Real time processing of environmental gamma ray spectrometry data

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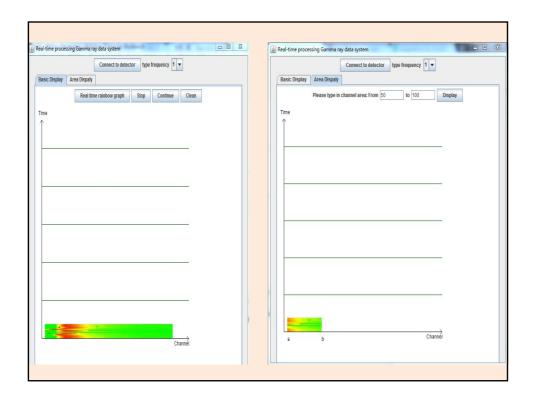
Aim of the project

 To design a java application which can real time process the data sent by radioactivity detector and display a dynamic rainbow spectrum graph.



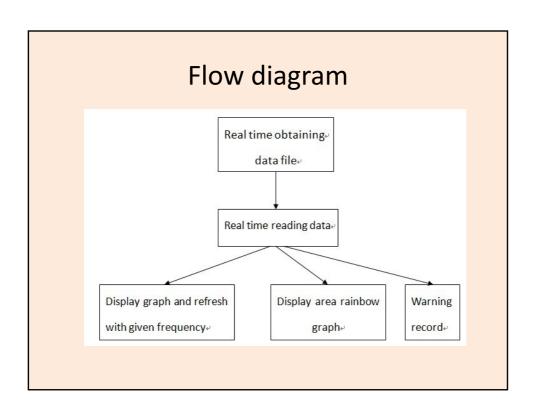
Function of the application

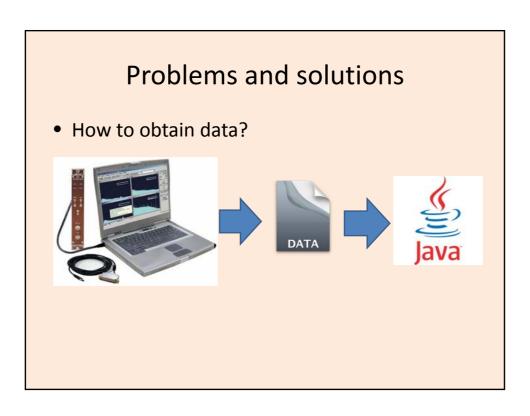
- 1. Display dynamic rainbow graph.
- 2. Provide dynamic frequency.
- 3. Provide area display.



Some functions in future

- 1. Provide some dynamic environmental indexes.
- 2.Provide a warning record.
- 3. A GPS location function.





Problems and solutions

- How to display a dynamic graph?
- Using the data read from the data file to draw a rainbow graph. Then use a loop and thread to make the graph be drawn and refresh all the time. In the loop I add some decision condition to draw different graph to make the graph changing all the time.

•Thank you!