Ride Along

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Introduction

Objectives

● The goal of our product is to create a web application that users can use to keep track of the value of their car and maintain their car's value as high as possible. The value of their car is determined by the car market along with how well their car is maintained and any modifications done to their car.

● Users can register within our app, allowing them to create, edit, and transfer vehicle profiles.

Background

Description

Project Scope

In Scope

Ride Along will be compatible with the latest Chrome version 116.0.5845.179 for Windows, macOS, and Linux. The application will only be available within the United States, using USD as currency and the imperial system for measurement, as of release the application will support Pacific Standard Time (PST) and Pacific Daylight Time (PDT) while the default language will be American English. The application only supports vehicles between 1992 and 2022.

Out of Scope

Description

User Type Requirements

	Unauthenticated User	Authenticated User	Vendor User	Renter User	Administrator

Core Feature Requirements

Logging

Log Activity

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App Specific Features

Vehicle Profile

User Story 1

As an authenticated non-admin user, I can create a profile for each of my cars that is only visible to me.

Effort Points

TBD

Data Source

N/A

App Permissions

Permission = Create

Scope = Profile

Target Audience

Any registered user

Pre Conditions

1.   You must have an IP address in the United States

2.   Must be already registered in our web application

3.   Must be on the Vehicle profile

Pass Requirements

●   Information about the car is displayed such as manufacturer, maker, trim level, year, license plate, color, and VIN number

●   Contact information is also shown such as the name of the user, phone number(Optional), and email.

● The service log becomes accessible

Fail Requirements

● The user is unable to input information about the car

● The information is not saved when revisiting the profile

User Story 2

As an authenticated non-admin user, I can choose what information in my vehicle profile

is visible to the public

Effort Points

20

Data Source

N/A

App Permissions

Permission = View

Scope = Profile

Target Audience

Any registered user

Pre Conditions

1. Must be a registered user

2. You must have created a vehicle profile

Pass Requirements

● The chosen information is displayed and viewable by any end-user

- The chosen information can be a mix of contact info, information on the car, or the service log of the car.

- The minimum amount of information to make public has to be information on the car such as color, maker, manufacturer, year, and name of the car owner.

Fail Requirements

- The chosen information is still non-visible to end users.

- The wrong information that the user did not choose becomes public

- End-users are not able to change information of another end-user vehicle profile

Service Log

User Story 1

As an authenticated non-admin user, I can keep track of the maintenance I have done on my car and know when the next maintenance is due.

Effort Points

TBD

Data Source

N/A

App Permissions

Permission = Log

Scope = Service Log

Target Audience

Registered users with vehicle profiles

Pre Conditions

1. You must have created a vehicle profile

2.   Must be on the service log

Pass Requirements

●   Is able to log when they last changed oil and coolant, brake fluid, power steering fluid,

and transmission fluid

●   Is able to log when they last changed brake pads/rotors, tires, windshield wipers,

belts/chains, air filter, spark plugs, and PCV valve

●   Is able to log when they last checked tire Pressure, tire alignment, tire rotations, battery

health, inspection of struts/shocks

●   Can provide evidence such as upload pictures of receipts for maintenance done

Fail Requirements

●   The data that was logged was not stored

●   Unable to input the data

●   You can not view previous logs

User Story 2

As an authenticated non-admin user, I can keep track of the damages done to my car and when

they have been repaired.

Effort Points

TBD

Data Source

TBD

App Permissions

Permission = Report

Scope = Service log

Target Audience

Registered users with vehicle profiles

Pre Conditions

1.   You must have created a vehicle profile

2.   Must be on the service log

Pass Requirements

●   The user is able to report minor damages done to the car

●   Is able to upload an official accident report on their car

●   Is able to upload receipts to corresponding parts that were repaired.

Fail Requirements

●   Given an accident report on the wrong car

●   Minor damages are not saved

●   Can not see the accident report

●   History of minor damages not being displayed

User Story 3

As an authenticated non-admin user, I want to be reminded of when to do my next maintenance

check.

Effort Points

TBD

Data Source

Origin = External

Details = https://vehicledatabases.com/vehicle-market-value-api/ and TBD

AuthN= TBD

App Permissions

Permission = Notify

Scope = Service Log

Target Audience

Registered users with vehicle profiles

Pre Conditions

1. Must have created a vehicle profile

2. Must have completed a maintenance log on a car part

3. A reminder is created and turned on by default as soon as a part is completely logged

Pass Requirements

● Receive a notification that a maintenance check on a part is due

Fail Requirements

● Give the wrong notification for the wrong part

● Give a notification when maintenance is not due anytime soon

Cost Center

Vehicle Market

User Story 1

As a selling user, I can get an estimate on if right now is a good time to sell the vehicle.

Effort Points

TBD

Data Source

Origin = External

Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/ and TBD

AuthN = TBD

App Permissions

Permission = View Vehicle Market

Scope = Cost Center

Target Audience

Any selling user

Pre Conditions

1.   You must have an IP address within the United States

2.   You must provide either the vehicle's make, model, and year (can be provided from a

vehicle profile)

3.   Approximate vehicle mileage must be provided (nearest 1000 miles)

4.   Input reason for why the vehicle is being sold (get rid of the vehicle, make money from

the vehicle, or others)

Pass Requirements

●   An estimate of the vehicle's resale value will be returned within 3 seconds

●   Reasoning for why the vehicle's resale value is returned as well

Fail Requirements

●   The user did not see an estimate

●   The result took longer than 3 seconds to be retrieved

- There is no reason for the estimate

<u>User Story 2</u>

As a buying user, I can get an estimate on if right now is a good time to buy a vehicle.

<u>Effort Points</u>

TBD

<u>Data Source</u>

Origin = External

Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/ and TBD

AuthN = TBD

<u>App Permissions</u>

Permission = View Vehicle Market

Scope = Cost Center

<u>Target Audience</u>

Any buying user

<u>Pre Conditions</u>

1. You must have an IP address within the United States

2. You must provide either the vehicle's make, model, and year

<u>Pass Requirements</u>

- Estimate on the vehicle's buy value will be returned within 3 seconds

- Reasoning for why the vehicle's buy value is returned as well

<u>Fail Requirements</u>

- The user did not see an estimate

- The result took longer than 3 seconds to be retrieved

- There is no reason for the estimate

Get Car Estimate

<u>User Story 1</u>

As an authenticated user, I can get an estimate on how much my car is worth selling.

<u>Effort Points</u>

TBD

<u>Data Source</u>

Origin = External

Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/

AuthN = TBD

<u>App Permissions</u>

Permission = Get/Retrieve Car Price

Scope = Cost Center

<u>Target Audience</u>

Any end user

<u>Pre Conditions</u>

1. You must have an IP address within the United States

2.   You must provide either the vehicle's make, model, and year or the vehicle's VIN (can be provided from a vehicle profile)

3.   Basic information on the car's condition must be provided in the vehicle's profile or given by the user (damaged, rough, average, clean, outstanding)

Pass Requirements

●   Price is displayed within 3 seconds for the right vehicle

Fail Requirements

●   The user did not see a price for their vehicle

●   The price took longer than 3 seconds to be retrieved

●   The wrong price for the selected condition of the vehicle was retrieved

User Story 2

As a guest user, I can get an estimate on how much I should pay for a car of my choice.

Effort Points

TBD

Data Source

Origin = External

Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/

AuthN = TBD

App Permissions

Permission = Get/Retrieve Car Price

Scope = Cost Center

Target Audience

Any registered user

Pre Conditions

1.   You must have an IP address within the United States

2.   You must provide the vehicle's make, model, and year

3.   You must provide basic information on the car's condition (damaged, rough, average,

clean, outstanding)

Pass Requirements

●   Price is displayed within 3 seconds for the right vehicle

Fail Requirements

●   The user did not see a price for their vehicle

●   The price took longer than 3 seconds to be retrieved

●   The wrong price for the selected condition of the vehicle was retrieved

Part Repairs

User Story 1

        As an owner-user, I can get an estimate on how much I should pay for parts and labor for

a repair.

Effort Points

        TBD

Data Source

        Origin = External

        Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/

AuthN = TBD

App Permissions

Permission = Get/Retrieve Part Cost

Scope = Cost Center

Target Audience

Any registered user

Pre Conditions

1.   You must have an IP address in the United States

2.   You must provide the vehicle make, model, and year (can be provided from a vehicle profile)

3.   You must provide the part type (ie. fluids, bumper, suspension, exhaust, etc.)

Pass Requirements

●   High, average, and low prices for parts and labor are retrieved within 3 seconds

Fail Requirements

●   Prices for parts and labor are not retrieved within 3 seconds

●   Prices for parts and labor are for a different vehicle

●   All results are not viewable

User Story 2

As a maintenance user, I can get an estimate on how much I should pay/charge for parts for a repair.

Effort Points

TBD

Data Source

Origin = External

Type = API

Details = https://vehicledatabases.com/vehicle-market-value-api/

AuthN = TBD

App Permissions

Permission = Get/Retrieve Part Cost

Scope = Cost Center

Target Audience

Any registered user

Pre Conditions

1.   You must have an IP address in the United States

2.   You must provide the vehicle make, model, and year (can be provided from a vehicle

profile)

3.   You must provide the part type (ie. fluids, bumper, suspension, exhaust, etc.)

Pass Requirements

●   High, average, and low prices for parts and labor are retrieved within 3 seconds

Fail Requirements

●   Prices for parts and labor are not retrieved within 3 seconds

●   Prices for parts and labor are for a different vehicle

●   All results are not viewable

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BUSINESS REQUIREMENT DOCUMENT

Vehicle Profile Marketplace

Search

User Story 1

   As any user, I can search for cars with optional specifications on: price, fuel economy, body type, transmission type, drivetrain, color, make, model, and year. By default it is sorted by price. If no vehicles meet the requirements, ask me to change my specifications.

Effort Points

TBD

Data Source

   N/A

App Permissions

   Permission = View

   Scope = Vehicle Profile Marketplace

Target Audience

   Users looking for certain cars

Pre Conditions

1. You must have an IP address in the United States

2. You must be in the Vehicle Profile Marketplace feature

3. Can select another attribute to sort by.

Pass Requirements

● Results of vehicles that match the user's specifications within 3 seconds

● Results of vehicles are sorted based off user's selected attribute or the default

● No results show if there are no vehicles with the user's selected attributes

Fail Requirements

- No results show if there are vehicles that meet the searched criteria

- Private vehicles are shown

- Results are retrieved after 3 seconds

View

User Story 1

As an end-user, I am able to view authenticated user's vehicle profiles

Effort Points

TBD

Data Source

N/A

App Permissions

Permission = View

Scope = Vehicle Profile Marketplace

Target Audience

All users

Pre Conditions

1. You must have an IP address in the United States

2. You must be in the Vehicle Profile Marketplace feature

Pass Requirements

- Will show public vehicle profiles such as a picture of the car with model, maker, and year

within 3 seconds

- Each vehicle profile will have a rank or state a rank has not been given yet

Fail Requirements

- No vehicle profiles are shown

- Private vehicle profiles are shown

- Ranks of the vehicle profiles are not shown

- It took longer than 3 seconds to view a selected vehicle profile

Buy/Sell Car

Search

User Story 1

As any user, I can search for cars with optional specifications on: price, fuel economy, body type, transmission type, drivetrain, color, make, model, and year. By default it is sorted by price. If no vehicles meet the requirements, ask me to change my specifications.

Effort Points

TBD

Data Source

Origin = Internal

Type = Database

Details = ForSale

App Permissions

Permission = Search

Scope = Buy Car Information

<u>Target Audience</u>

       Users looking to buy a car

<u>Pre Conditions</u>

1. You must have an IP address in the United States

2. You must be in the Buy Car feature

3. Can select another attribute to sort by

<u>Pass Requirements</u>

- Results of vehicles that match the user's specifications within 3 seconds

- Results of vehicles are sorted based off user's selected attribute or the default

- No results show if there are no vehicles with the user's selected attributes

- Asks the user to search again with different attributes if no results show

<u>Fail Requirements</u>

- No results show if there are vehicles that meet the searched criteria

- Private vehicles are shown

- Results are shown after 3 seconds

- Does not ask the user to search again if no results show

View

<u>User Story 1</u>

       As an end-user, I am able to view the selected vehicle

<u>Effort Points</u>

       TBD

<u>Data Source</u>

       Origin = Internal

Type = Database

Details = ForSale

App Permissions

Permission = View

Scope = Buy/Sell Car

Target Audience

All users

Pre Conditions

1. You must have an IP address in the United States

2. You must be in the Buy/Sell Car feature

Pass Requirements

● Vehicle profile is shown within 3 seconds

Fail Requirements

● No vehicle profiles are shown

● Private vehicle profiles are shown

● Ranks of the vehicle profiles are not shown

● It took longer than 3 seconds to view a selected vehicle profile

Request Car Buy

User Story 1

As an authenticated user, I can request to buy a car I previously searched for and retrieve contact information of the seller after they accept the request.

Effort Points

Origin = Internal

Type = Database

Details = ForSale

Data Source

N/A

App Permissions

Permission = Request

Scope = Buy/Sell Car, Notification Center

Target Audience

Authenticated users looking to buy a car

Pre Conditions

1. You must have an IP address within the United States

2. The vehicle must be on the marketplace

Pass Requirements

● Request is sent to the seller within 3 seconds

Fail Requirements

● Request is not sent within 3 seconds

User Story 2

As an authenticated selling user, I can receive requests sent by other users and confirm their offer. My contact information will also be automatically sent after accepting an offer.

Effort Points

TBD

Data Source

Origin = Internal

Type = Database

Details = ForSale, UserProfile

App Permissions

Permission = Accept

Scope = Buy/Sell Car, Notification Center

Target Audience

Authenticated users selling a car

Pre Conditions

1. You must have an IP address within the United States

2. You must have an awaiting request

3. You must provide some contact information (email or phone number)

Pass Requirements

- Action confirmation is shown within 3 seconds

- Request is confirmed and notification is sent to the other user

- Accepted requests send contact information to the other user

- Denied requests do not send contact information to the other user

Fail Requirements

- Action confirmation takes longer than 3 seconds

- Request is still awaiting confirmation

- Request does not send notification to the other user

- Accepted requests do not send contact information

- Denied requests send contact information

Transfer Car Information

<u>User Story 1</u>

As an authenticated user with at least one public vehicle that I own, I can transfer a vehicle profile to another user.

<u>Effort Points</u>

TBD

<u>Data Source</u>

Origin = Internal

Type = Database

Details = CarProfile, UserProfile

<u>App Permissions</u>

Permission = Transfer

Scope = Buy/Sell Car

<u>Target Audience</u>

Sellers of public cars on the marketplace

<u>Pre Conditions</u>

1. You must have an IP address in the United States

2. You must have one or more public car that they own

3. The vehicle must be the vehicle that the other user requested for

4. The vehicle must be on the marketplace

<u>Pass Requirements</u>

- The vehicle profile has been transferred to the other user within 3 seconds

- The vehicle is no longer in the current user's profile

- All history attached to the vehicle is transferred with the car profile

- Vehicle profile is removed from marketplace

Fail Requirements

- The vehicle profile has not been transferred to the other user

- The transfer took longer than 3 seconds

- The vehicle is still in the current user's profile

- Some or all vehicle history is not attached to the car profile

- Vehicle profile remains on the marketplace

Notification Center

User Story 1

As an authenticated user, I would like to be notified when an offer has been sent to me for selling my car

Effort Points

TBD

Data Source

N/A

App Permissions

Permission = Notify

Scope = Notification Center

Target Audience

Authenticated users

Pre Conditions

1.   Must have a vehicle profile

2.   Must have put that vehicle profile up for sale

Pass Requirements

●   Receive an alert about an offer for a vehicle profile the user has put up for sale

●   Will state if there have been no offers for the vehicle profile

Fail Requirements

●   An alert was given but an offer was not

●   There was an offer given but no alert was sent

User Story 2

        As an authenticated user, I would like to be notified if there has been a safety recall for

my vehicle

Effort Points

        TBD

Data Source

        TBD

App Permissions

        Permission = Notify

        Scope = Notification Center

Target Audience

        Users with vehicle profiles

Pre Conditions

1.   Must have a vehicle profile

2.   Must be on the Notification Center

Pass Requirements

●   Will send an alert if a recall has been issued for the vehicle model the user has

●   Will state if no recalls have been issued

Fail Requirements

●   Give an alert for a safety recall the user does not have the model of

●   An alert was not given even though a safety recall was issued for a model the user owns

Car Health Ranking

User Story 1

As an authenticated user, I want a rank on how healthy my car is so I am more reputable

Effort Points

TBD

Data Source

TBD

App Permissions

Permission = Estimate rank

Scope = Car Health Ranking

Target Audience

Authenticated users

Pre Conditions

1.   Must have a vehicle profile

2.   Must have a service log

3.   Must be on Car Health Ranking feature

Pass Requirements

●   User will be given a 'D' rank if service log is incomplete and maintenance was done late

●   User will be given a 'C' rank if service log is completed with no proof and average

maintenance done between on time and late.

●   User will be given a 'B' rank if the service log is completed and proof is also uploaded

such as receipts for the parts that were maintained and average maintenance is done regularly on

time or early.

●   Users will be given an 'A' rank if the service log is complete and proof is uploaded such

as receipts for parts maintained. Also, the average maintenance was done early or on time.

Finally, an official accident report of the vehicle was also uploaded as evidence.

Fail Requirements

●   The rank is not visible

●   The rank was not given

●   The wrong rank was given to the user

●   The rank is not saved

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