

Week of 17 March, 2025

First Problem

See how we're working towards our goals



Objective

Given an array of integers nums and an integer k , you must find the number of continuous subarrays whose sum is equal to k .

O1

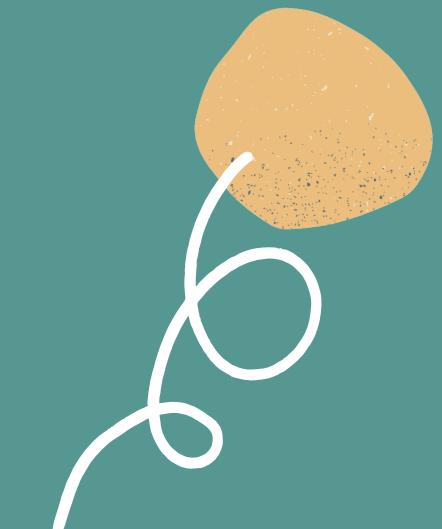
Discussion

O2

Solution

O3

Implementation



SOLUTION

- Check for retriccions
 - $1 \leqslant \text{nums.length} \leqslant 20,000$
 - $-1000 \leqslant \text{nums}[i] \leqslant 1000$
 - $-10^7 \leqslant k \leqslant 10^7$
- Check the cases for array with 1 and 2 values of lenght.
- Main solution

MAIN SOLUTION

- 3 pointers.
- Each pointer will represent a side of our subarray
- The size of the subarray will be increasing by each iteration until we cover the whole array

$K = 5$

-1

-2

8

2

3

5

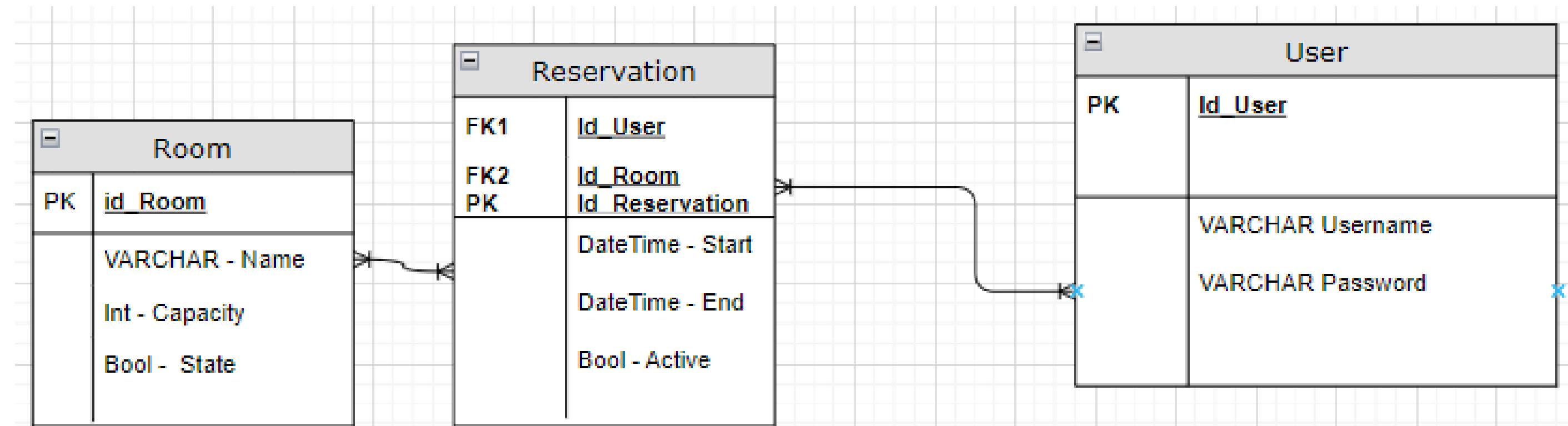
29 April, 2025

Room Reservation

Team 3



DATABASE





IMPLEMENTATION

- User Authentication process.
- Displayable Menu
 - Add Room
 - Remove Room
 - Make a reservation



CONCLUSION

This program has a lot of room for improvement, but due to the short time we had, we can consider we delivered a good product, on the future we can polish the features, allowing for a better management of the Rooms and the user, and also the implementation of a GUI that makes this program something a user with no experience could use and implement on their own.