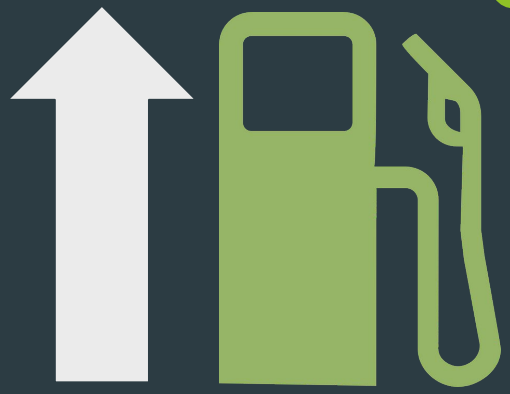
The *Green Gas Mileage Calculator*

A presentation by the members of 45mph

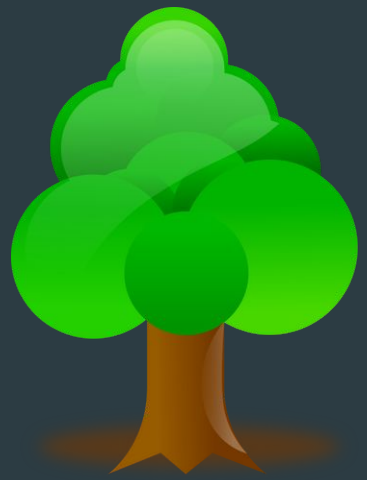
45mph is…

Name	Role	Initials
CW Ellis	Project Manager	CW
Rahul Chari	Scrum Master	RC
Kieran Ford	Development Team Member	KF
David Mendez	Development Team Member	DM

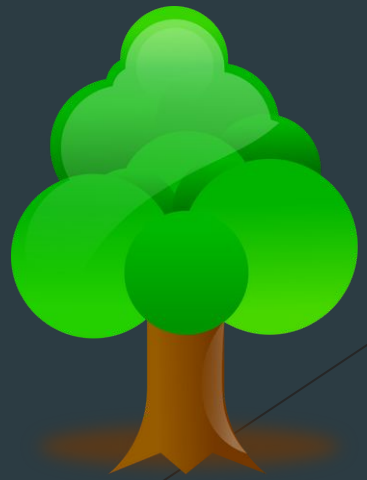
The *Green Gas Mileage Calculator*: Our Product Vision



Impacts



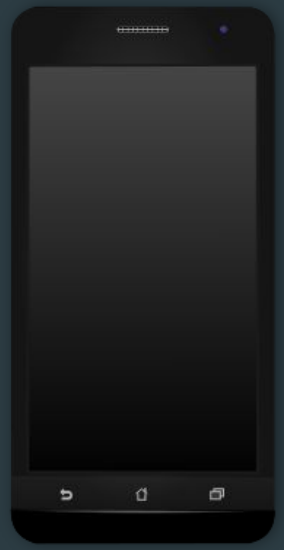
Saves



The *Green Gas Mileage Calculator*: Our Product Vision

For

We propose



The *Green Gas Mileage Calculator*: User Stories

1. As an environmentally-conscious driver, I want to track my impact on the environment so that I know the effects of my fuel usage.

2. As an environmentally-conscious driver, I want to know ways in which I could improve my driving to reduce my fuel usage so that I may reduce my emissions.

3. As someone who drives multiple cars regularly, I need to have a means of tracking multiple cars' information so that my cars' records are actually separable.

The *Green Gas Mileage Calculator*: Our Features

- Environmental Impact
- Driving Suggestions
- Vehicle Profiles
- Standard Features of Gas Mileage Apps such as…
  - A basic fuel mileage calculator with units mpg and km/l
  - Fuel usage and cost calculatorsRunning fuel economy averages for each vehicle
  - Tracks distance travelled during separate trips
  - Detailed, long-term reports of gas mileage

Acceptance Criteria Explained

1. As an environmentally-conscious driver, I want to track my impact on the environment so that I know the effects of my fuel usage.
   - 1.1. Emissions will be calculated using well-studied, accurate methods
   - 1.2. Once fuel consumption has been calculated for a trip, this amount of fuel should be automatically incorporated into the environmental impact calculation
   - 1.3. At the end of a trip, user should be asked if they want to see the impact of said trip
   - 1.4. A log of impact data should be available as an option on the app's home menu
   - 1.5. The list of impact data should be itemized by trip

2. As an environmentally-conscious driver, I want to know ways in which I could improve my driving to reduce my fuel usage so that I may reduce my emissions.
   - 2.1. Once Environmental Impact Tracking data is calculated for a trip, the system should automatically look for ways in which the user could have reduced their gas consumption during said trip
   - 2.2. Suggestions should include smoother acceleration
   - 2.3. Suggestions should include driving less distance
   - 2.4. Suggestions should include driving at the speed limit
   - 2.5. Suggestions should be displayed to the user in a separate text box or screen that they can leave to view the recorded metrics for their trip
   - 2.6. A map API will be used to calculate the various suggestions and display them

The Product Backlog

Priority	Item #	Description	Est	By	Spr
Very High					
	-	***UX Design***	-	-	-
	1	Decide on UX library	5	CW	1
	2	Integrate UX library	2	RC	1
	3	Design Main and Feature Menus	2	CW	1
	4	Implement Main and Feature Menus	13	CW, KF	1
	5	Integrate all features into their respective Menus	5	CW	1
	-	***Environmental Impact Tracking***	-	-	-
	6	Research environmental impact of automobiles with a focus on measuring emissions	3	CW	2
	7	Find source for emissions of specific vehicles	1	RC	2
	8	Implement Environment Impact calculation	2	CW	2

Dividing PBIs according to sprint

Sprint 1

Feature/Story	Pts.	Assigned
UX Design	27	RC, CW, KF
Digital Odometer	11	CW, KF
Maps API	26	RC, CW
Fuel Cost Calculator	9	KF
Fuel Consumption Log	4	CW
Hypothetical Buyable Fuel Calculator	7	DM
Hypothetical Fuel Cost Calculator	7	KF
Total:	**104**	

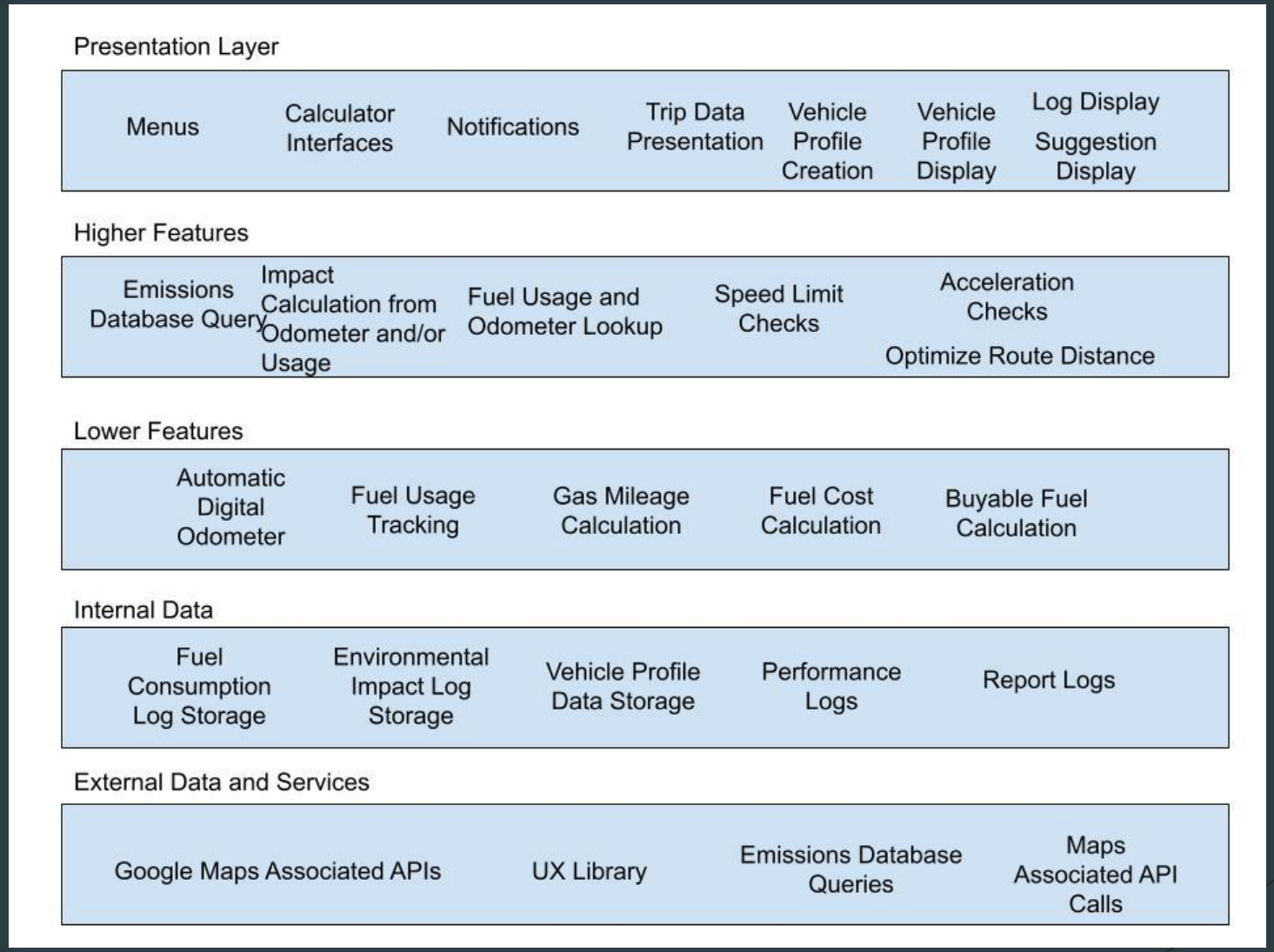
Sprint 2

Feature/Story	Pts.	Assigned
Environmental Impact Tracking	12	RC, CW
Driving Suggestions	25	RC, KF, DM
Gas Mileage Calculator	3	DM
Implement Vehicle Profiles	10	CW, KF, DM
Maintain Data Logs	23	RC, CW, KF, DM
Personalized Reports	12	RC, CW, DM
Total:	**88**	

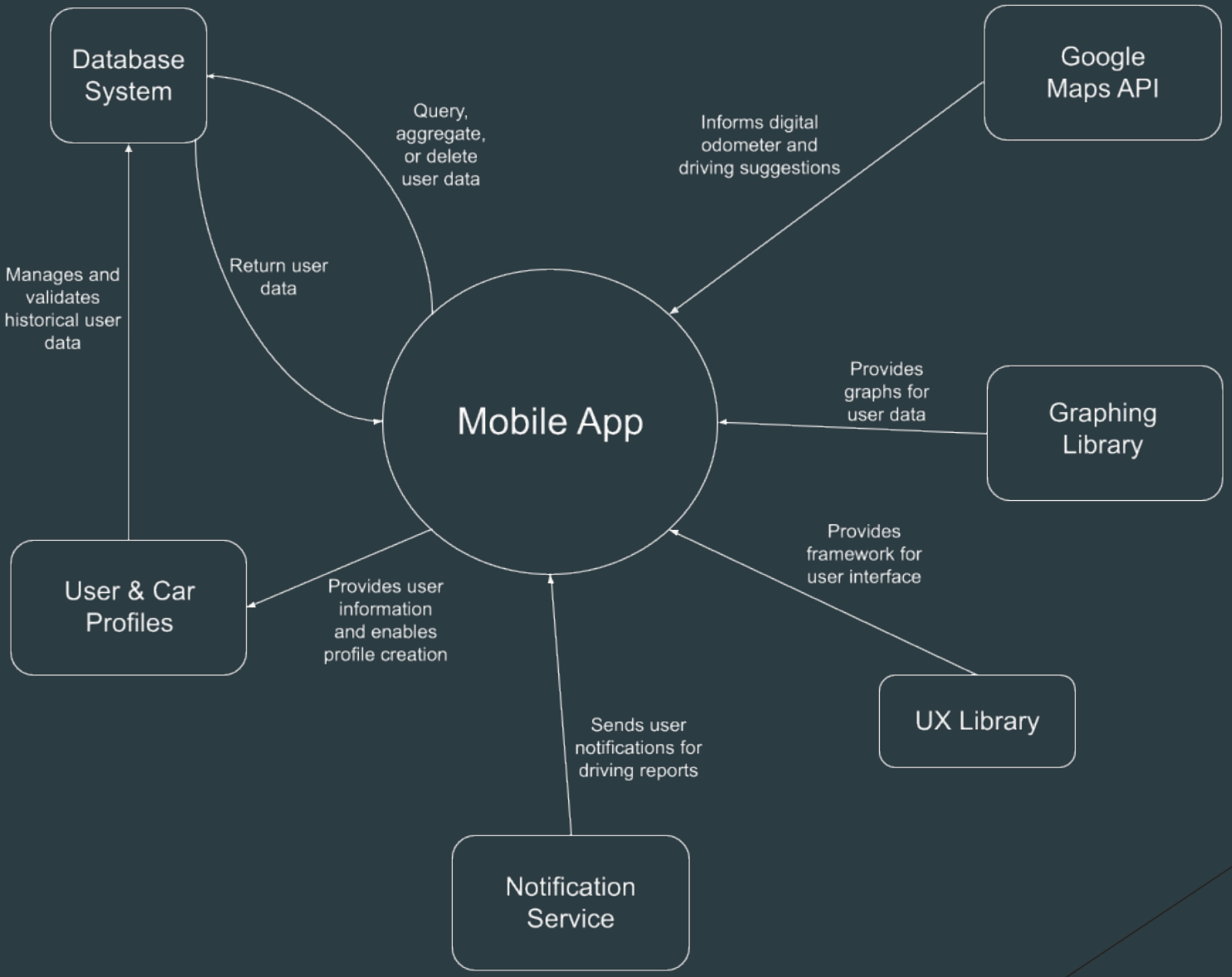
Velocity Estimate:

Capacity Estimate:

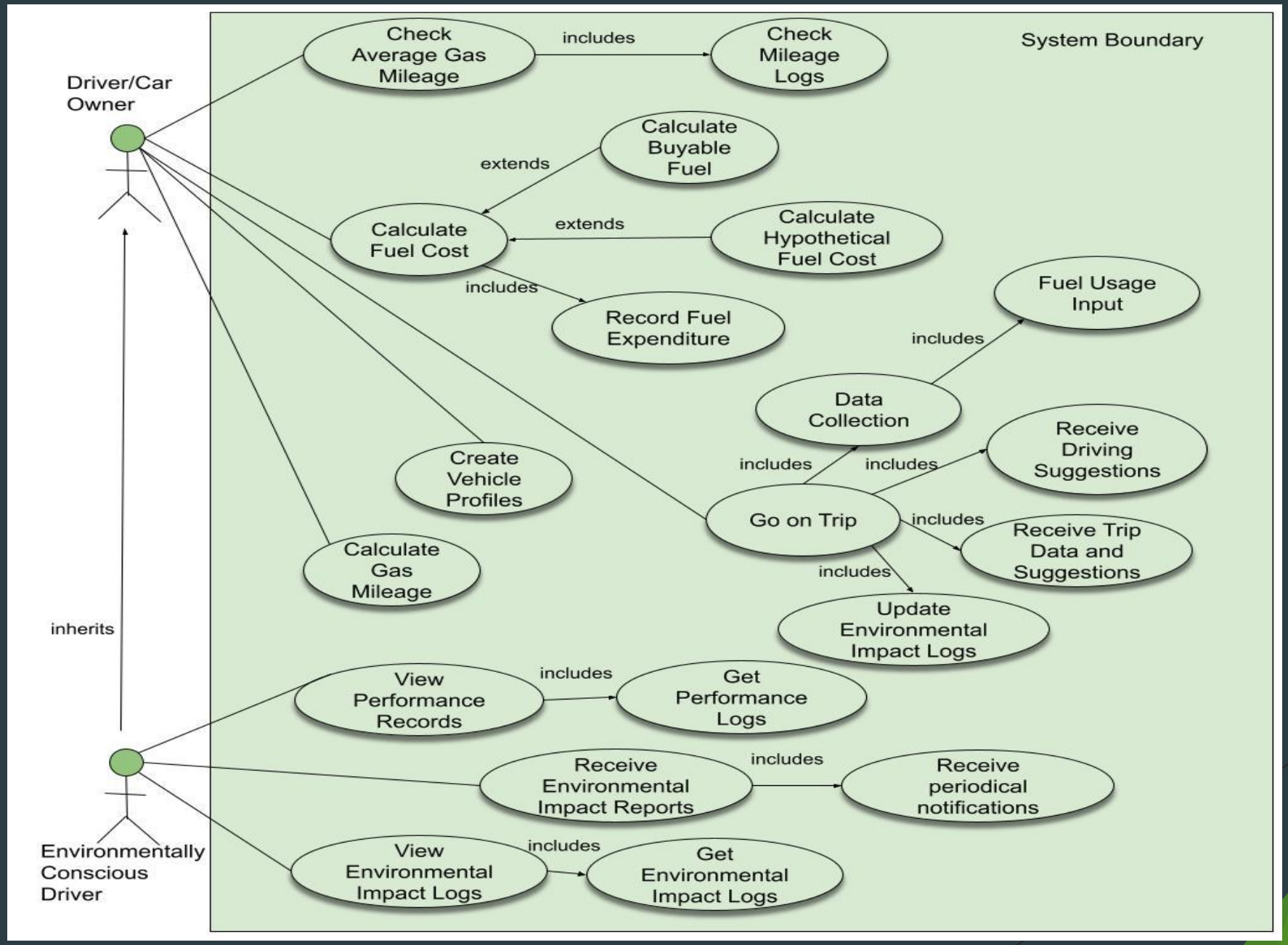
Layered System Architecture



System Context Model



Use Case Diagram



Concluding Remarks