

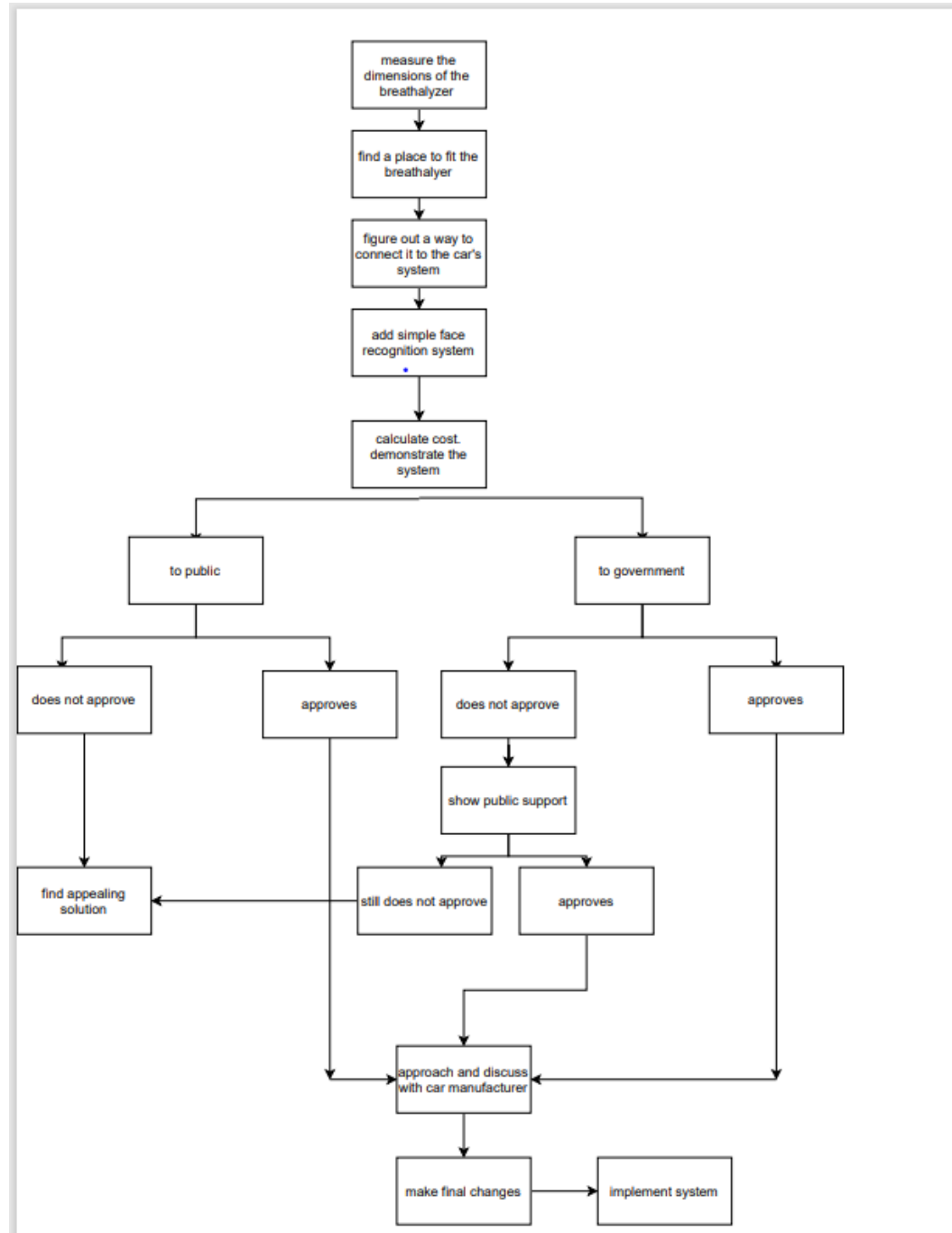
Problem statement : India ranks number 1 in the number of road accidents across 199 countries reported in the World Growth Statistics and accounts for almost 11% of the road related deaths in the world. As a new budding engineer how would you help improve road safety in India?

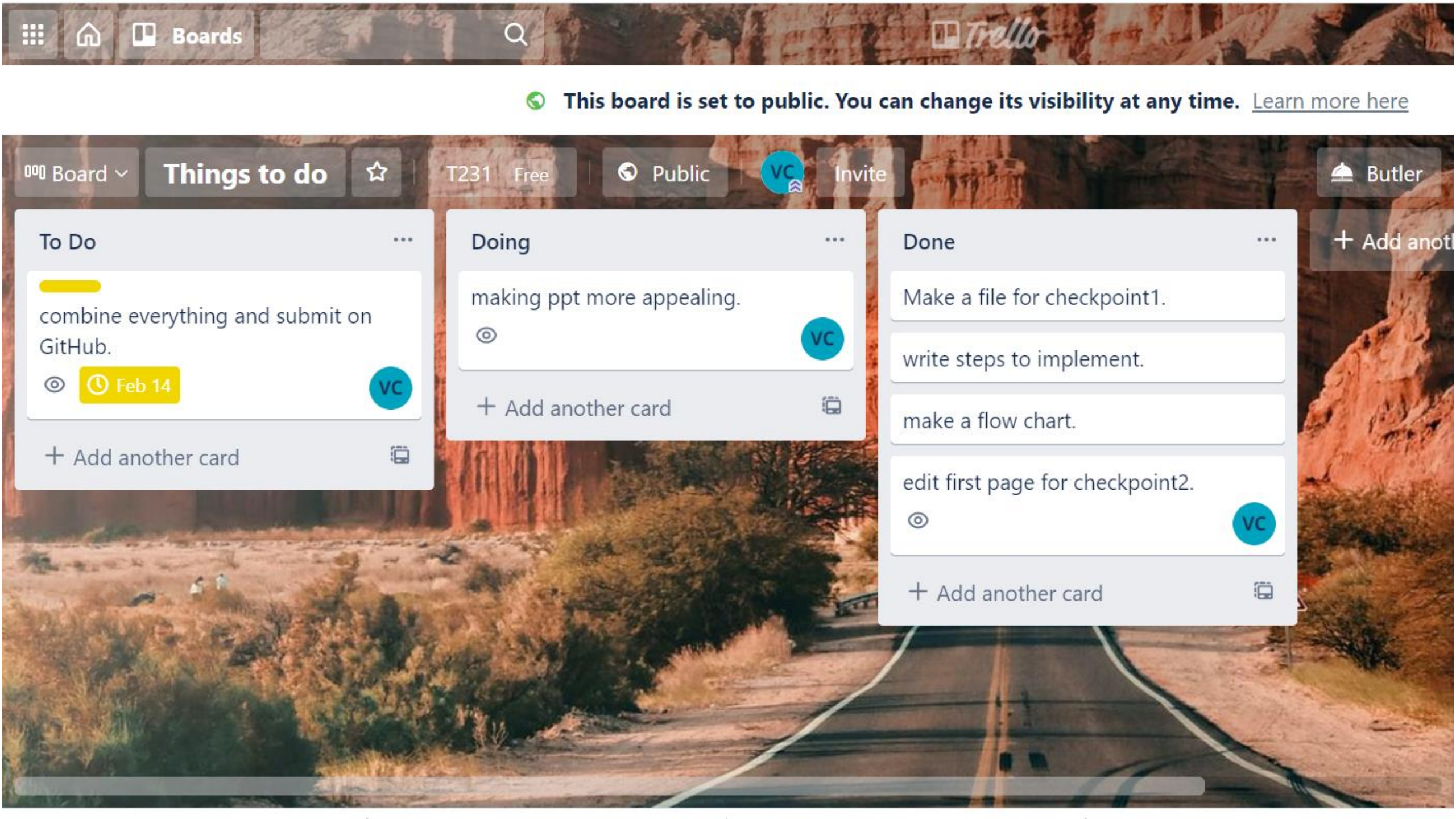
Abstract for solution : Since drunk driving is a major problem, tackling it would highly reduce road accident. Why have a traffic policemen do the breathalyzer test when the car can do it by itself? Attaching the breathalyzer outside the drivers door and having to take the breathalyzer test every time you drive. If the bac(blood alcohol content) is above the required limit the door will not open. What if you just enter from the other door? A transparent wall that blocks you from switching seats does the job. The transparent wall will be made such that no one is hurt by it during an accident. Cheating the system can further be decreased by facial recognition. The machine captures the picture of the person taking the test and recognises the face once the driver sits inside too. If they don't match the car will not start.

Approach the general public, government and car manufacturers with the idea.

Steps to go about implementing :

- Step 1: A model shall be made.
- Step 2: To make the device we need a breathalyzer.
- Step 3: The breathalyzer will need to be internally connected to the system.
- Step 4: The right material for the transparent wall needs to be figured out.
- Step 5: Face recognition system needs to be installed.
- Step 6: The whole system will then have to be tested.
- Step 7: The cost should then be calculated according to the model.
- Step 8: To implement something like this we will need to get public's, government and car manufacturer support.
- Step 9: The model shall then be modified as instructed.





This board is set to public. You can change its visibility at any time. [Learn more here](#)

To Do

combine everything and submit on GitHub.

Feb 14

VC

+ Add another card

Doing

making ppt more appealing.

VC

+ Add another card

Done

Make a file for checkpoint1.

write steps to implement.

make a flow chart.

edit first page for checkpoint2.

VC

+ Add another card