Habitude
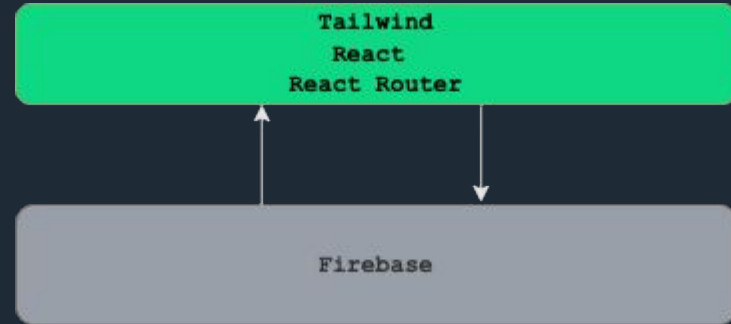
Katsuya Wakabayashi, Megan Schmid, Johanna Liu, Yichun Li, Brad Lowe

Habitude

- Habit tracker app

- Keep track of daily tasks!

- Visually appealing
  display w/ heat map

- Personal accounts

- Dark mode

- Display quote

Architecture / Tech Stack

- ReactJS for frontend

  - Hooks and Context API

  - Tailwind

  - React router dom

  - UUID

  - React calendar heatmap

- Firestore(Firebase) for backend
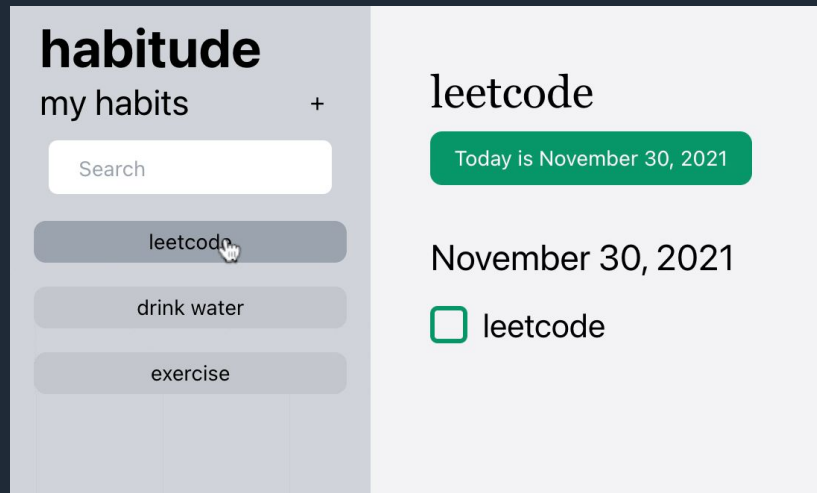
  - Save user accounts

  - Save user habits

```
┌──────────────────────────────┐
│          Tailwind            │
│           React              │
│        React Router          │
└──────────────────────────────┘
          ▲         │
          │         ▼
┌──────────────────────────────┐
│           Firebase           │
└──────────────────────────────┘
```

Demo time! 😎

https://tinyurl.com/CS35habitude

- Dynamically renders habit lists
- Renders individual habit pages

● Upload Data from Client to Back-End

○ Uploads data from user and stores it in Firebase database

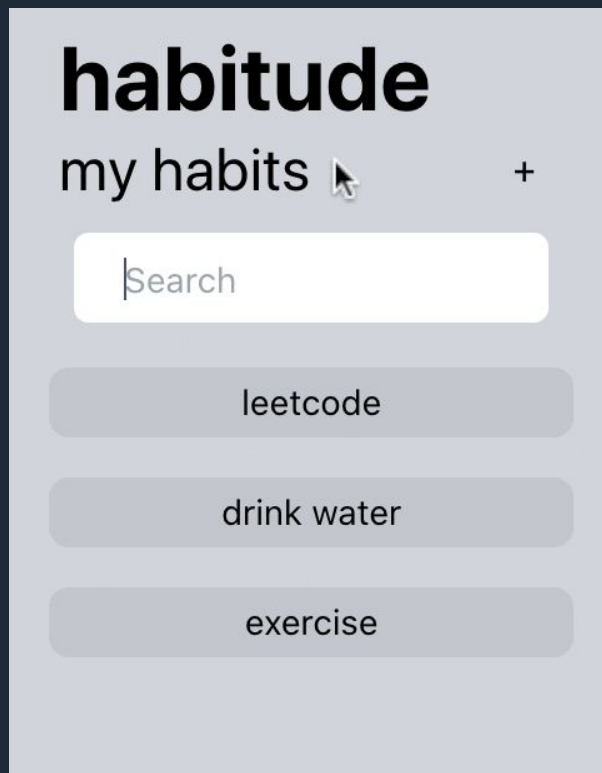▫ Create new habit

▫ Daily progress

▫ Delete habit

exercise

December 2, 2021

☐ exercise

delete

Meaningfully Search Through Server-Side Data

- Search habits by name
- Automatically updates side panel
- Only displays matching habits
- Case insensitive

Key Features

- Login / Signup

- Time Based Display
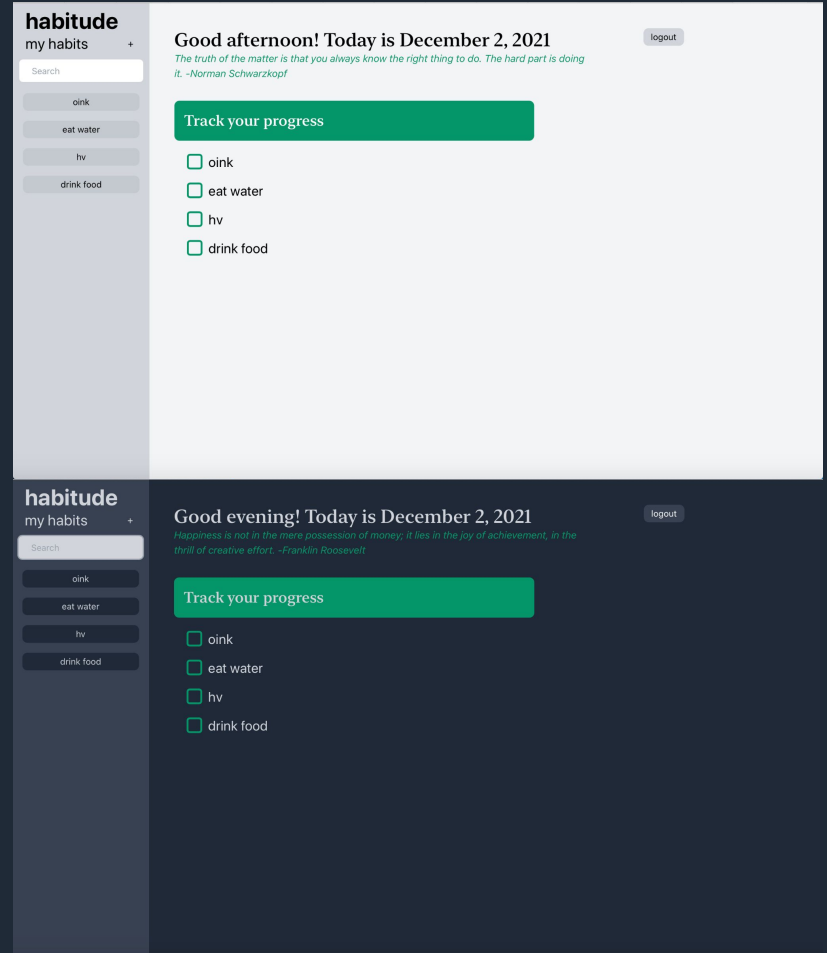
- Inspirational Quote API

- Daily To-Do List

- Heat Map

Login / Signup

- Used Firebase, Google's mobile/app development platform
- Imported methods
  - getAuth
  - onAuthStateChanged
  - createUserWithEmailAndPassword
  - signInWIthEmailAndPassword
  - signOut
- Saves emails & passwords as refs and pass them to our functions

Time Based Display

- Dynamic greeting

- Dark mode active from 6 pm to 5 am

- Uses TailwindCSS "dark" class and JavaScript current date feature

- Active on every page, including login/signup

Inspirational Quote API

- Displays random inspirational quote when page is refreshed
- Uses API from type.fit/api/quotes

Good afternoon! Today is December 2, 2021
My mama always said: life's like a box of chocolate you never know what you gonna get. -Forrest Gump

Good afternoon! Today is December 2, 2021
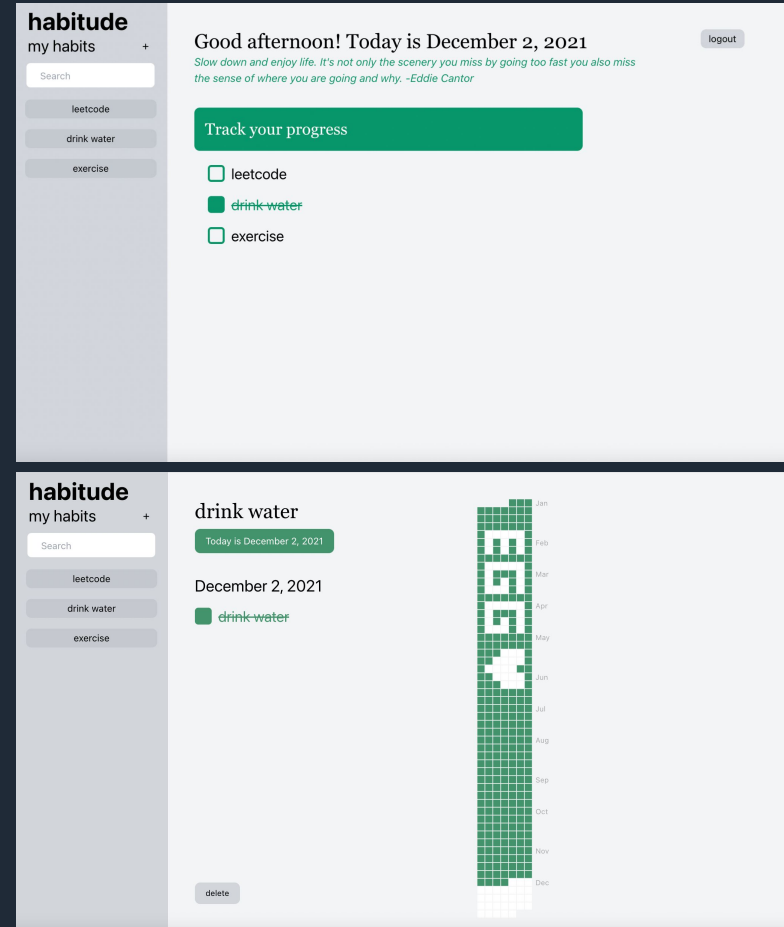*Never tell me the sky is the limit when there are footprints on the moon. -Unknown*

Good afternoon! Today is December 2, 2021
Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less. -Marie Curie

Daily To-Do List

Home page

- Daily to do list associated with the current date

Heat Map

Habit page:

- Emulates look of bullet journal habit trackers
- Checkoff
- Hover: Tooltip
  - Date
  - Bool completed
- On click
  - Sets date associated with checkbox to date associated with square

Heat Map

Initializing habits

- Push habit name
- Push habit ID
- Push calendar data
  - For each day of the current year
  - string date
  - bool completed

```
44  export async function sendHabitToFirestore(uidPath, habitName) {
45    const db = getFirestore();
46    const habitId = uuidv4();
47    const pathDocRef = doc(db, "users", uidPath, "user_habits", habitId);
48
49    //initialize habitValues for the whole year
50    const habitValues = [];
51    var d = new Date();
52    var year = d.getFullYear();
53    for (let month = 1; month <= 12; month++) {
54      month < 10 ? (month = "0" + month.toString()) : (month = month.toString());
55      for (let day = 1; day <= 31; day++) {
56        day < 10 ? (day = "0" + day.toString()) : (day = day.toString());
57        var dateString = year.toString() + "-" + month + "-" + day;
58        var value = { date: dateString, completed: false };
59        habitValues.push(value);
60      }
61    }
62
63    await setDoc(pathDocRef, {
64      name: habitName,
65      id: habitId,
66      calendarData: habitValues,
67    });
68  }
69
```

Future Goals

- Button to toggle between light mode/dark mode
- Allow user to set their name for a personalized greeting message
- Mobile version
- Add more quotes from today's greatest thinkers (Eggert)

Thank you for listening!