3.ANALYSIS

Reliability:

Reliability is the degree to which an assessment tool produces stable and consistent results. Types of Reliability. Test-retest reliability is a measure of reliability obtained by administering the same test twice over a period of time to a group of individuals.

Flexibility:

Flexibility is the ease with which the system can be reused, deployed, and tested.

Performance:

The system must be interactive and the delays involved must be less. So in every action-response of the system, there are no immediate delays. In case of opening windows forms, of popping error messages and saving the settings or sessions there is delay much below 2 seconds, in case of obtaining outputs there should be quick evaluation and other operations to be performed.

Security:

There will be no major security breaches for the system as it will be used mainly by the professionals and not everyone in the system. They should be careful in order to prevent the data from leaking outside. They should be also careful regarding any hacks that may occur.

Data Analysis:

The main data here in our picking system is the name of our items and their locations in the warehouse. The locations will be in form of co-ordinate points.

ITEMS	X COORDINATE	Y COORDINATE	PRICE(each in Rs.)	QUANTITY
Watches	50	35	1000	300
Televisions	37	39	40000	100
Bags	26	35	500	500
Books	4	6	500	1000
Mobiles	2	8	15000	300
Laptops	7	5	45000	200
Refrigerators	9	12	50000	100
Air Conditioners	42	36	35000	100
PenDrives	3	5	2000	400
HDD	24	37	6000	250
Flash Cards	45	20	5000	150
Bottles	35	8	300	675
Fans	9	24	1000	570
Ear Phones	5	24	1500	500
Electic Bulbs	8	8	150	450
Deodrants	33	26	700	400
Vaccum Cleaners	36	40	5000	150
Sandals	43	25	300	850
Cameras	29	24	25000	225
Power Banks	46	27	5000	200
Blankets	25	37	300	700
Hair Dryers	18	26	2000	500
Trimmers	22	24	1000	600
Soaps	18	20	50	5000
Washing Machines	29	35	40000	150
Shoes	20	41	2000	1000
Goggles	30	42	1000	1050
Kerchiefs	35	45	5	900
Cosmetcis	44	21	600	700
Shirts	15	17	1000	4000
Pants	12	23	800	4000
Chairs	23	32	100	600
Tables	24	39	500	250

3.1 Available Data in Ware House

Here in our system we assume the warehouse as a co ordinate system and represent the points with the items with points. In the above mentioned datasets the x coordinates and y coordinates represent the ones on the X-axis and Y-axis respectively. The prices and the quantity of the items are also mentioned.