TESTING

PROJECT TITLE:

IoT Based Safety Gadget for Child Safety Monitoring and Notification

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INTRODUCTION:

Testing is based on the behaiviour of our application It is referred five parts of testing those are load testing, stress testing, spike testing, endurance testing, resilence testing.

LOAD TESTING:

Load test is depend up on the application speed our device is worked at more effective at all the time to performed in online space the load level testing result is minimum amount of load is uploaded and our application runs effectively it is depend up on our data speed and quality of the data .

STRESS TESTING:

Stress testing is referd to how much stress it will handeld in all stagies we upload the particular amount of stress its performed good it is advancement of of the crime rate security is having its alarming significance for school children, some applications exist to address issue and most of them internet connection which makes a solution expensive in this application we present a low cost solution and the stress test result is good .

SPIKE TESTING:

Spike testing is during the time how the system will behave or performe it , the monitoring system is performed in all time to our data connection and quality .if you want to connect your mobile to device set the particular time otherwise it will be off mode set the time to the app to connect — a device example child's school timing to return to home timing our application is performed good .

ENDURANCE TESTING:

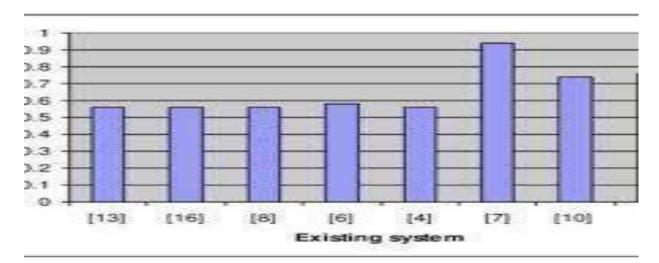
Endurance test will be approved to during the continuous stress how the application will serviced GPS provides the accurate data for tracking the children currently located and along with it also update the parents and ,GSM updates the sms to our parents mobile application this application is used to support child health care laevel and the notification is send to our parents or guide 's mobile , panic button is performed minimum level of stress to using good.

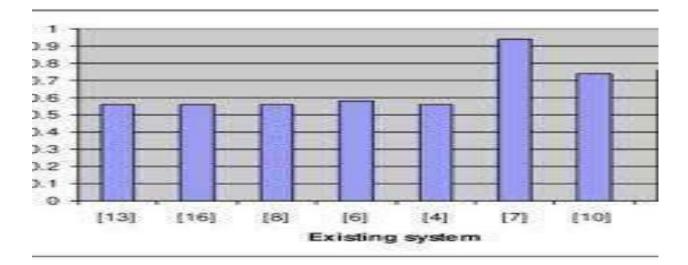
RESILENCE TESTING:

It is divided to two phase active and passive node, active node whenever node is comming that node will pick the load if active node is down the passive is pick the load automatically the testing result is good

SAMPLE GRAPH:

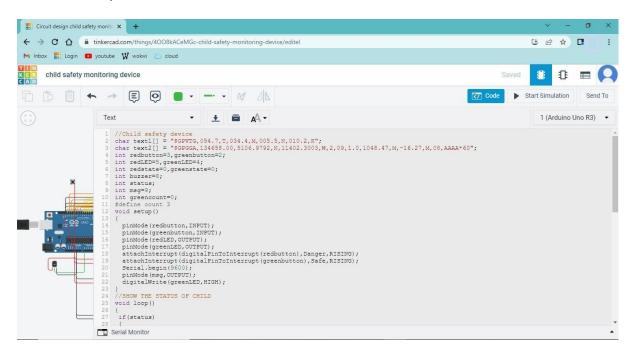
Steady state

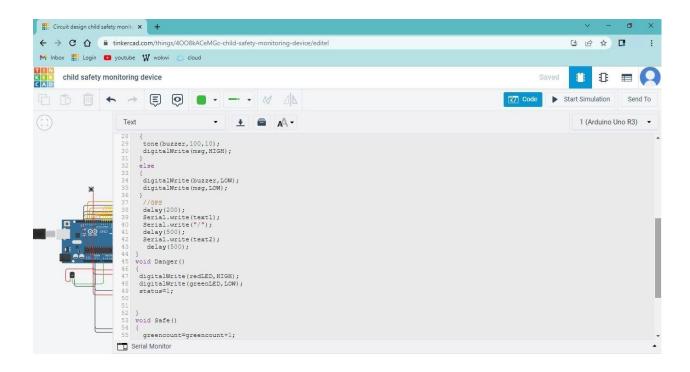


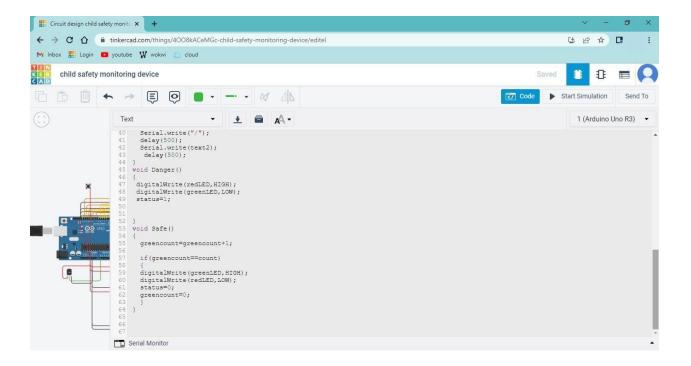


Arudino-1

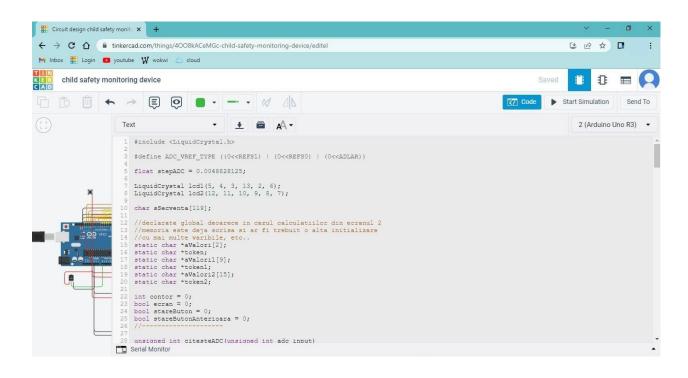
Child safety device

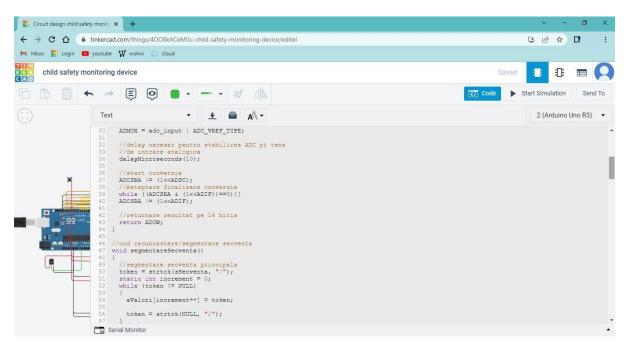


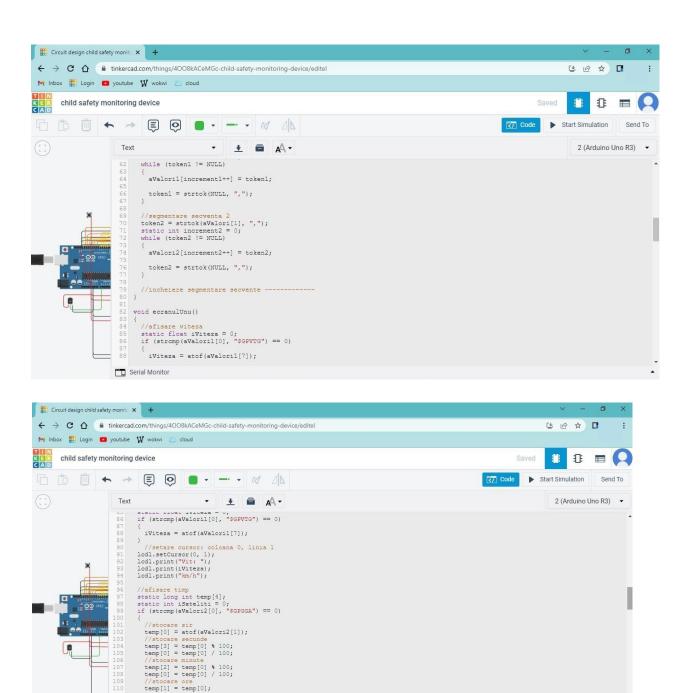




Arudino-2

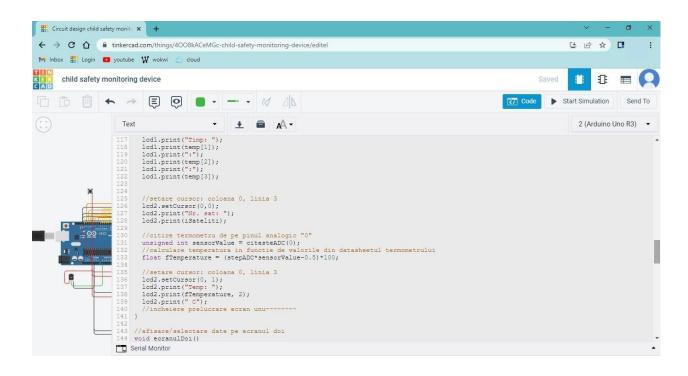


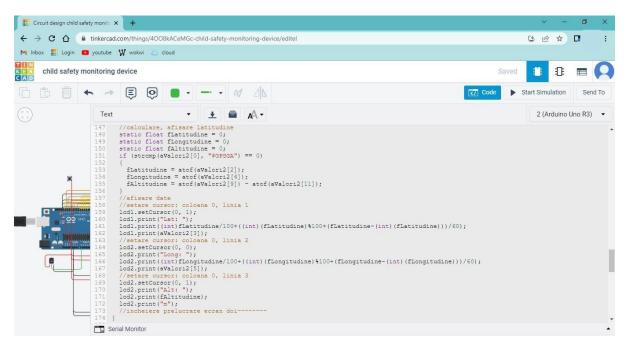


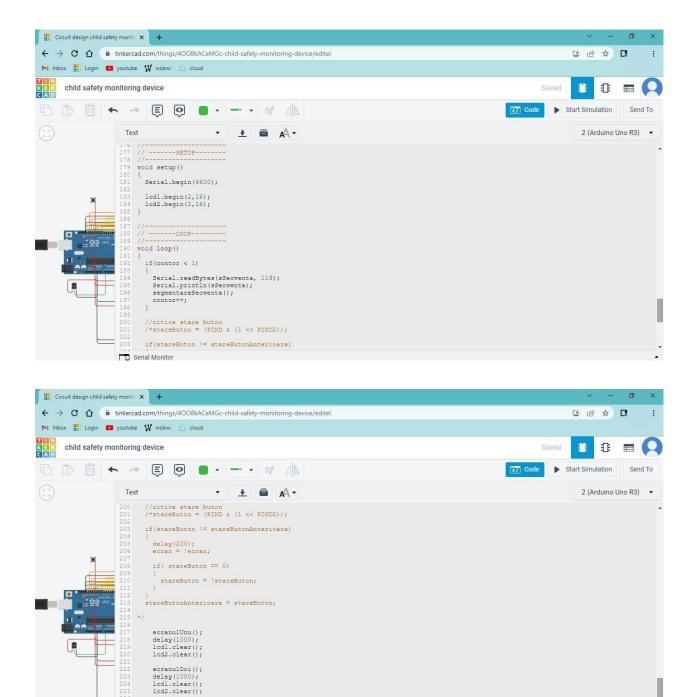


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Serial Monitor



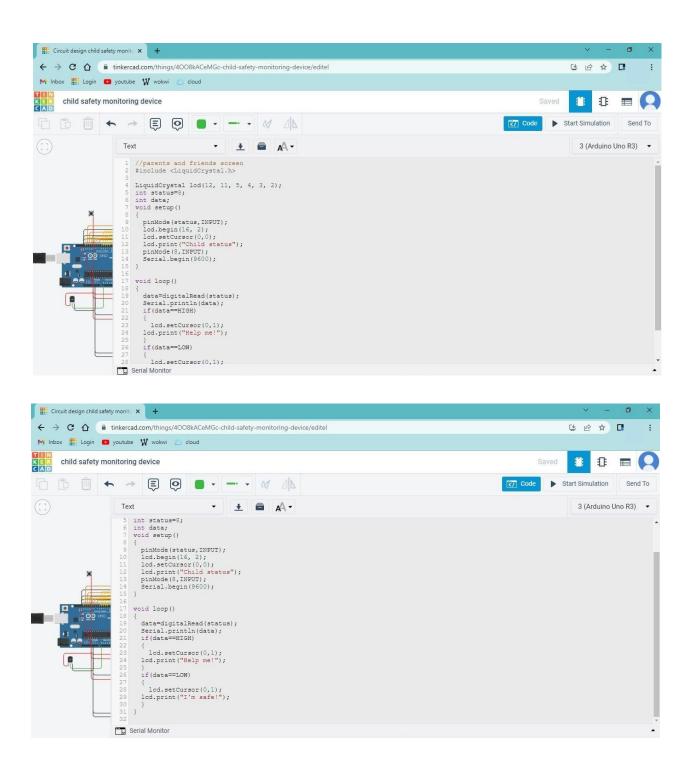




Arudino-3

Parents and friends Screen

Serial Monitor



User Acceptance testing:

