

a) As this system is very complicated the only development approach suited is structured approach. The system should be carefully planned to minimise possible errors, as operation of rall network will depend on that system leg. if system feils austomers won't be able to buy tickets) But as the development will be complex, more than one approaches can be used, for example prototyping approach may be used for bouch screen design. b) The main factor to be considered is whethere there is hardware available to make such a system. This is a vory important factor, as if there is no hardware awailable, the system conit be built.

Another factor is how reliable and the available hardware and software will be as reliability is very important for this system.



c) i) First of all customer decides on lestination.
Data required is ontered using touchscreen-destination
type of ticket (single, return, weekly ete), type of tare
(full, child, concession ete). System searches prices
deterpase to get the price of required Lichet, Price
is calculated and displayed.
a) i) austomer enters tienet details using touch
sereen ( things line destination, ticket type (return, single ex
fare type (full, student, child ste)).
2) System accepts entered data, searches prices detabase
for price to certain destination from given station.
3) Price 13 calculated according to ticket and forp types
4) Price is displayed.
5) archomer pays for dichet [using cash or EFT POS)
6) money is accepted, and it applicable change
7) If applicable change 13 calculated and given out.
8) Vicked is printed and snon to the customer.
g) Transaction is recorded and stored.



jî)	Welcome to City Rail	
	Main Menu	
	(touch a box for ex-required action)	
	Buy a Liout	
	Check timetable	
	Cheek train arrival	
	plan your journey	
	Helpy	
	( placed in the middle)	

d) One group of travellers who may have a major problem to with using the system are people with very poor eysisht or completely blind.

The heat way to solve this problem would be to get one of someone from station staff to assist them in buying tickets and getting other relevant information.

Perhaps on major stations special staff with very good patience and communication skills can be employed to assist people with disabilities using rail network.



e). Bègn
Get user dest.
Set count to/1
Set count to court +1.
While count < 100
Do search for user deal.
It user/des & found
Display Userder
Gel num Single and Num Return
It was the display "muali
Begn
Get user dest.
Find match for user dest in desidatebase.
Gel Num Single and Num Return.
Price NumSingle = Destpriex Numsingle
Price Num Return = Destprice x Num Return.
Total price = Price Num Single + Price Num Return.
Display total price
End.