

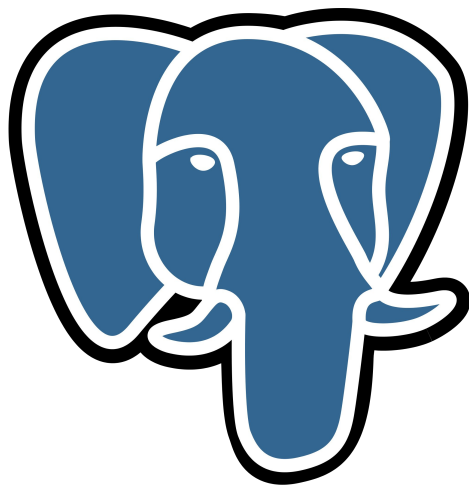
TARMAC Stockpile

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General Info: Store front

- Management Method
 - AGILE
 - Weekly stand-ups
 - Meeting logs
 - Sprint
 - Pair Programming
 - Linking parts of project
 - Tackling bugs
 - Deciphering Github error messages
- Project usefulness
 - 3.5 / 5

Tools used



PostgreSQL - Database

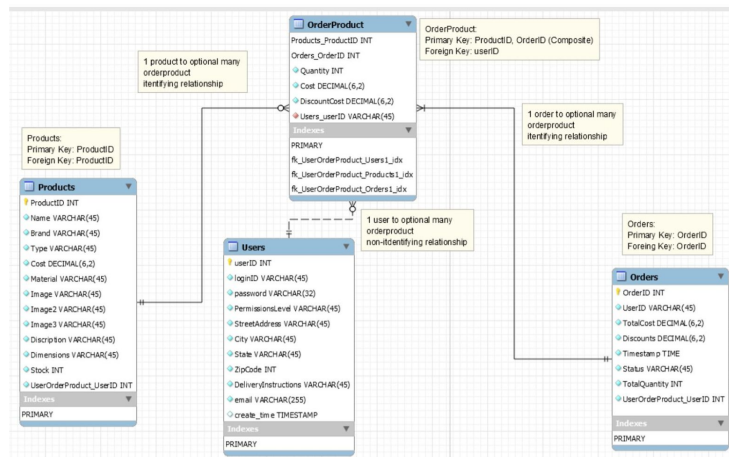
Pros:

- Easy to use
- Fast updates server-side

Cons:

- None that we found

Database for "The Stockpile" by Team TARMAC



https://github.com/bensont/TARMAC_TheStockpile/tree/master/OldFiles/StockpileDesign/Database

File deployed to Heroku: [databasePostgres.sql](#)

Note: This image is from our first database built through mySQL
The deployed database has modifications and is through Postgres

Tools used



Node.js (Express) - Integration Layer

Pros:

- Fast
- Easy to test locally
- Easy to run on Heroku
- Readable, intuitive code

Cons:

- Error messages can be hard to figure out

Tools used



Github - Version Control

Pros:

- Helps develop new features with branches
- Heaps of helpful documentation online

Cons:

- Error messages can be hard to figure out
- Nightmare merge conflicts
- Easy to mess things up for everyone in the group, even easier to mess up the repo locally and have to restore old versions to fix bugs



Tools used



Bootstrap - UI/Front-end

Pros:

- Easy to use
- Super modular
- Very powerful once we knew what components could be combined

Cons:

- HTML is frustrating to get the layout just right
- A live view would have been useful to see changes to HTML without having to push to the repo

Tools used



Heroku - Cloud hosting

Pros:

- Easy to update (connect with Git repo)
- FREE
- Nice interface that has live updates when building

Cons:

- Updating is SLOW once we had images that we were hosting
- No way to view logs online, the admin must do it from the console



Tools used



Trello - Project Tracker

Pros:

- Easy to update
- The project can be distributed into parts (cards)
- Each card contains info
- due date
- checklist for the assignment
- coloring and labeling to
- Cards can be moved between progress points

Cons:

- If cards are not updated by those working on them, overlapping work can occur.



Tools used



Selenium - Testing

Pros:

- Can test website in multiple browsers
- Can perform user interactions such as filling out forms and clicking links and buttons
- Takes screenshots to record testing
- Each test can be written with few lines of code

Cons:

- Screenshots are good to visualize the tests, but require viewing to get feedback from testing
- We had some difficulty in installing some of the browser drivers for testing with Selenium



Team Communication

Voice and Text Channel:



- Discord
 - Coordinate the team through text check-ins during the sprint
 - Meet remotely from home when we had less work to do

Weekly Meetings:

- Met weekly for 2 hours for stand-up and linking up parts of the project
- Pair-programming on harder parts of the assignment or when squashing bugs

Pair Programming:

- Throughout the week, when there was a hard problem to solve, or when there were two parts that needed to be linked together, team members would meet and program together

What bugs/problems we had and how we fixed them

Bugs/Problems

- Connecting all layers with the database correctly
- Linking pages together (i.e., clicking on user should redirect you to user account page)
- All buttons in Navigation should take you somewhere
- Duplicate user registrations

Solutions

- Testing
- For the admin pages that included getting everything all linked up in the header and making sure it is correct
- Removing button where there are useless buttons and making sure all the buttons are correctly linked up
- Verify credentials aren't already being used in the DB

Lessons Learned

What worked well:

- Meeting in small groups during the week
- Meeting every week to discuss the scope of the project
- Having a text channel where we could communicate questions
- Hybrid meetings where half the group would meet in person and the other half on Discord

What didn't work:

- Morning meetings on Sundays led to people missing groups periodically or having to check-in on Discord for a hybrid meeting
- Meetings on Sundays led to “crunch-time” on Fridays and Saturdays

Next Steps

- Contact us page
- Add more products/categories
- Getting the orders listed and looking at what items were ordered
- Default image if a product doesn't have images it can access
- On the chart edit the quantity of items being ordered
- Change the color scheme and other aesthetics (images, formatting, etc.)
- Implement search bar function

Live demo

<https://the-stockpile.herokuapp.com/>

<https://the-stockpile.herokuapp.com/admin>

Thank you for you time.
Questions/Comments?
