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Final Project Documentation

Features:

* Tracks the user speed and displays the current speed in the UI
* Shows the User Location on a Map
* Tracks the current road the driver is on and displays that current road on the UI
* Tracks the current posted speed limit of the current road and show it in the UI
* Tracks when the driver has committed and speed violation
  + This data has persistence and is store on device
  + This data is displayed in a list for the user
  + The user can see a more detail view of the speed violation.
* The phone would verbally let you know when you’re over the speed limit
* The app would repeatedly let you know that you’re over the speed limited until the speed is drop

Screen Design:

There are three screens in total for this app. The first screen shows current information to the user. The second view is a list of speed violations. The third view is a detail view of the selected speed violation. There is a tab view on the bottom. One is the first screen and two is the second screen

Screen 1:

A map of a road

Description automatically generated with low confidence

This screen shows data to the User. Here the user can see their location on a map. The user can see how fast they are going on the top label. The road they are on in the middle label and the speed limit on the bottom. The app would handle in the event where it cannot not get the speed limit, location, or current road.

A screenshot of a phone

Description automatically generated

This is where the user can see all of the speed violations committed. The user can see the date of the speed violation and road they committed the speed violation. Clicking an element would take the user to a more detail view of the selected element.

A picture containing text, map, screenshot, atlas

Description automatically generated

This view shows the details of the selected speed violation from the list. Here the user can see the date of the speed violation. The address of the speed violation. How many miles per hour where going over the speed limit. The longitude and latitude of the speed violation.