



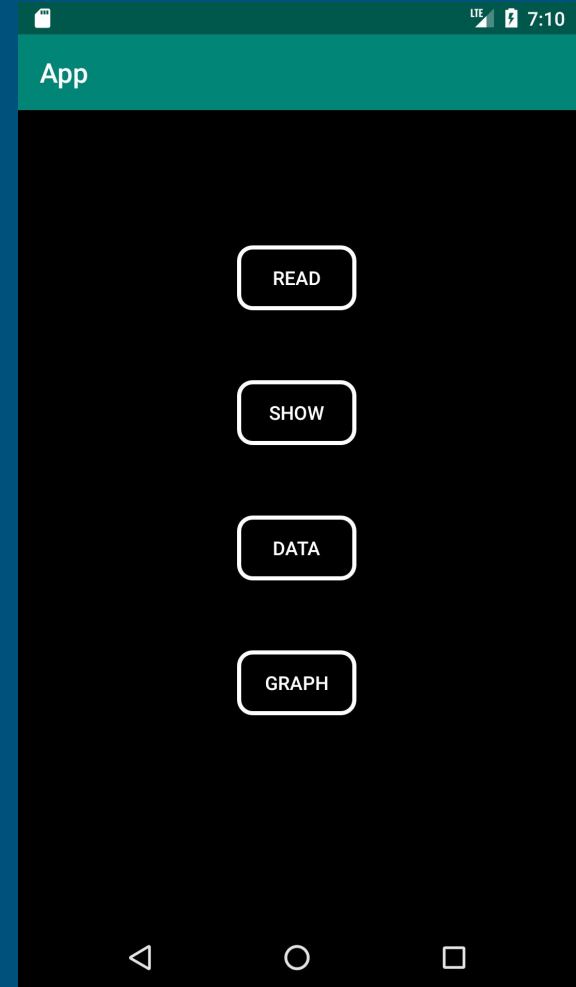
Project Report



Introduction

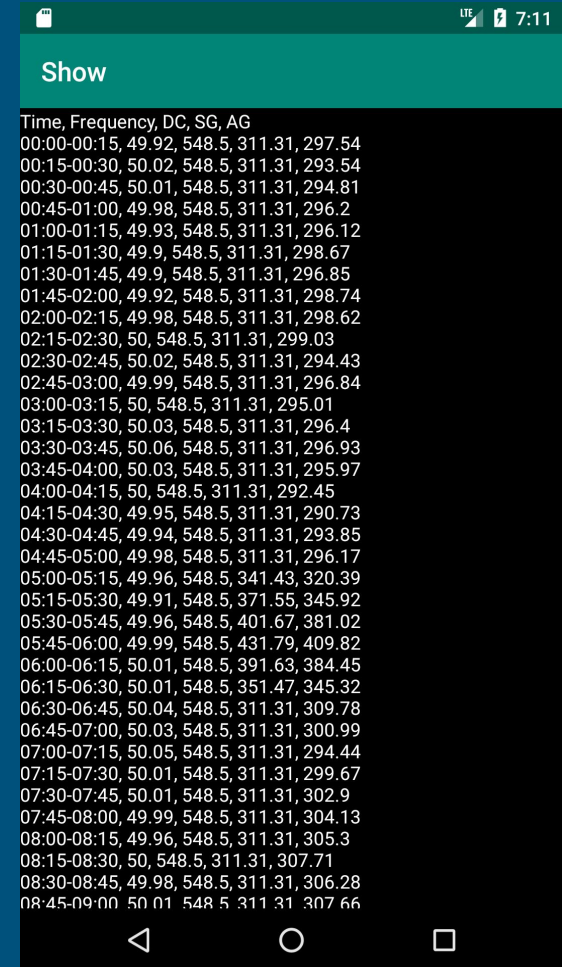
At the present stage, our app is able to do the following:

- Read data from a CSV file, perform any kind of calculation on it and display the result.
- On the basis of the above data, plot various kinds of graphs in the app itself.



Show

Upon clicking the read option , we would be informed if the data was read successfully or not. The show option displays the data as follows:



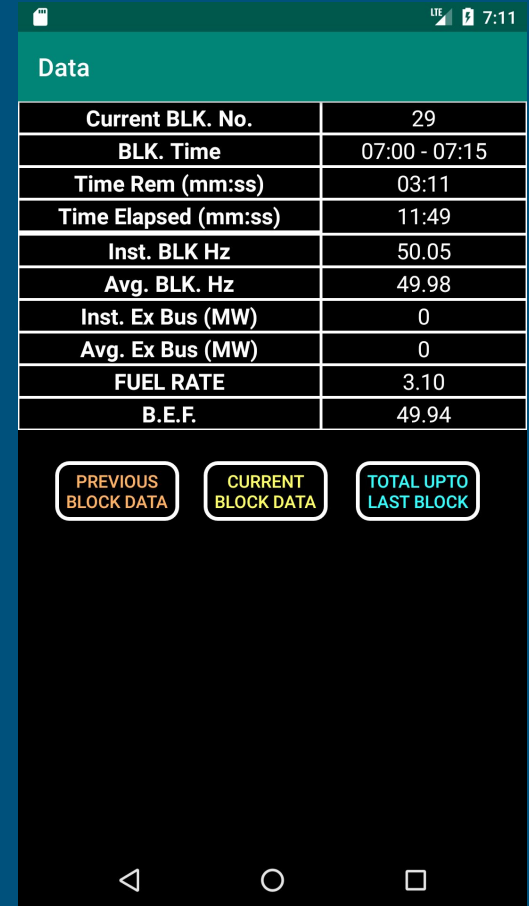
The screenshot shows an Android application interface. At the top, there is a green header bar with the word "Show" in white. Below the header, the data is displayed in a list format on a dark background. The data consists of time, frequency, DC, SG, and AG values. The status bar at the top right shows "LTE", signal strength, and the time "7:11". The bottom of the screen features the standard Android navigation bar with back, home, and recent apps icons.

Time	Frequency	DC	SG	AG
00:00-00:15	49.92	548.5	311.31	297.54
00:15-00:30	50.02	548.5	311.31	293.54
00:30-00:45	50.01	548.5	311.31	294.81
00:45-01:00	49.98	548.5	311.31	296.2
01:00-01:15	49.93	548.5	311.31	296.12
01:15-01:30	49.9	548.5	311.31	298.67
01:30-01:45	49.9	548.5	311.31	296.85
01:45-02:00	49.92	548.5	311.31	298.74
02:00-02:15	49.98	548.5	311.31	298.62
02:15-02:30	50	548.5	311.31	299.03
02:30-02:45	50.02	548.5	311.31	294.43
02:45-03:00	49.99	548.5	311.31	296.84
03:00-03:15	50	548.5	311.31	295.01
03:15-03:30	50.03	548.5	311.31	296.4
03:30-03:45	50.06	548.5	311.31	296.93
03:45-04:00	50.03	548.5	311.31	295.97
04:00-04:15	50	548.5	311.31	292.45
04:15-04:30	49.95	548.5	311.31	290.73
04:30-04:45	49.94	548.5	311.31	293.85
04:45-05:00	49.98	548.5	311.31	296.17
05:00-05:15	49.96	548.5	341.43	320.39
05:15-05:30	49.91	548.5	371.55	345.92
05:30-05:45	49.96	548.5	401.67	381.02
05:45-06:00	49.99	548.5	431.79	409.82
06:00-06:15	50.01	548.5	391.63	384.45
06:15-06:30	50.01	548.5	351.47	345.32
06:30-06:45	50.04	548.5	311.31	309.78
06:45-07:00	50.03	548.5	311.31	300.99
07:00-07:15	50.05	548.5	311.31	294.44
07:15-07:30	50.01	548.5	311.31	299.67
07:30-07:45	50.01	548.5	311.31	302.9
07:45-08:00	49.99	548.5	311.31	304.13
08:00-08:15	49.96	548.5	311.31	305.3
08:15-08:30	50	548.5	311.31	307.71
08:30-08:45	49.98	548.5	311.31	306.28
08:45-09:00	50.01	548.5	311.31	307.66

Data

This option shows us the following screen (image on the right). The shown parameters are calculated in real time, i.e. the time was 7:11 when this screenshot was taken.

The three buttons below show us additional data as follows (images on next slide)



Data	
Current BLK. No.	29
BLK. Time	07:00 - 07:15
Time Rem (mm:ss)	03:11
Time Elapsed (mm:ss)	11:49
Inst. BLK Hz	50.05
Avg. BLK. Hz	49.98
Inst. Ex Bus (MW)	0
Avg. Ex Bus (MW)	0
FUEL RATE	3.10
B.E.F.	49.94

PREVIOUS BLOCK DATA CURRENT BLOCK DATA TOTAL UPTO LAST BLOCK

Data	
Avg. BLK. Hz	49.98
Inst. Ex Bus (MW)	0
Avg. Ex Bus (MW)	0
FUEL RATE	3.10
B.E.F.	49.94
<div>PREVIOUS BLOCK DATA</div> <div>CURRENT BLOCK DATA</div> <div>TOTAL UPTO LAST BLOCK</div>	
Previous Block Data	
Block No	28
Block Time	06:45 - 00:00
DC (MW)	548.5
SG (MW)	311.31
Avg Ex-Bus (MW)	0
Avg Ex-Bus/SG %	0
Avg Hz	49.98
Dev. MW	16.87
Dev. Rate	0
Dev. (Rs)	0
Addi. Dev.(Rs)	0
Total Dev.(Rs)	0
Fuel Cost.(Rs)	0
Net Gain(Rs)	0

Data	
Avg. BLK. Hz	49.98
Inst. Ex Bus (MW)	0
Avg. Ex Bus (MW)	0
FUEL RATE	3.10
B.E.F.	49.94
<div>PREVIOUS BLOCK DATA</div> <div>CURRENT BLOCK DATA</div> <div>TOTAL UPTO LAST BLOCK</div>	
Current Block Data	
Block No	29
Block Time	07:00 - 015:15
DC (MW)	548.5
SG (MW)	311.31
Avg Ex-Bus (MW)	0
Avg Ex-Bus/SG %	0
Avg Hz	49.98
Dev. MW	11.64
Dev. Rate	0
Dev. (Rs)	0
Addi. Dev.(Rs)	0
Total Dev.(Rs)	0
Fuel Cost.(Rs)	0
Net Gain(Rs)	0

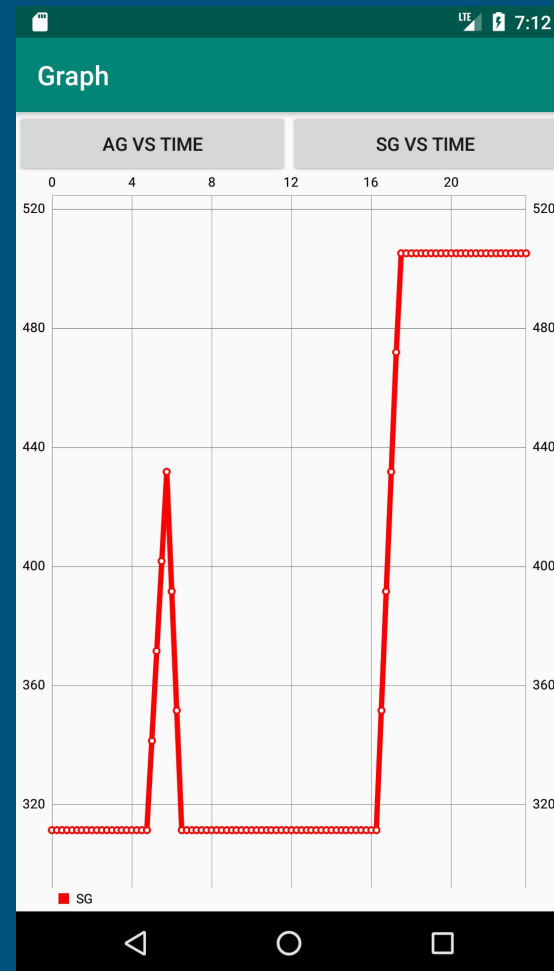
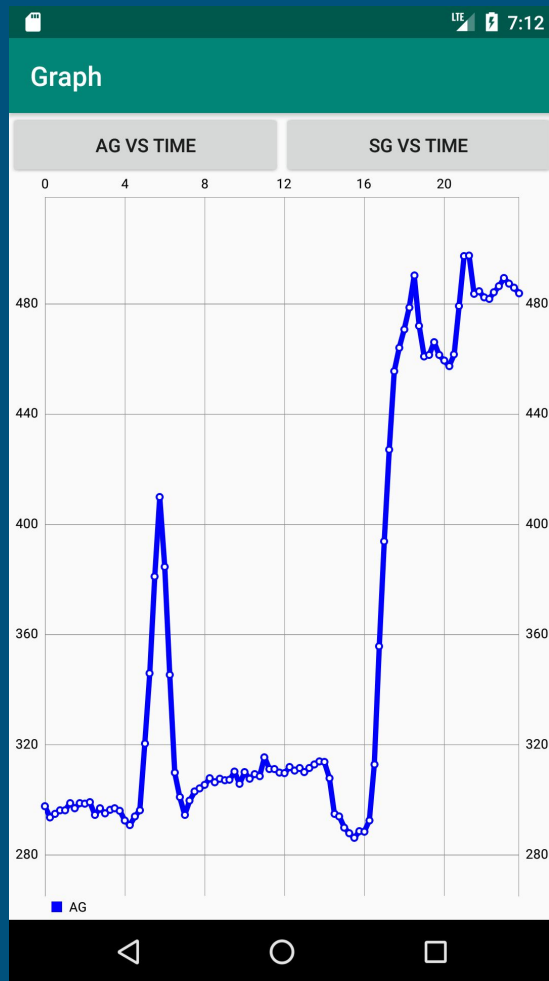
Data	
Current BLK. No.	29
BLK. Time	07:00 - 07:15
Time Rem (mm:ss)	02:58
Time Elapsed (mm:ss)	12:02
Inst. BLK Hz	50.05
Avg. BLK. Hz	49.98
Inst. Ex Bus (MW)	0
Avg. Ex Bus (MW)	0
FUEL RATE	3.10
B.E.F.	49.94
<div>PREVIOUS BLOCK DATA</div> <div>CURRENT BLOCK DATA</div> <div>TOTAL UPTO LAST BLOCK</div>	
Total up to last BLK.	
Export (MWh)	0
Import (MWh)	0
Net Export (MWh)	0
Net Exp/SG(MWh)	0
Under Inj (MWh)	0
Over Inj (MWh)	0
Dev. (MWh)	0

Graph

Finally, the graph option shows us graph between various parameters. We can choose SG vs time or AG vs time, as an example.

The respective graphs follow in the next slide.





Thank You

- Let us know what other features we should add to improve the app. We look forward to your feedback.