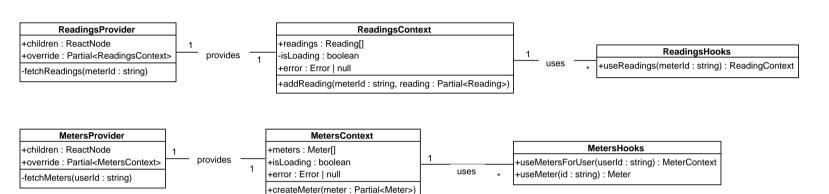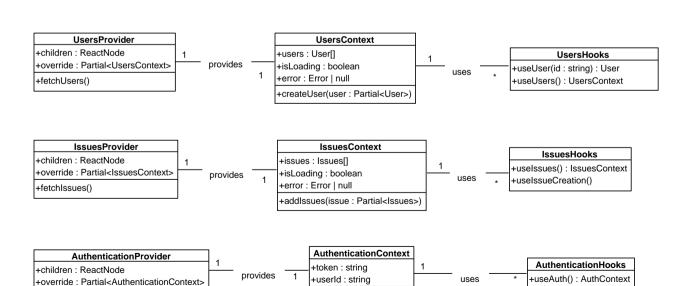**Status**

+saving : boolean
+saveError : Error | null
+changed : boolean
+lastFetched : Date

ReadingsProvider

+children : ReactNode
+override : Partial<ReadingsContext>

-fetchReadings(meterId : string)

1 — provides — 1

ReadingsContext

+readings : Reading[]
-isLoading : boolean
+error : Error | null

+addReading(meterId : string, reading : Partial<Reading>)

1 — uses — *

ReadingsHooks

+useReadings(meterId : string) : ReadingContext

MetersProvider

+children : ReactNode
+override : Partial<MetersContext>

-fetchMeters(userId : string)

1 — provides — 1

MetersContext

+meters : Meter[]
+isLoading : boolean
+error : Error | null

+createMeter(meter : Partial<Meter>)

1 — uses — *

MetersHooks

+useMetersForUser(userId : string) : MeterContext
+useMeter(id : string) : Meter

UsersProvider

+children : ReactNode
+override : Partial<UsersContext>

+fetchUsers()

1 — provides — 1

UsersContext

+users : User[]
+isLoading : boolean
+error : Error | null

+createUser(user : Partial<User>)

1 — uses — *

UsersHooks

+useUser(id : string) : User
+useUsers() : UsersContext

IssuesProvider

+children : ReactNode
+override : Partial<IssuesContext>

+fetchIssues()

1 — provides — 1

IssuesContext

+issues : Issues[]
+isLoading : boolean
+error : Error | null

+addIssues(issue : Partial<Issues>)

1 — uses — *

IssuesHooks

+useIssues() : IssuesContext
+useIssueCreation()

AuthenticationProvider

+children : ReactNode
+override : Partial<AuthenticationContext>

1 — provides — 1

AuthenticationContext

+token : string
+userId : string

+login()
+logout()

1 — uses — *

AuthenticationHooks

+useAuth() : AuthContext