

Mini Project On

Battery Indicator

Name: Aman Kalaskar

Branch: Computer Engineering

SFID:105495

Table of contents

Sr No.	Title
1	Problem Statement
2	Requirements
3	Design
4	Test Cases
5	Future Scope
6	Conclusion

Problem Statement

Battery Indicator is an application that provides the battery percentage and charging status. This application also alerts if the battery percentage exceeds its preset boundaries. I have used C programming language to retrieve the system info and to generate a text file, php is used to display the battery status over a local server(Xampp).

Requirements:

1. Windows OS
2. GCC compiler
3. XAMPP server
4. Browser

Design:

The c code will generate a txt file in which the battery status will be updated every 5 seconds. This file is then taken as input in the php file and displays it over the xampp server. If the battery percentage goes below 30%and the charger isn't connected, it'll alert the system. If the battery percentage is above 90% and the charger is connected, it'll alert the system.

Test Cases:

Test Case ID	Test Case Description	Expected Result
T001	Verify the battery percentage	Battery percentage is correct
T002	Verify the charging status	Charging status is coherent
T003	Check if the .txt file is being generated	Text file gets generated
T004	Check if the .txt file is getting updated	Battery info is updated every 5 seconds
T005	Check if the system is getting appropriate alerts	System alerts when 90%<battery<30%

Future Scope:

More functions like sound management or application run status

Interactive features to control your laptop remotely

File transfer

Conclusion:

Thus concepts like file reading in c were learnt.

The program is running correctly, the battery status is appropriate and the alerts are working properly.