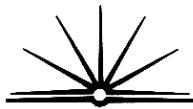




22. a) The software development approach that would be most suitable for this system ~~would be~~ is a prototype approach.

This is because:

- it gives an early idea if the project is technically ~~feasibly~~ feasible.
- deduces what the final version will look and act like, expanding on the requirements definition.
- can be tested in advance by the users to see if it is user-friendly and is easily ^{and navigated} accessible by the public.



22. b) 1. Processing of data (e.g. ^{ticket} purchases)

should be processed at acceptable speeds.

2. Displayment of trains correctly

running need to be updated dynamically with fast updates between changes.

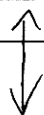
c) i)

~~Screen~~ Ticket information screen

Ticket information screen



Confirmation of selection



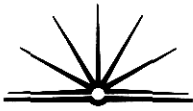
Payment method



Payment entry



Receipt displayed



22. c) ii)

THE NATIONAL RAILROAD NETWORK

Choose a Selection.:

PURCHASE A TICKET

DISPLAY TRAIN TIMETABLE

DISPLAY EARLY/LATE TRAINS

PLAN YOUR JOURNEY

d) For the system to be inclusive, there needs to be the installation of either a brail touch screen or voice-recognition and sound output to include the blind. This is the one group of travellers who might have a major problem.



22.e)

```
BEGIN Cost of Tickets
```

```
var UserDest
```

```
var NumSingle
```

```
var NumReturn
```

```
var TotalFare
```

```
FOR index = 1 to 100
```

```
IF destination(index).station == UserDest THEN
```

```
TotalFare = (destination(index).fullsingle * NumSingle) +
```

```
(destination(index).fullreturn * NumReturn)
```

```
ENDIF
```

```
NEXT
```

```
DISPLAY TotalFare
```

```
END
```