



OVERSEE – An AI based Driver State Monitoring System

UI DESIGN DOCUMENT

GOLF – SECTION A

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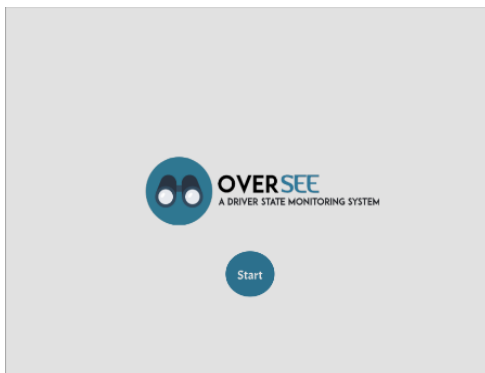
UI DESIGN REPORT

Introduction:

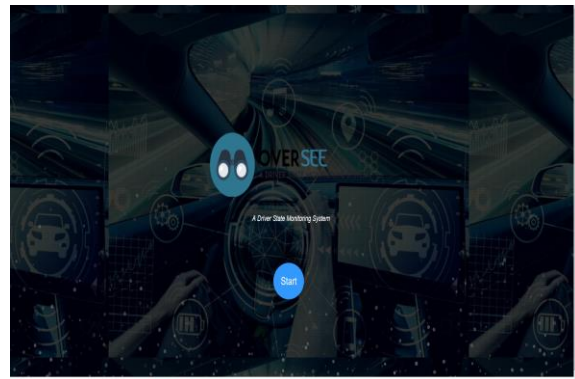
The UI of our system is built on web-based platform. In this case, we have used HTML, CSS, OPENCV in front end, Flash in the back-end to connect the web with database.

Current UI:

- a. The web app has a landing page which will be open just after the device starts. It has a start button which user should click to see the features of the device.

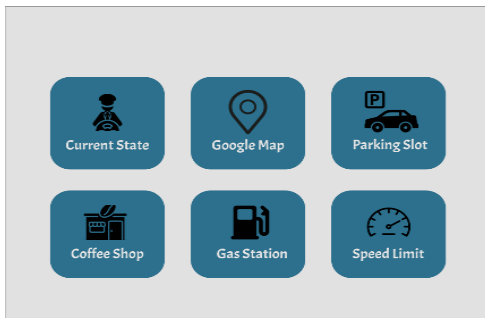


previous starting page

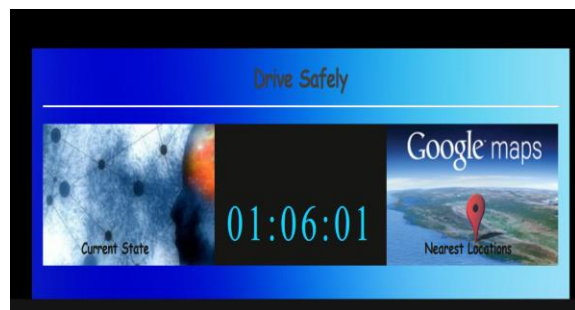


current starting page

- b. The home page has 2 buttons. 1st one is for checking user's current state. If a user wants to see his current state – drowsiness percentage, anger/stress percentage, inattention 2nd button is for the map. If anyone wants to see the map, they can see by clicking this button.



previous home page



current home page

Deviation:

previous UI had 6 buttons. One for current state, one for speed, 3 for nearest parking, coffee shop, gas station, and one for google map.

Current UI has 2 buttons. One for current state and one for google map.

Reason:

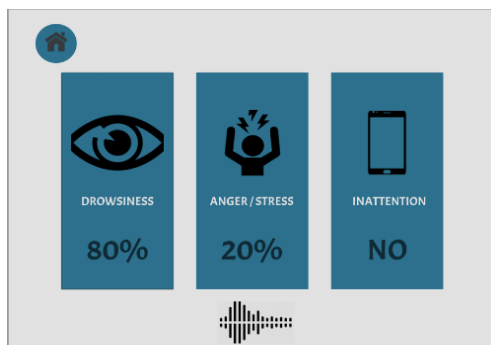
3 nearest features can be handled by the google map feature automatically. If we want to distribute it in 3 separate buttons, options of nearest feature will become limited in only 3 options.

Speed feature is discarded for this project so this button is not in the web-site anymore.

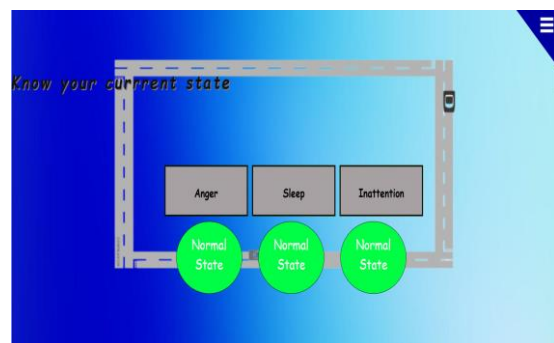
- c. Current state page has two sections. Right side has the real-time video stream of the driver's face. And the Left side has the state percentages of the driver by processing the video stream.

Deviation: an extra section with the live stream of the driver is added.

Reason: to check If the camera is taking the right video or not.

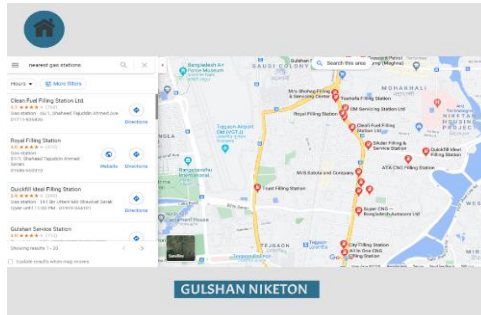


previous current state page

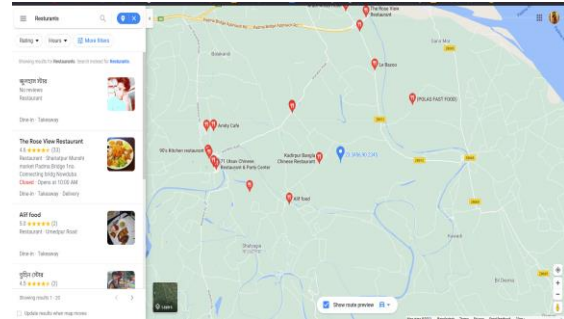


current 'state' page

- d. Map is connected with google map. Current position and the path are showed by map.



previous map page



current map page

- e. Map has an option called 'nearest'. By clicking this option user can check nearest restaurant, coffee shop, parking slot. This is a feature of google map which we are using for our convenience.