Online booking API service

Please design and implement a set of REST API to support online booking scenario:

Running instructions and most documentation on README.MD

1. The user should be able to see the full list of seats/rooms, and their booked/free status.
   1. GET: <https://localhost:8090/seats/user>, all seats, with status. GET: <https://localhost:8090/user/free> all free seats
2. The user can choose to book a free seat/room.
   1. PUT: https://localhost:8090/seats/user/{id}/reserve?user=irfman12
3. Once chosen, the seat/room is then temporarily secured for that user.
   1. Seat has life cycle, AVAILABLE, TEMPBLOCK, PAIDRESERVED
4. After the user pays, the booking will be finalized, the user gets a confirmation number.
   1. PUT: https://localhost:8090/seats/user/{id}/pay?userName=irfman12
5. The user can cancel after step 3, then the seat/room becomes free again.
   1. PUT: https://localhost:8090/seats/user/{id}/cancel
6. If after step 3, the user does not proceed to payment and does not cancel either, the seat/room will become free after a timeout period.
   1. FreeBlockedSeatsTaskThere runs every 1 minute, and queries all TEMPBLOCK seats, it sets them to available if they have passed reservation time + 5 minutes. See Seat Service
7. is no way for the user to cancel the booking after step 4.
   1. User can only cancel seat in TEMPBLOCK status
8. Booking status can be checked by providing the confirmation number.
   1. https://localhost:8090/seats/user/status/{confCode}
9. System admin can reset all bookings so that all seats/rooms become free at once.
   1. https://localhost:8090/seats/admin/freeall

 Note this is done in HQL in memory DB, so you need to populate the initial seats, <https://localhost:8090/seats/admin/createseats?num=10> for seats. More documentation on ReadME.MD

Other requirements:

* There is no need to develop a UI for that.
* There need to be automated tests to make sure that the API is functioning correctly.
* This is the API that will be called by trusted back-end components. There is no need to consider authentication and authorization.
* Number of seats/rooms and length of the time out period can be hard coded.
* Please note that there will be many users using the booking service concurrently.
  + Synchronized blocks on all write transactions.