**Path to Finishing GoFar 5-17-2021**

* **Finish implementing Google Maps API for the orders page**
  + Correct the Order model
    - Looks like it only has shippingAddresses and nothing for billingAddress, but we are somehow posting a billing address, too…
      * Change shippingAddresses to singular shippingAddress
    - Move the shippingLatLng outside of the shippingAddress object
    - Remove the geocoding from the map creation part of the maps
      * Feed the map the shippingLatLng
    - Consider unmounting the Google Maps script when a PayPal transaction is cancelled or fails
      * Currently, it is added when the user clicks the PayPal button, and then just stays there regardless of outcome
* **Create Review Functionality**
  + Finalize ReviewSchema in the Product model
    - Copy/paste some reviews for the products from the Eddie Bauer website and add them to the product files used by the seeder file
      * Import these into the database
  + Add front end section to the product page to show existing reviews
    - Implement pagination like how we did the orders on the orders page
  + Add form just below these with input fields for users to add a review
    - Implement local state for these values
      * Add a text area for a written review. Implement a length limit of 5000 characters and display this to the users as they type the review.
      * Add a star rating. Either via dropdown or radio button. See if Bootstrap has a built in selector for something like this. They have a built in thing for displaying average ratings (the name escapes me right now)
    - If the user is not signed in – show the form, but disabled, with a message that they must sign in to leave a review
    - Set up the backend for this before proceeding with an onSubmit() for the form
  + Set up Backend for adding new reviews
    - Add a new post route for adding a review – ‘/api/products/:id/review’
      * Make it a protected route. The user must be signed in.
    - Add a new function in productController.js for adding a review and add it to the route above
      * Function takes an optional userID
        + If(userID) search that user’s orders and check if they have actually purchased that item before.

If so, make it “Verified Purchase”

* + - * + Fetch that product from the database
        + Add the review locally in the function

Consider adding it to the beginning of the array of reviews (newest first)

* + - * + Update the product in the database with .save()
  + Finish onSubmit() for the Review Form
    - Recreate the backdrop we used when users submit an order and display it once Submit is clicked
      * See if we can reuse the same backdrop
        + Consider using optional props to accomplish this
    - Perform any form validation
      * Check for a minimum and maximum length on the review
        + Max length can probably be done with an onChange() in the text area. If users go over 5000 just stop updating the value
      * Consider a profanity filter on the review text
      * Check for a chosen star rating
        + We can just keep the submit button disabled until the star rating is chosen. Maybe do the same for minimum length.
    - Use axios to send a POST request to our backend
      * On success
        + Stop showing the backdrop
        + Make a success message with toastify()
      * On failure
        + Stop showing the backdrop
        + Display an error message using toastify()

Consider an error message using the <Message /> component, too

* **Add qty change functionality to the cart**
  + Consider the ability to change multiple quantities locally in state, then solidifying them with an “Update Cart” button
  + Come back to this when we get to it and plan ahead before proceeding