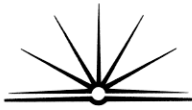


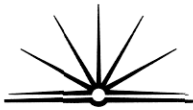
a) A structured development approach would be most suited for this system. The structured approach would make sure that each part of the system is running correctly and to the requirements of the system. This is the most expensive approach, however it would be worth the costs as any errors in the system could greatly inconvenience people. Errors could be from miscalculation of ticket prices to displaying train delays when they aren't any. These are important factors, so the system needs to be carefully constructed with much attention to details.



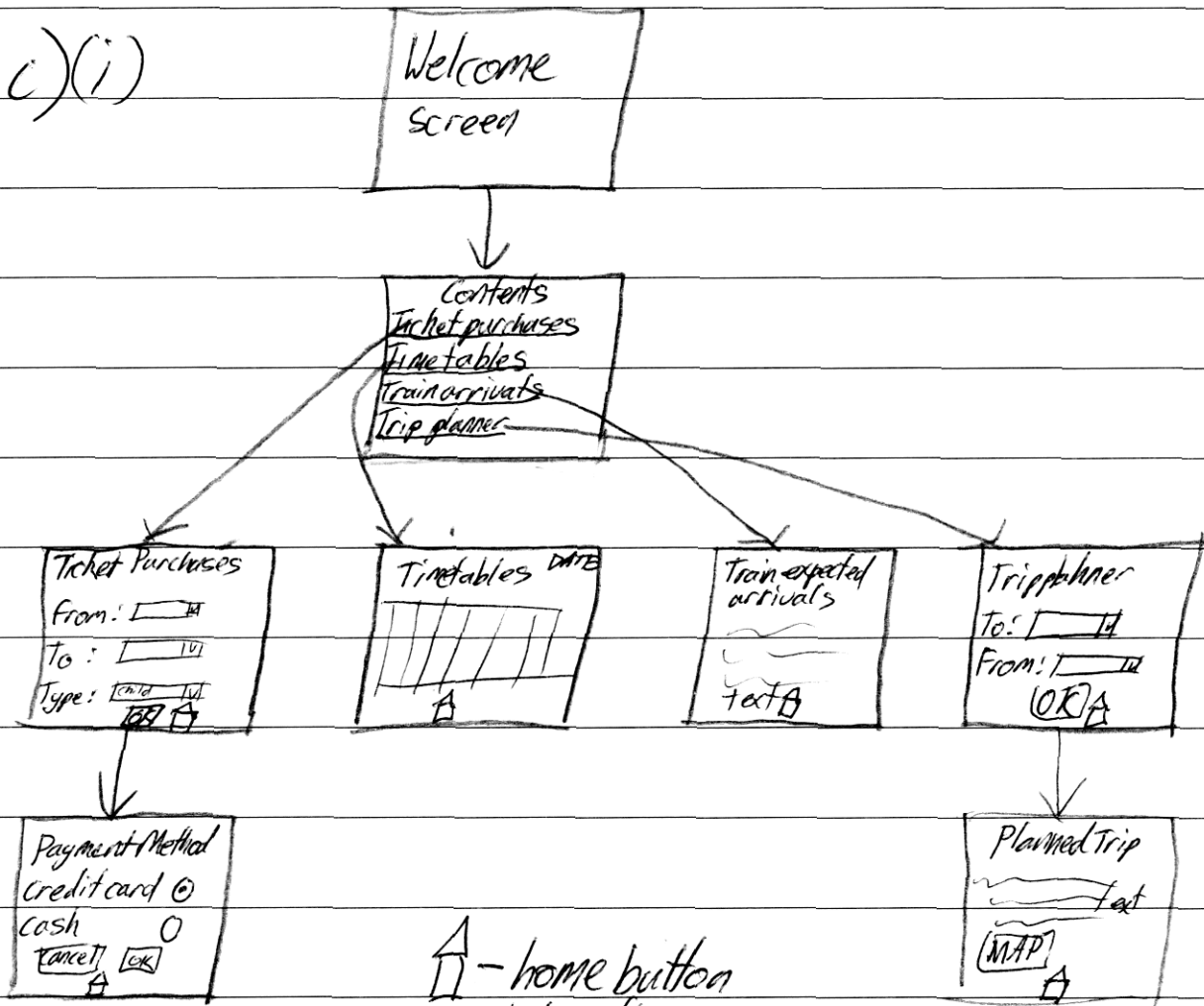
b) Two key factors in the technical feasibility would be: can the ~~touchscreen~~ computers display all <sup>the</sup> ~~these~~ information with only a touch screen as input and will there be enough ~~ten~~ technical staff to supply maintenance to the system.

By using only touch screens, it limits the abilities of the user. They are unable to enter words unless a keyboard is displayed on screen, defeating the purpose of a touch screen. If a traveller wishes to make an inquiry about travel to a certain place, they would need to go through all the place names rather than being able to enter the name and have the system search for it. Will the touch screen be an advantage or an inconvenience?

If a computer terminal breaks down, will there be ~~accurate~~ someone with the ability to fix it before many people are inconvenienced? By using technology it is harder to fix once broken, as opposed to replacing a tired employee. The computer may never break down on its own, however vandals may decide to break it. Will the existing staff have the capabilities to quickly fix the problem?

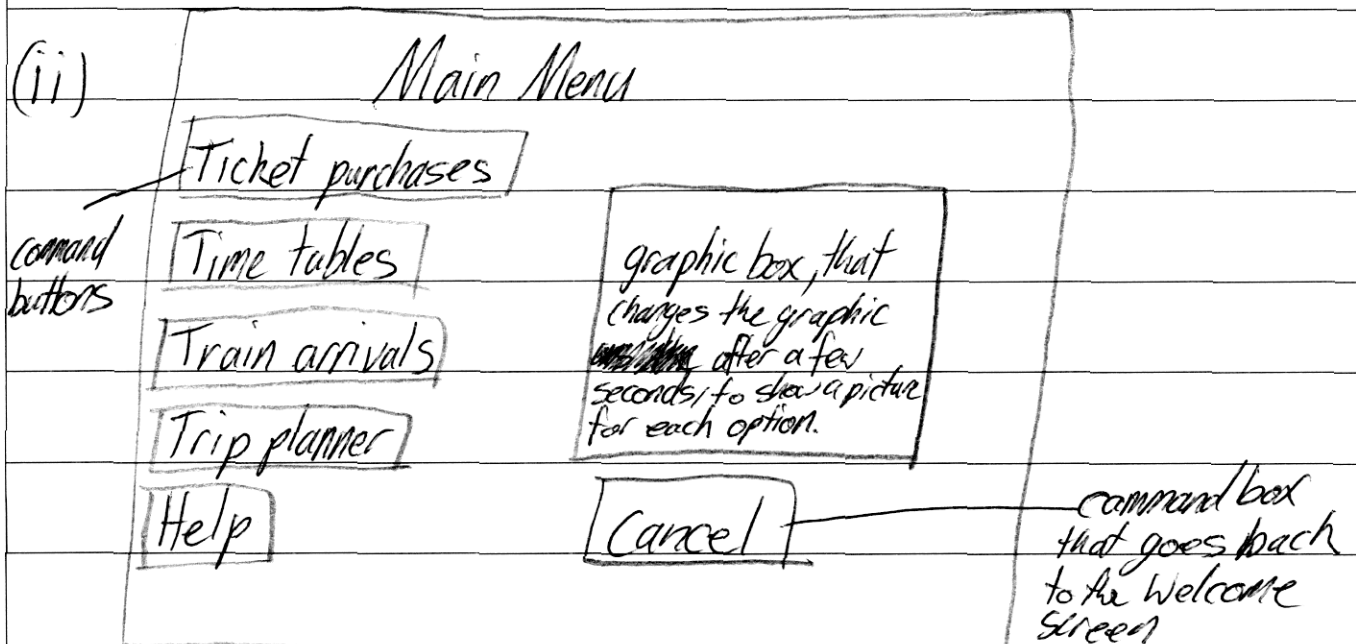


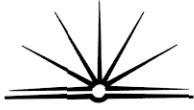
c)(i)



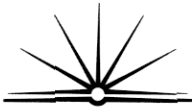
↑ - home button  
takes the users  
back to the contents  
page.

(ii)





d) Blind people or visually impaired people would have trouble using the system. This could be resolved by using design consistency and placing a raised OK and CANCEL button in the same place on every screen. Also the text on the screen could have an option to be read aloud. The staff could assist the person using the system and the next time they would know what to do.



e) BEGIN MAIN PROGRAM

Input User Dest

Num Single

Num Return

FOR index = 1 to 100

IF User Dest = destination(index). Station

BEGIN MAIN PROGRAM

Find Station Destination

Calculate Fare

END MAIN PROGRAM

BEGIN SUBPROGRAM FindDestination

Input User Dest

For index = 1 to 100

indent → IF User Dest = destination(index). station THEN

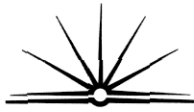
~~index~~ count = index

ENDIF

Increment index

END FOR

END SUBPROGRAM FindDestination



BEAN SUB PROGRAM calculatefare

Single tickets = NumSingle \* destination(count) . full single

Full tickets = Num<sup>return</sup>Full \* destination(count) . full return

Total fare = Single tickets + full tickets

Print Total fare

END SUBPROGRAM calculatefare