Group 0x: Recipe Finder

Front End: Bailee Mulholland

Middleware: Aidan Anderson & Jordan Hernandez

Back End: Frank Stinar & Luis Veltze

Full stack: Joshua Achorn

About Recipe Finder

- A website where users can:
- Create an account w/ email and password
- Save ingredients they have on hand
- Generate recipe results for specific ingredients

Project Tracking/Communication

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Project Tracker: Trello

- Great for an online kanban board
- Not great for communication
- Tedious to update

Project | Software Dev Project Free | Team Visible | FS A BM JH JA 6 | Share | Calendar | Show Menu

Must-Have

- Create Bootstrap, HTML, and CSS docs needed
- Start on store map — Oct 18
- Back-End to Hold info
- Have store map done, progress on pathfinding alg — Oct 23
- Work on pathfinding algorithm — Oct 25
- Route planner done, focus on integration to website+ease of use — Oct 30

+ Add another card

3-Week Sprint

+ Add a card

In Progress

+ Add a card

Done

- Make HTML Front-End Home Page (Attach BootStrap) -begin — Oct 16 — BM FS
- Front-End User Interface
- Make a user database — FS
- User Accounts and graphics — JA
- CSS for Home Page- begin — Oct 16 — BM
- Figure out recipeDB layout — FS
- Researching/trial website crawler for grabbing certain item names — Oct 16 — JH
- Database for recipe information — FS
- Changed color to salmon — BM
- Crawler to grab recipes/ingredients

+ Add another card

Sad Not Happen Stuff

- Store trip route planner — 1
- Creat virtual map of store/pathfinding algorithm — A
- Create tool to grab item names/DCPI from Target website — Oct 16 — A

+ Add another card

+ Add another list

5★

Communication Platform: Slack/iMessage

- Slack was very useful to send files between the group or project updates
- iMessage was used more for setting up meetings

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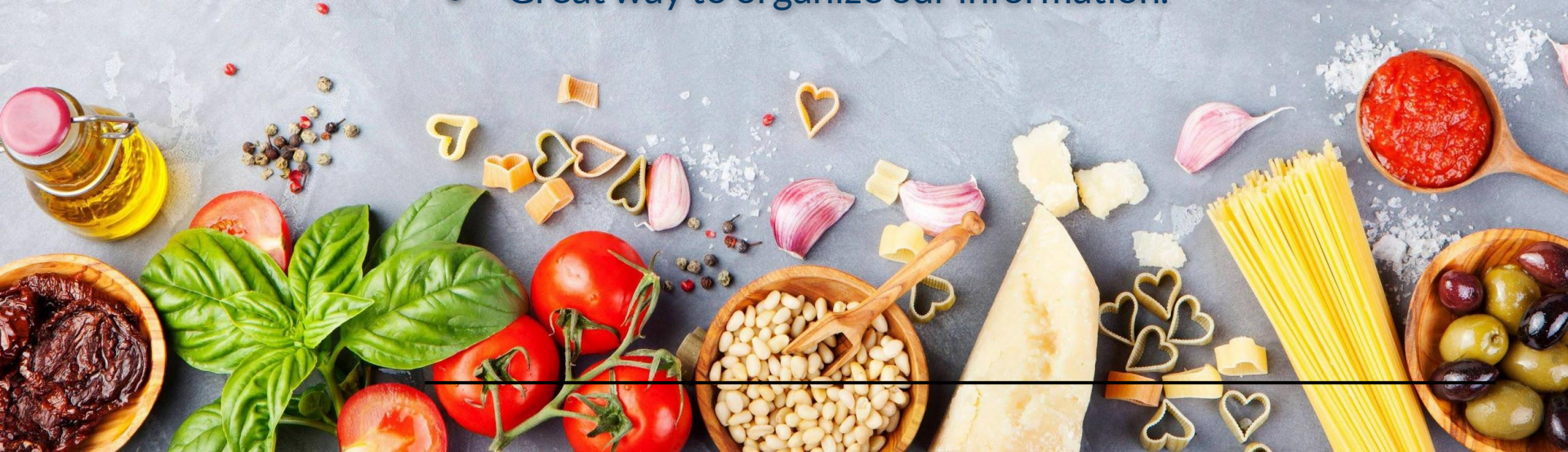
VCS Repository: GitHub

GitHub

- Extremely useful for real time updates on what people have finished.
- Great way to organize our information.



Project Management Method

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Agile

- Having an initial Kanban board allowed for the group to get all ideas on the table.
- Short sprints allowed for constant/steady progress.
- Allowed for changes to happen in the project if they needed to.

3

Database: PostgreSQL/Firebase

- Pretty tedious to use however were needed to store the information we required.
  - Connecting primary keys with foreign keys
  - Querying data to display it on the website
  - Firebase had a more intuitive interface
- Transitioned from PostgreSQL to Firebase.
  - Free to use
  - Easy to connect

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FIlling the database

- Python script using selenium
  - Simulates a browser
  - VERY slow
- Wouldn't recommend for a continuously updated product
  - Worked well for a one time use script

Testing

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Testing Tool: SAHI Pro

- In testing our website, 3 things we had to be tested
  - Creating user accounts
  - Adding/deleting ingredients
  - Displaying relevant recipes
- Great choice for a simplistic website
  - Record actions for Sahi to repeat

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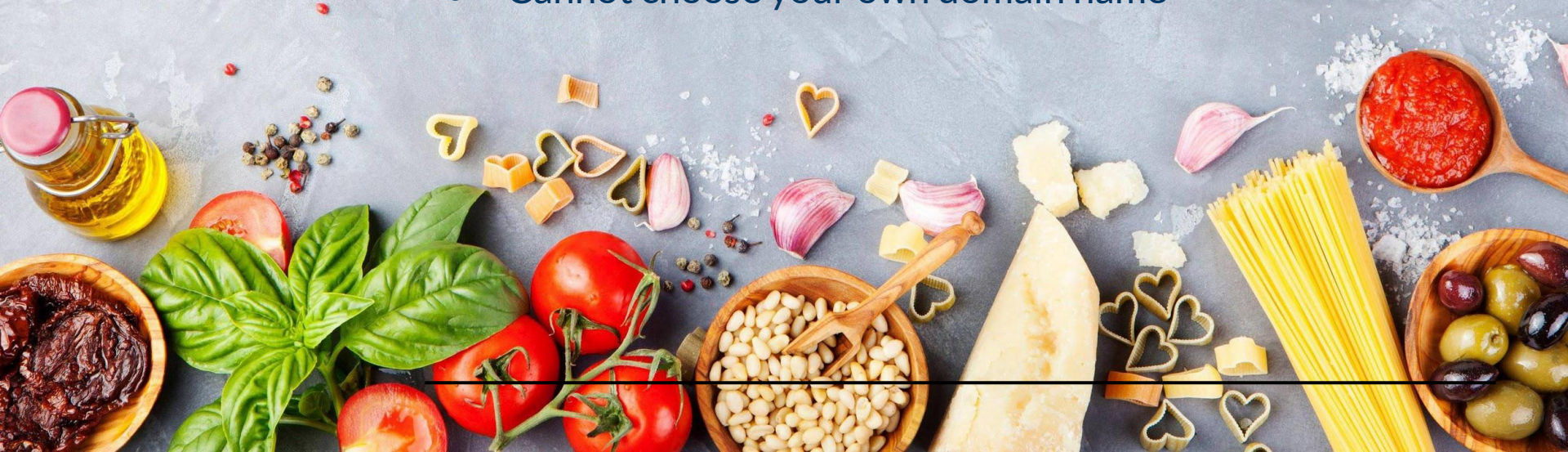
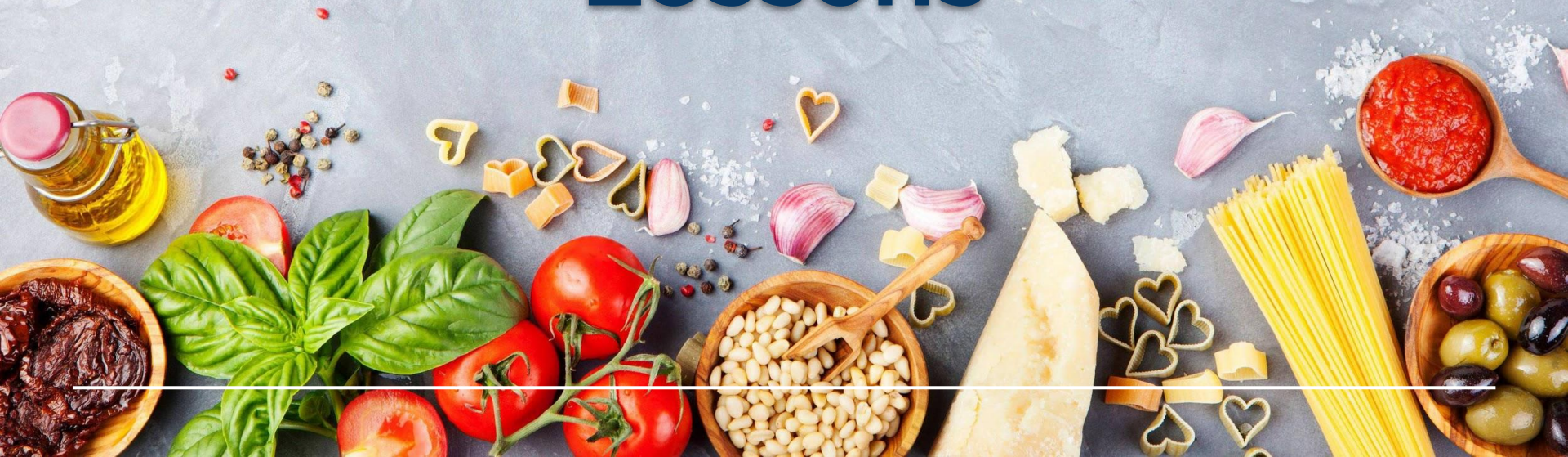
Deployment Environment: GitHub

- Free to host
- Easy to set up
- Cannot choose your own domain name



Future Work & Lessons



Future Work

- Use a web framework like django to connect backend and frontend in a more natural way
- Increase the recipes data to include recipes from different sites
- Make the website more secure by analyzing possible threats
- Allow for users to query the database not only based on ingredients, but cookware as well.

Lessons Learned

- We learned that connecting a database to a website was a lot harder than what we thought
- Finding times where everyone could meet consistently is quite the task with everyone's busy schedules.
- Not everything that you work on will make it to the final product. (PostgreSQL DB/ chrome extension)

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Our Project