

OVERSEE – An AI based Driver State Monitoring System UI DESIGN DOCUMENT GOLF – SECTION A

GROUP MEMBERS:

TASNIA IQBAL: 201814030

TASNEEM MUBASHSHIRA: 201814054

IFATH ARA: 201814060

FARIHA AMIN: 201814061

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

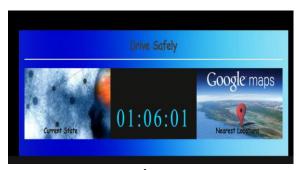


current starting page

b. The home page has 2 buttons. 1^{st} one is for checking user's current state. If a user wants to see his current state – drowsiness percentage, anger/stress percentage, inattention 2^{nd} 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:

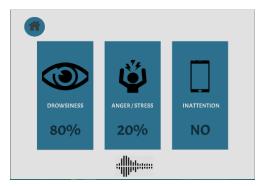
3 nearest features can be handled by the google map feature automatically. If we want to distribute it in 3 separate buttons, options of nearest feature will become limited in only 3 options.

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

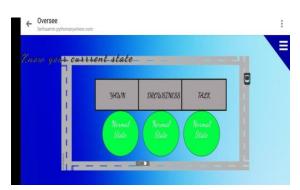
c. Current state page has two sections. Right side has the real-time video stream of the driver's face. And the Left side has the state percentages of the driver by processing the video stream.

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.