Diving Denizens - T2A2 Marketplace Assessment

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Identification of Problem to Solve

There is no dedicated two-sided marketplace app in existance as far as I'm aware that is catered towards buying and selling used dive gear in Australia.

Why is it a Problem that Needs Solving?

Buying and selling used dive gear can be challenging, as although it is targeted towards a relatively small consumer market, there is such as arguably massive amount of different categories and sub-categories of dive equipement types (e.g. "wetsuit", "fins", "camera", "camera housing", etc.). This makes filtering and searching for specific dive gear to buy quite challenging in the used market. To elaborate, the most common means I've noticed of selling used gear is either via social media (e.g. Facebook), or a general marketplace site (e.g. Gumtree), but these sites aren't tailored with divers in mind who want to search for specific dive gear!

Furthermore, I've noticed anecdotally that many divers tend to sell their equipment in 'bundles' or as gear packages in the single 'listing. This presents a problem if a buyer only wants one item of gear from the bundle, and then the seller is forced to delete his original listing of a gear bundle, and re-list it again with the now missing one item that was bought. I want to encourage the seller to sell gear in seperate listings, and so then the seller can choose to apply a discount if the buyer chooses to purchases multiple items from the one seller in the one order and transaction.

Deployed App Links

Production:

https://divingdenizens.herokuapp.com/

Staging (use with caution):

https://staging-divingdenizens.herokuapp.com/

How to Use (Deployed Apps)

1. Browse to the 'production' deployed app link above. The deployed app has already been seeded with 2 registered user accounts and 3 item listings, amongst other seeds, by default.
2. If you are **not signed in:**
   - Click **Sign In** on the top-right nav bar
   - Enter in for email, either: **test@test.com** (for a 'normal' user) OR **admin@test.com** (for an 'admin' user)
   - Enter in for password: **abc123** (lowercase)
3. If you've signed in as the 'normal' user, it has the username **normaluser123**, and owns 2 listings (the 'wetsuit' and the 'mask/snorkel').

4. OR, if you've signed in as the 'admin' user, it has the username **adminuser123**, and owns 1 listing1 (the 'dive computer').

Please note that as of writing, there is no 'admin' only functionality yet implemented into the app's logic, only in the database.

GitHub Source Respository Link

https://github.com/chullman/diving-denizens

How to Use (From GitHub repo)

1. **System requirements** (this was built, tested and managed on an Ubuntu 20.04 environment):
   - Rails 6.1.6
   - Ruby 2.7.5
   - Node 16.15.0
   - Postgresql 12.10
2. Start the postgresql server locally with the command: **sudo service postgresql start** (enter your sudo password).
3. Clone the above GitHub repo to your local machine.
4. In terminal, CD into the root directory of your cloned repo.
5. Run the command: **bundle** (to install Gems).
6. Run the command: **yarn** (to install Node dependencies).
7. OPTIONAL, run the command: **rails webpacker:install** (should not need to override any files when prompted).
8. OPTIONAL, run the command: **rails webpacker:compile**
9. Run the command: **rails db:create**
10. Run the command: **rails db:migrate**
11. OPTIONAL, run the command: **rails db:seed**
12. Proceed with the steps in the **How to Use (Deployed Apps)** section above if you ran Step 11.