				EIN/ED DOLLE
INDOOR	LOCAUZATION	USING	WIFT	FINGER PRINTIN

Problem identification: - Origin of idea - Locating labs and other blacks.

Frusters & parents.

Available.

Solution > 1) (PS -> Short coming

Line of Sight (Not for indoor)

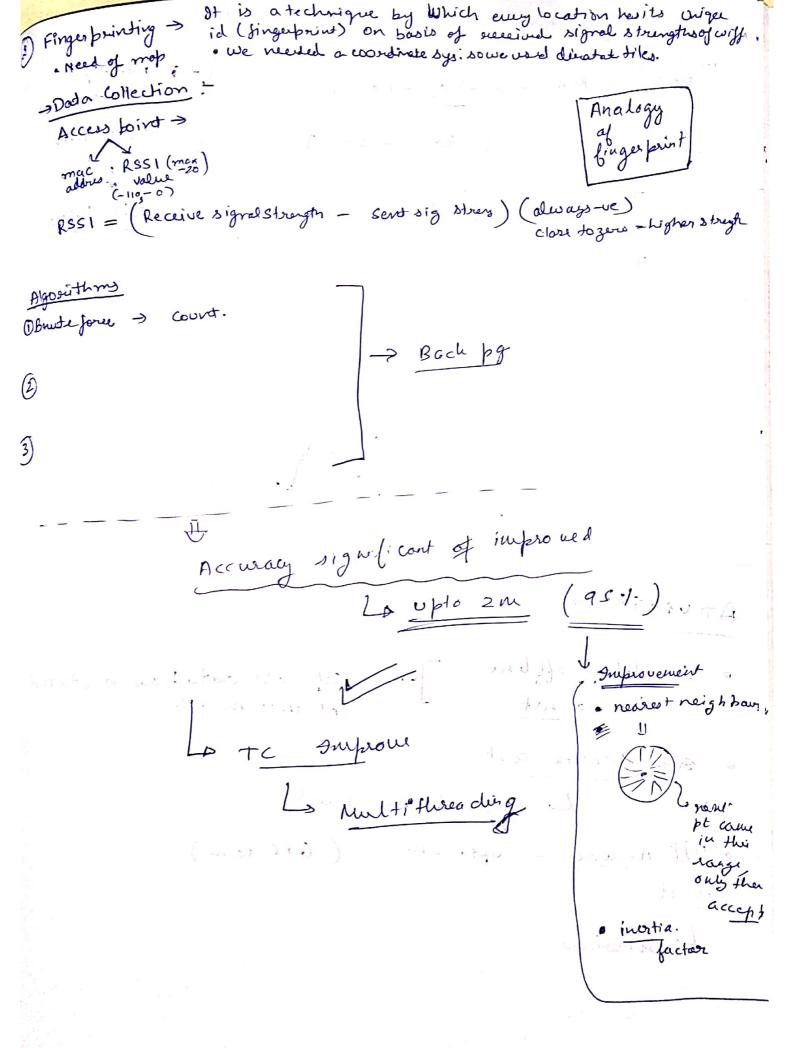
Not Good.

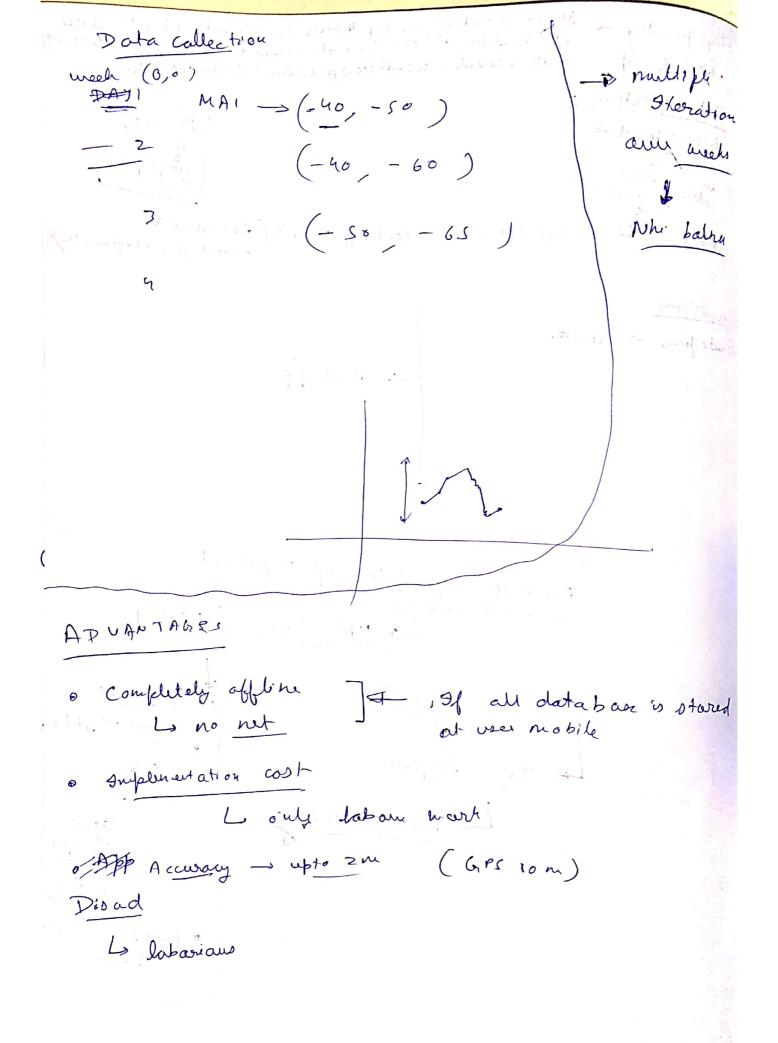
Line of Accomany (10 mtr).

RFID, Buetooth, Ultrasonic

Approaches;

D'Tribateration (Randomnees of queries signels) DAD - we needed to establish 3 and a points.

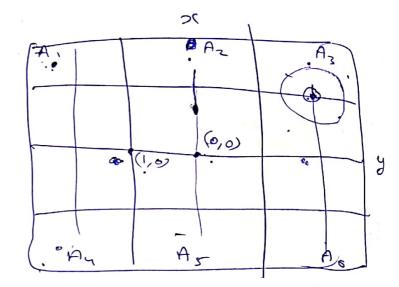




## Brute force

I- HOROAGH -I

latile -> C++ 2mb F. → c2++



· Explain

· How the counts of each file updated.

- · why duplicates were important (weights)
- . But they carried problems de which is explained by the given test case.
- · one A? connot uniquely identify a position.

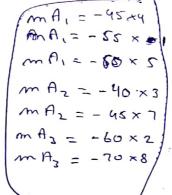
((1,0).csw

(0,0).080 60 entris m Az

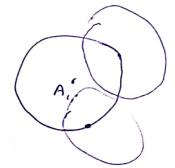
mAo-

Test Corp





10 mA1=-45 x 10 mA2=-80 m/s m A2 = - 70 x mA3 = -30x 5



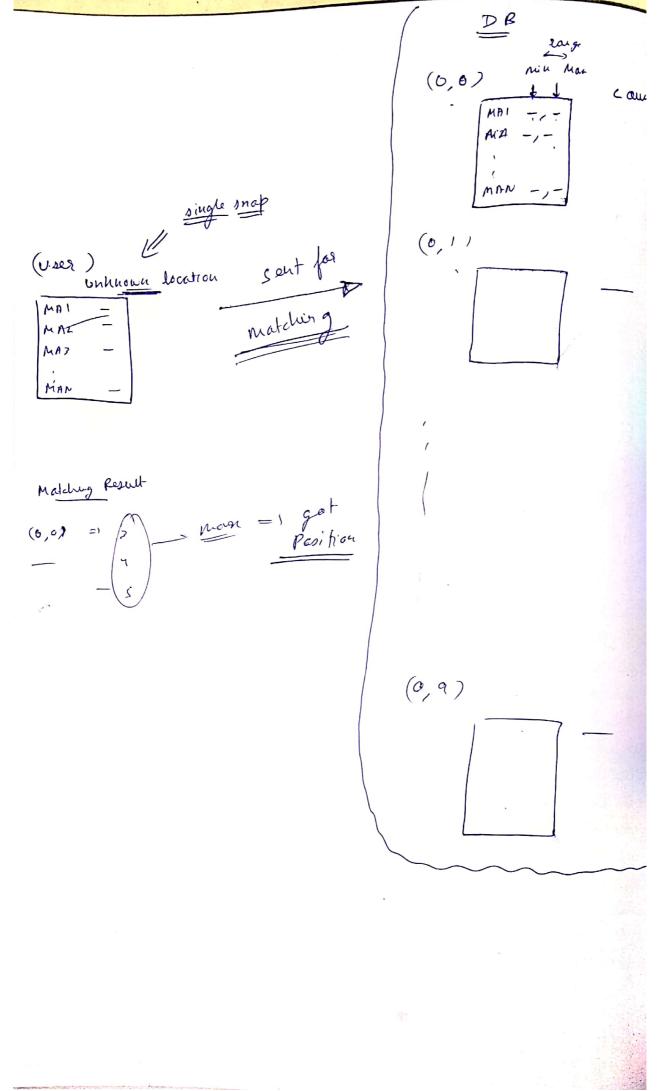
mA, = -45 mAz = -40 mAz = -60

Oni que Apprach - I -> Removed all duplicates Croblems · Number of entries in each according were not uniform/some · Dy on Accouracy declined ( ) not accounting for wight m A, ->-50 m A, -> - 50 m A, -50 mA, -> -45 m A, -> -45 Approach III Range File = mf, -> us entries = mA, -> u7 we created range from The given data by using entry - mA, - 46 the min & more value (Should be considered of a farticular AP in a but not counted in priv alga) [So RANGE] n fale-Range -> [min, mar] But due to the presence of outliers, our mon value becomes invalid. Consider this data:-45,46,47,50,61 Range is [45, 61]

This was wrifted by using SD. We considered a threshold for SD. if SD exceeds threshold, that indicated presence of outlier.

But should be [45,50] 61 is outliet.

removal of outlier I we do not need to care about min value because the best signal strength cannot get wrongs So we just consider difference between consecutive values to be the deciding factor. - s we chose a threshold volve of (5) for the difference. . List of all mac-some-sig. · Sort · Iterate. · 2 R[i] - A[i+1] > 5 galar sagar sagar renove A (i+1); cares were hondled 7 Same sint since no bellowiour 45, 46,47, 54, 55, 56,20 wie in the form of the state of the the property of the work of the second of the 12 of the survey Marie 1 and the second of the second o 



· why ubuntu? · why not abous?

· Explain tralateration?

· Standard deviation? > Apr. 3.

· Ace es point, rocker, signal muldiplier ?

· RSSI nyative value mason?

· CS V

· file ogstern in Python

· For I minute ?

" Multiple floors ?

Draw-). Variation of signal streng on same addry.

Obstacles dipvaries the strager

