sd_reservation_allocation

ReservationManagement   **RequestManagement**   **DataAccessUtilities**   **DBMS**

ReservationManagement → ReservationManagement: checkReservations()

opt [some reservation must be allocated]

  loop [for all reservations to be allocated]

    ReservationManagement → RequestManagement: allocateReservation(passengerId, passengerLocation, destination)

    loop [try every two minutes, up to 10 times]

      ref sd_allocate

    RequestManagement ⇠ ReservationManagement: allocationResult

    alt [successful allocation (i.e., a taxi driver accepted)]

      ReservationManagement → ReservationManagement: setReservationAsDone()

      ReservationManagement → ReservationManagement: deleteReservation()

    ReservationManagement → DataAccessUtilities: updateReservationList(...)

    DataAccessUtilities → DBMS: update(...)

ReservationManagement   **RequestManagement**   **DataAccessUtilities**   **DBMS**