SAVING LIVES FROM ONE OF THE MOST EMERGING
MANMADE DISASTER

*PROBLEM: Today we can see numerous news of buildings falling, constructional
errors(like public centric important places just fall on public)

ofcourse they were made for public uses but i am pretty sure these
all accidents arent a part of uses and no one ever will like to use
that resourses in that way.

I mean airports are made for flight landing not for airport landing
or switching people to permanent aeroplane mode this was *just a* example
taken from a lot of constructional failures.

CAUSES OF SUCH FAILURES:-

1) CORRUPTION

2) (Public awarness)People are more interested in watching JCB doing their work
than the quality of work

3) Lack of tech to check quality of constructional works, like even in this
genration constructional works are checked manually by some assigned person
which creates a opportunity of corruption
* By checking quality of construction i mean to say is we can check for
strength of walls, roads and more public properties (and here my solution
comes)

THE SOLUTION: we can build a device using ultrasonic sonar sensors and tech which
checks cavities cracks and strength of construction i.e. walls and
roads etc
This device can be used for personal use of constructional checks too
before buying any property

IDEA OF MODEL: We will use majorly 2 main component ULTRASONIC SONAR sensor and
ARDUINO UNO, ultrasonic sensors are majorly used for measuring
distance but we can use it for observing structure patterns of
a construction.Basically we will send and recieve waves through
Ultrasonic sensor and will project the data on intesity time graph
and will observe the variation in recieved ECHO for eg (i have
attached 3 images of showing stages of capturing a cavity or big
cracks and this was just a example of capturing cavity we can find
a lot of things by projecting and observing different graphs)

we can even find what strengthful material is used we can check that
used material is what it was promised to be used.

WORD EXPLANATION of that images is if we send waves and recieve waves then if
everything is normal we will get projection of a sended wave and a recieved echo
but if there is a cavity or deformation we will recieve a different projections
for example we will recieve 2 echo projections at starting of a cavity and later
we can measure the strength of cavity by observing intensity and at the end of
cavity we will recieve a single small faster intesity projection (echo projection
comes faster when there is cavity) and after that we will recieve normal projections
of echo as i mentioned above this will just a single use from various uses of that
device we can develop a code and website through which even a normal common person
with zero idea can also check that website will show results using projections of
that graphs