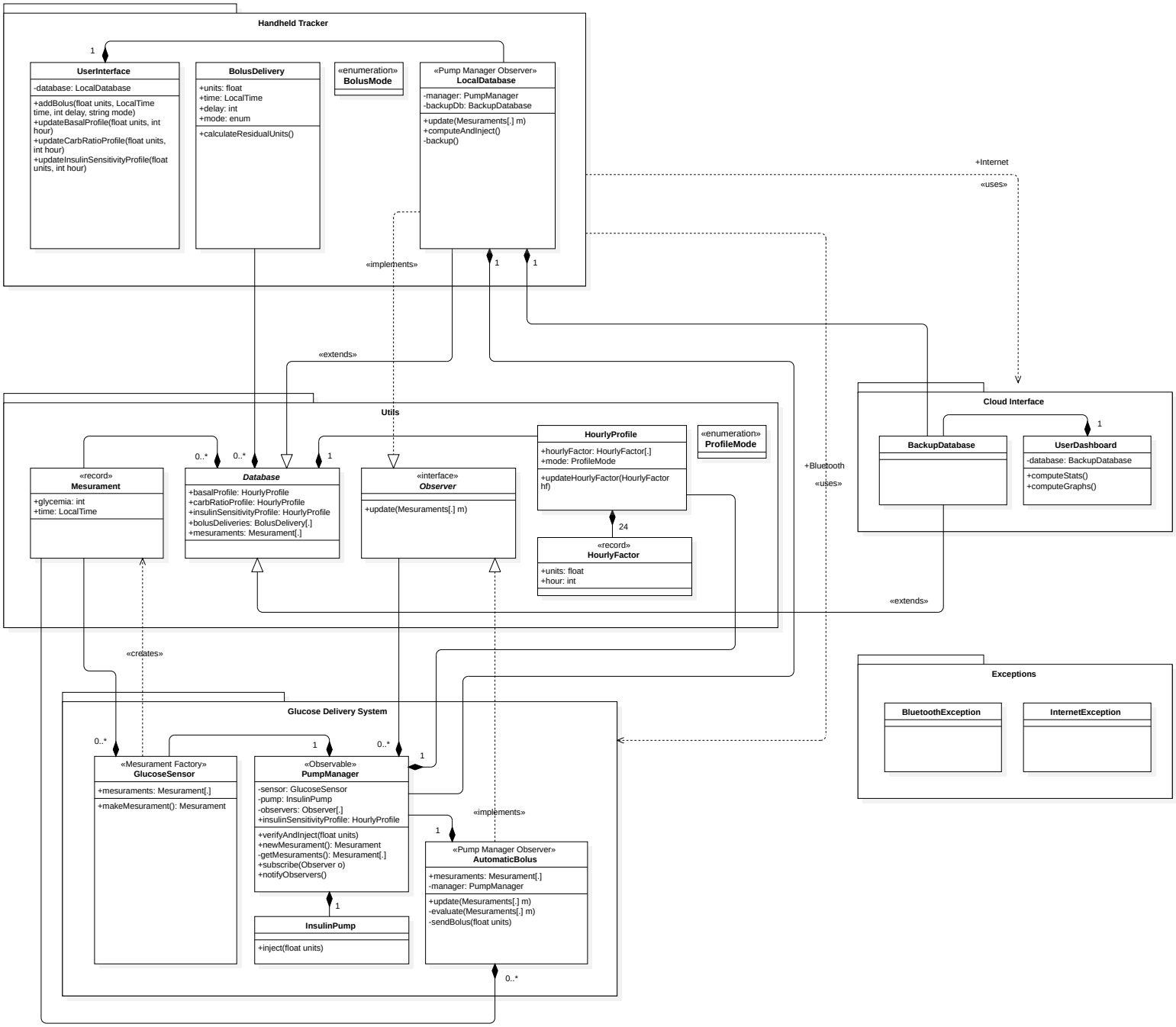
Handheld Tracker
UserInterface
-database: LocalDatabase
+addBolus(float units, LocalTime time, int delay, string mode)
+updateBasalProfile(float units, int hour)
+updateCarbRatioProfile(float units, int hour)
+updateInsulinSensitivityProfile(float units, int hour)
BolusDelivery
+units: float
+time: LocalTime
+delay: int
+mode: enum
+calculateResidualUnits()
«enumeration»
BolusMode
«Pump Manager Observer»
LocalDatabase
-manager: PumpManager
-backupDb: BackupDatabase
+update(Mesurements[.] m)
+computeAndInject()
-backup()
+Internet
«uses»
«implements»
«extends»
Utils
«record»
Mesurament
+glycemia: int
+time: LocalTime
Database
+basalProfile: HourlyProfile
+carbRatioProfile: HourlyProfile
+insulinSensitivityProfile: HourlyProfile
+bolusDeliveries: BolusDelivery[.]
+mesuraments: Mesurament[.]
«interface»
Observer
+update(Mesurements[.] m)
HourlyProfile
+hourlyFactor: HourlyFactor[.]
+mode: ProfileMode
+updateHourlyFactor(HourlyFactor hf)
«enumeration»
ProfileMode
«record»
HourlyFactor
+units: float
+hour: int
Cloud Interface
BackupDatabase
UserDashboard
-database: BackupDatabase
+computeStats()
+computeGraphs()
+Bluetooth
«uses»
«extends»
«creates»
Exceptions
BluetoothException
InternetException
Glucose Delivery System
«Mesurament Factory»
GlucoseSensor
+mesuraments: Mesurament[.]
+makeMesurament(): Mesurament
«Observable»
PumpManager
-sensor: GlucoseSensor
-pump: InsulinPump
-observers: Observer[.]
+insulinSensitivityProfile: HourlyProfile
+verifyAndInject(float units)
+newMesurament(): Mesurament
-getMesuraments(): Mesurament[.]
+subscribe(Observer o)
+notifyObservers()
InsulinPump
+inject(float units)
«Pump Manager Observer»
AutomaticBolus
+mesuraments: Mesurament[.]
-manager: PumpManager
+update(Mesurements[.] m)
-evaluate(Mesurements[.] m)
-sendBolus(float units)
«implements»