

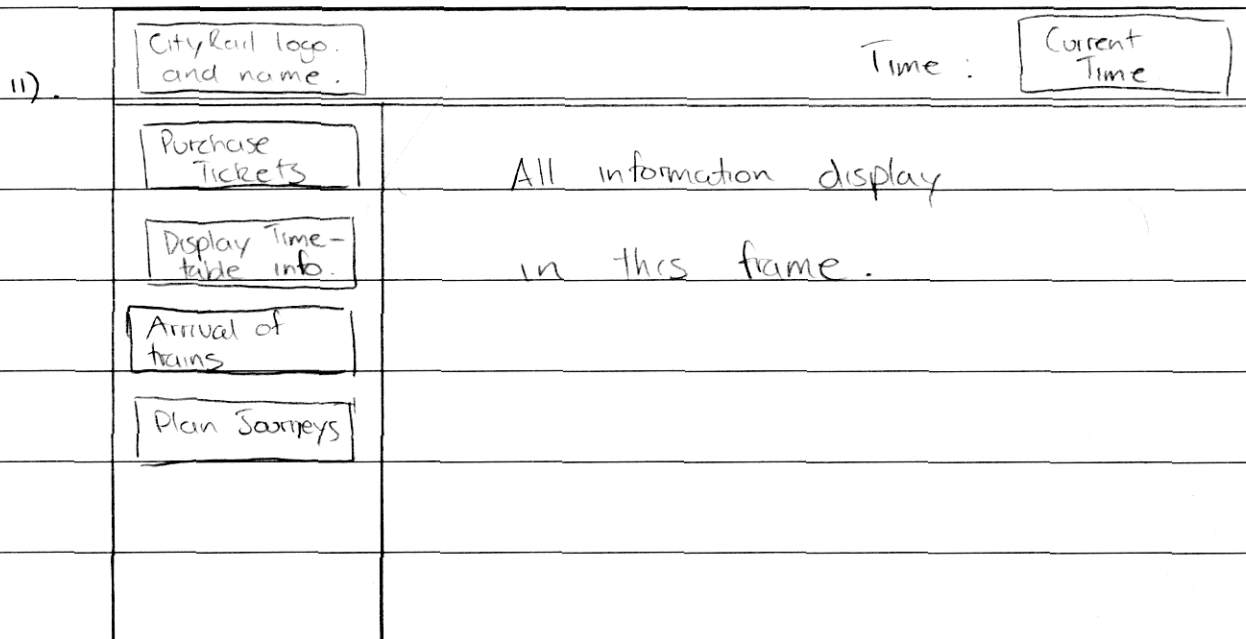
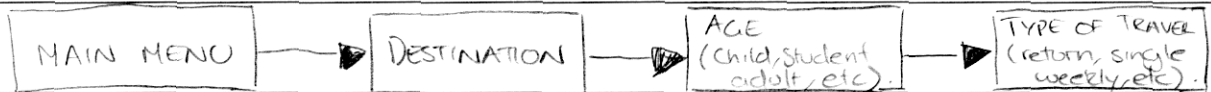
Question (22)

a) The most suitable approach for this system would be the structured approach. The creation of such a program is difficult, it is a new system and thus ~~it~~ must be created from scratch. Also the fact that ~~the problem is not clearly understood~~ this is a large project contributes to the use of the structured approach as the structured approach is better suited to larger projects.

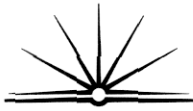
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b) One of the most important factors in determining technical feasibility is "does the hardware exist". This is important because if the hardware doesn't exist to perform all the required functions then there is no ~~point~~ point in creating such a program. Also another important factor ~~is~~ to be considered is "is there a programming language able to support all required functions". If there isn't a language capable of producing all the objectives then the program ~~cannot be created~~ is not worth making or possibly some of the functions could be removed.

c) i). The storyboard to use would be linear as only the purchase of tickets is to be described.



d) This type of program can be a major problem to blind people. ~~as touch screens are smooth and~~ One possible solution to this is to add a microphone onto the machine so that destinations can be said. If blind people want to go to the city all they need to do is say "city", "adult", "return" and insert the money. This is a possible solution to the problem.



e) BEGIN costCalculation.

set NumSingle to 0

set NumReturn to 0.

~~UserDest~~ UserDest. = User INPUT.

~~NumSingle~~ For index goes from first cell of array to one

~~hundredth~~ hundredth cell of array

IF ~~destination~~ destination[index] = ~~UserDest~~ destination[index].station = UserDest.

THEN

return destination[index].~~station~~.

ENDIF

User INPUT number of tickets

IF ~~single~~ ~~single~~ ~~single~~ oneway

THEN

~~NumReturn~~ ~~NumSingle~~ let NumSingle = number of tickets

ELSE

let NumReturn = number of tickets

ENDIF

set TotalFare = destination[index].