

ASSIGNMENT NO

Aim: To implement program for rolling display

Title: Develop the app for a rolling display program of news display on a smart TV or computer display the input strings are supplied by the mobile phone.

Objectives:

1. To study and implement concept of rolling display for smart TV or computer.

Software requirements:

- Linux Operating System
- Android studio/ADT bundle
- Eclipse IDE

Mathematical model:

Let s be a set such that

$S = \{s, e, i, o, f, dd, ndd, success, failure\}$ s =initial state

E = end state

I = input of the system.

O =output of the system.

F = functions

Dd -deterministic data it helps identifying the load store functions or assignment functions.

Ndd - non deterministic data of the system s to be solved.

Success-desired outcome generated .\\

Where, s =start state

A =generate token()

R =final result

Theory:

Smart TV: sometimes referred to as connected TV or hybrid TV, is a television set or set-top box with integrated inter- net and web 2.0 features, and is an example of technological convergence between computers and television sets and set-top boxes. Besides the traditional functions of television sets and set-top boxes provided through traditional broadcasting media, these devices can also provide internet TV, online interactive media, over-the-top content, as well as on-demand streaming media, and home networking access. smart TV devices facilitate the curation of traditional content by combining information from the internet with content from TV providers.

Rolling display: a rollable display is a flexible display that can be rolled up into a scroll. Technologies involved in building a rollable display include electronic ink, gyricon, and oled.

Electronic paper displays which can be rolled up have been developed by e ink. At the ces 2006, philips showed a rollable display prototype, with a screen capable of retaining an image for several months without electricity. As of 2007 philips polymer vision expected to launch a 5-inch, 320 x 240-pixel rollable display based on e ink as electrophoretic technology. Rollable displays have many advantages over glass:

- 1) Better durability
- 2) Lighter weight
- 3) Thinner dimensions

Moreover, the major difference between glass and rollable display is that the display area of a rollable display can be bigger than the device itself; if a flexible device measuring, for example, 5 inches in diagonal and a roll of 7.5mm, it can be stored in a device smaller than the screen itself and close to 15mm in thickness. With the flat panel display having already been widely used more than 40 years, there have been many desired changes in the display technology, focusing on developing a lighter, thinner product that was easier to carry and store. Through the development of rollable displays in recent years, scientists and engineers agree that flexible flat panel display technology has huge market potential in the future.

Advantages of rolling display: rollable displays can be used in many places:

1. Mobile devices.
2. Laptops and pdas.
3. A permanently conformed display that securely fits around the wrists.
4. a child's mask for halloween and other uses.
5. an odd-shaped display integrated in a steering wheel or automobile.

Conclusion: We have successfully studied that how to display the string on computer from mobile.