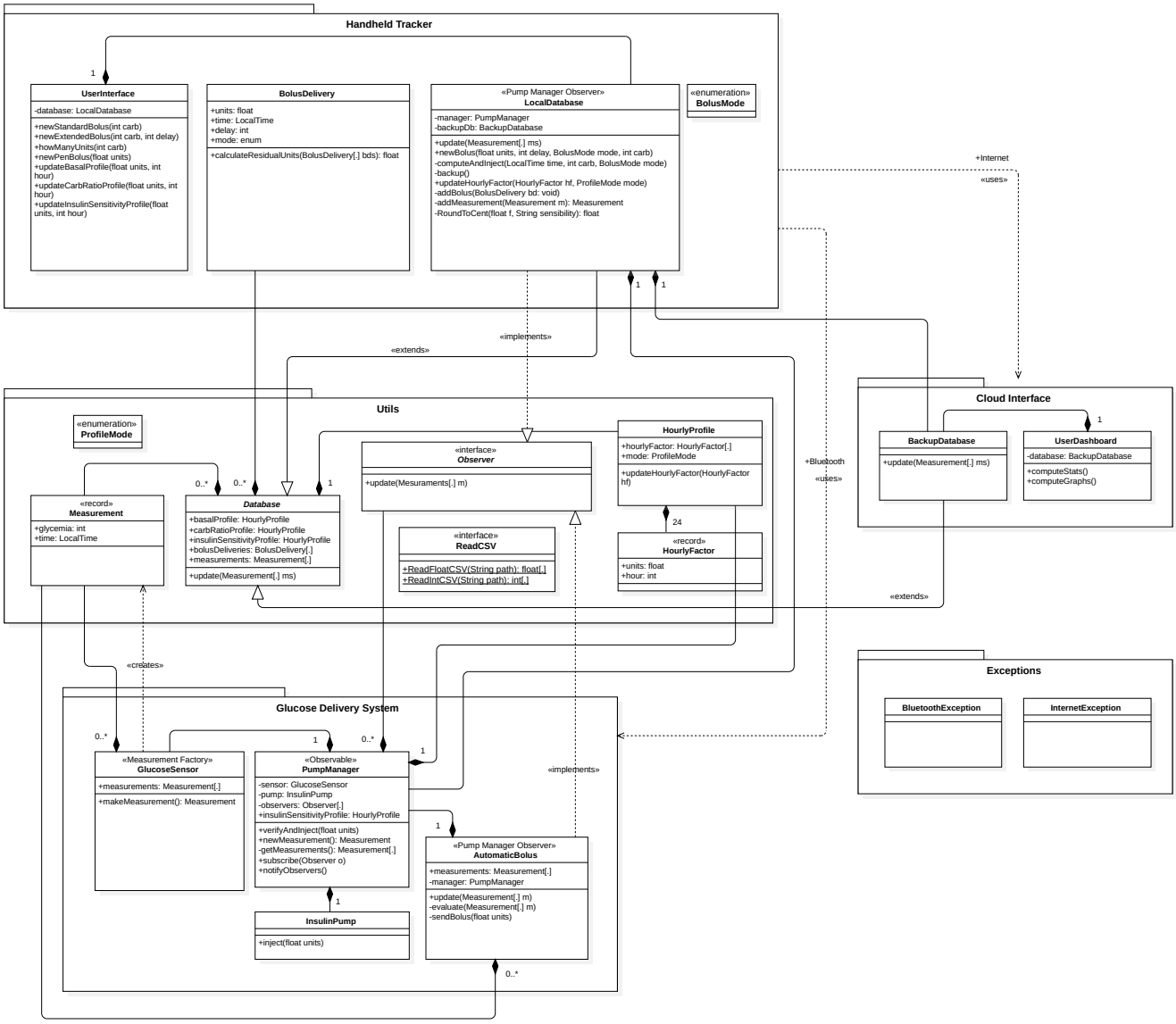
Handheld Tracker
UserInterface
-database: LocalDatabase
+newStandardBolus(int carb)
+newExtendedBolus(int carb, int delay)
+howManyUnits(int carb)
+newPenBolus(float units)
+updateBasalProfile(float units, int hour)
+updateCarbRatioProfile(float units, int hour)
+updateInsulinSensitivityProfile(float units, int hour)
BolusDelivery
+units: float
+time: LocalTime
+delay: int
+mode: enum
+calculateResidualUnits(BolusDelivery[.] bds): float
«Pump Manager Observer»
LocalDatabase
-manager: PumpManager
-backupDb: BackupDatabase
+update(Measurement[.] ms)
+newBolus(float units, int delay, BolusMode mode, int carb)
-computeAndInject(LocalTime time, int carb, BolusMode mode)
-backup()
+updateHourlyFactor(HourlyFactor hf, ProfileMode mode)
-addBolus(BolusDelivery bd: void)
-addMeasurement(Measurement m): Measurement
-RoundToCent(float f, String sensibility): float
«enumeration»
BolusMode
+Internet
«uses»
«implements»
«extends»
Utils
«enumeration»
ProfileMode
«record»
Measurement
+glycemia: int
+time: LocalTime
Database
+basalProfile: HourlyProfile
+carbRatioProfile: HourlyProfile
+insulinSensitivityProfile: HourlyProfile
+bolusDeliveries: BolusDelivery[.]
+measurements: Measurement[.]
+update(Measurement[.] ms)
«interface»
Observer
+update(Mesuraments[.] m)
«interface»
ReadCSV
+ReadFloatCSV(String path): float[.]
+ReadIntCSV(String path): int[.]
HourlyProfile
+hourlyFactor: HourlyFactor[.]
+mode: ProfileMode
+updateHourlyFactor(HourlyFactor hf)
«record»
HourlyFactor
+units: float
+hour: int
+Bluetooth
«uses»
Cloud Interface
BackupDatabase
+update(Measurement[.] ms)
UserDashboard
-database: BackupDatabase
+computeStats()
+computeGraphs()
«extends»
«creates»
Exceptions
BluetoothException
InternetException
Glucose Delivery System
«Measurement Factory»
GlucoseSensor
+measurements: Measurement[.]
+makeMeasurement(): Measurement
«Observable»
PumpManager
-sensor: GlucoseSensor
-pump: InsulinPump
-observers: Observer[.]
+insulinSensitivityProfile: HourlyProfile
+verifyAndInject(float units)
+newMeasurement(): Measurement
-getMeasurements(): Measurement[.]
+subscribe(Observer o)
+notifyObservers()
InsulinPump
+inject(float units)
«Pump Manager Observer»
AutomaticBolus
+measurements: Measurement[.]
-manager: PumpManager
+update(Measurement[.] m)
-evaluate(Measurement[.] m)
-sendBolus(float units)
«implements»