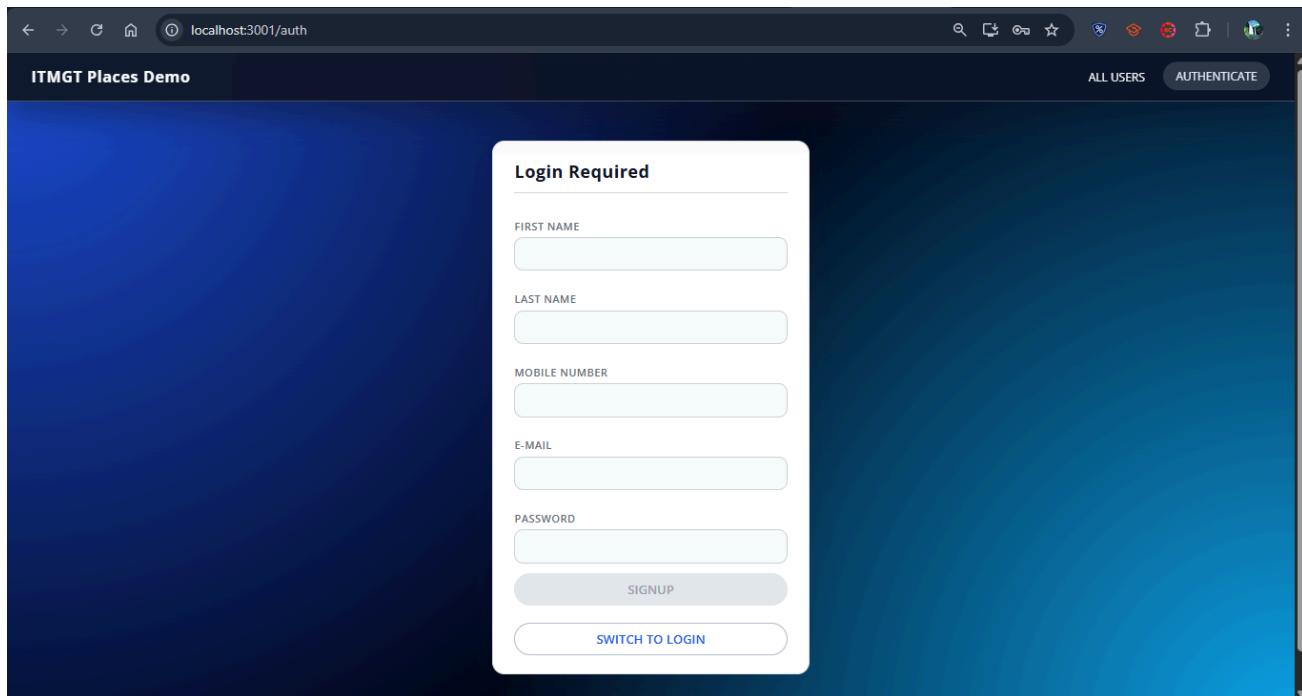
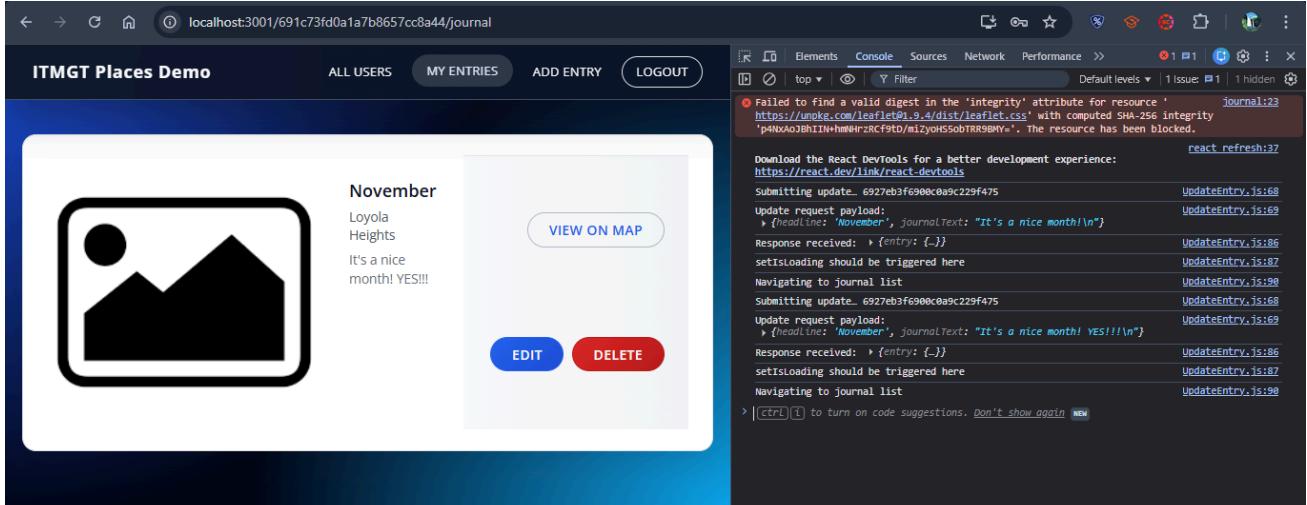


Updated Auth.js

Added extra boxes to the signup form for first name, last name, and phone number. These boxes only show up when someone chooses to sign up. The information entered is checked to make sure it's correct, saved temporarily, and then sent to the system when signing up. This helps the app use names to make it more personal instead of just using email.



Bug A – Infinite Spinner (Frontend)



The screenshot shows a web browser window with the URL `localhost:3001/691c73fd0a1a7b8657cc8a44/journal`. The page title is "ITMGT Places Demo". The main content area displays a journal entry for "November". The entry includes a placeholder image, the headline "November", the text "It's a nice month! YES!!!", and two buttons: "EDIT" and "DELETE". The browser's developer tools are open, showing the Network tab with several requests for "journalList" and "updateEntry" endpoints. The console tab shows multiple entries from "UpdateEntry.js" indicating successful updates and responses. The bottom of the browser window shows the terminal output of a Node.js application running the backend, displaying logs related to the database query and user login.

```
PS C:\Users\chels\Downloads\finals-1\backend> npm start
name: 'Chloe',
email: 'yahoo@yahoo.com',
password: 'testers1',
image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
places: [],
__v: 0
}
Login success for: yahoo@yahoo.com
Fetching entries for user: 691c73fd0a1a7b8657cc8a44
Database result: [
  {
    coordinates: { latitude: 14.6410904, longitude: 121.0737779 },
    _id: new ObjectId('6927eb3f6900c0a9c229f475'),
    headline: 'November',
    journalText: 'Nice month!\nIt\'s.\n',
    photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3hhfm2Fa7zZFgK0HQrDByvw5Bmm_Gw&s',
    locationName: 'Loyola Heights',
    author: '691c73fd0a1a7b8657cc8a44',
    __v: 0
  }
]
Does this userId match entry.author? true
Update successful for entry: 6927eb3f6900c0a9c229f475
Fetching entries for user: 691c73fd0a1a7b8657cc8a44
Database result: [
  {
    _id: new ObjectId('6927eb3f6900c0a9c229f475'),
    headline: 'November',
    __id: new ObjectId('6927eb3f6900c0a9c229f475'),
    __id2: '6927eb3f6900c0a9c229f475',
    headline: 'November',
    journalText: 'It\'s a nice month!\n',
    photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3hhfm2Fa7zZFgK0HQrDByvw5Bmm_Gw&s',
    locationName: 'Loyola Heights',
    author: '691c73fd0a1a7b8657cc8a44',
    __v: 0
  }
]
Does this userId match entry.author? true
Update successful for entry: 6927eb3f6900c0a9c229f475
Fetching entries for user: 691c73fd0a1a7b8657cc8a44
Database result: [
  {
    coordinates: { latitude: 14.6410904, longitude: 121.0737779 },
    _id: new ObjectId('6927eb3f6900c0a9c229f475'),
    headline: 'November',
    journalText: 'It\'s a nice month! YES!!!\n',
    photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3hhfm2Fa7zZFgK0HQrDByvw5Bmm_Gw&s',
    locationName: 'Loyola Heights',
    author: '691c73fd0a1a7b8657cc8a44',
    __v: 0
  }
]
Does this userId match entry.author? true
```

Network tab details:

Name	Status	Type	Initiator	Size	Time
images?q=ibn:ANd9GcSpPkm3Hfm2...	200	png	EntryItem.js:81	(memory ...)	0 ms
+ ws	101	websocket	react-refresh:37	(memory ...)	Pending
logo192.png	304	png	Other	0.4 kB	7 ms
login	200	preflight	Preflight@	0.0 kB	7 ms
login	200	fetch	http-hook:js:16	0.5 kB	53 ms
users	(cancelled)	fetch	http-hook:js:16	0.0 kB	2 ms
users	304	fetch	http-hook:js:16	0.4 kB	72 ms
e9931c5-647b-484d-9f13-48dc43a83...	304	text/html	react-dom-client.deve...	2.0 kB	10 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	3 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http-hook:js:16	0.4 kB	43 ms
6927eb3f69000a9c229f475	(cancelled)	fetch	http-hook:js:16	0.0 kB	7 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	38 ms
6927eb3f69000a9c229f475	200	preflight	Preflight@	0.0 kB	9 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	88 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	2 ms
691c73fd0a1a7b8657cc8a44	200	fetch	http-hook:js:16	0.8 kB	31 ms
images?q=ibn:ANd9GcSpPkm3Hfm2...	200	png	react-dom-client.deve...	(disk cache)	3 ms
6927eb3f69000a9c229f475	(cancelled)	fetch	http-hook:js:16	0.0 kB	11 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	39 ms
6927eb3f69000a9c229f475	200	preflight	Preflight@	0.0 kB	10 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	68 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	2 ms
691c73fd0a1a7b8657cc8a44	200	fetch	http-hook:js:16	0.8 kB	56 ms
images?q=ibn:ANd9GcSpPkm3Hfm2...	200	png	react-dom-client.deve...	(disk cache)	2 ms

Network tab details:

Name	Status	Type	Initiator	Size	Time
+ react.css	200	stylesheet	journal:35	(memory ...)	THIS
bundle.js	304	script	journal:35	0.3 kB	27 ms
css?family=Open+Sans@400,600,700&subset=latin,latin-ext	200	stylesheet	about:client:1	(memory ...)	1 ms
memvYgG5126MizpBA-UWwbX2vNx	200	font	css?family=Open+San...	(memory ...)	0 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	5 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http-hook:js:16	0.4 kB	74 ms
manifest.json	304	manifest	Other	0.4 kB	337 ms
favicon.ico	304	x-icon	Other	0.4 kB	20 ms
images?q=ibn:ANd9GcSpPkm3Hfm2...	200	png	EntryItem.js:81	(memory ...)	0 ms
+ ws	101	websocket	react-refresh:37	0.0 kB	Pending
logo192.png	304	png	Other	0.4 kB	7 ms
login	200	preflight	Preflight@	0.0 kB	7 ms
login	200	fetch	http-hook:js:16	0.5 kB	53 ms
users	(cancelled)	fetch	http-hook:js:16	0.0 kB	2 ms
users	304	fetch	http-hook:js:16	0.4 kB	72 ms
e9931c5-647b-484d-9f13-48dc43a83...	304	text/html	react-dom-client.deve...	2.0 kB	10 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	3 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http-hook:js:16	0.4 kB	43 ms
6927eb3f69000a9c229f475	(cancelled)	fetch	http-hook:js:16	0.0 kB	7 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	38 ms
6927eb3f69000a9c229f475	200	preflight	Preflight@	0.0 kB	9 ms
6927eb3f69000a9c229f475	200	fetch	http-hook:js:16	0.8 kB	88 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook:js:16	0.0 kB	2 ms
691c73fd0a1a7b8657cc8a44	200	fetch	http-hook:js:16	0.8 kB	31 ms
images?q=ibn:ANd9GcSpPkm3Hfm2...	200	png	react-dom-client.deve...	(disk cache)	3 ms

DevTools Evidence:

- Network tab showed a successful PATCH request with status 200.
- Console tab confirmed logs fired in correct order.

Bug:

- It's not properly or fails to connect to the backend or the route doesn't exist.

Fix:

- Added error logs to show if the backend request failed.

Bug B – Identity Crisis (Backend)

Correct credentials

The screenshot shows a browser window displaying the "ITMGT Places Demo" application. The main content area shows a user profile for "Chloe" with the title "Places". The developer tools are open on the right side, specifically the Network tab, which lists various network requests and their details. The requests include files like leaflet.css, bundle.js, and various API endpoints for users and places. The developer tools also show the status of each request, the type of resource (e.g., document, script, CSS), the initiator, size, and time taken.

```
PS C:\Users\chels\Downloads\finals-1\backend> npm start
  _v: 0
}
Password mismatch for: yahoo@yahoo.com
Request body received: { email: 'yahoo@yahoo.com', password: 'testers1' }
Login attempt for email: yahoo@yahoo.com
User query result:
  _id: new ObjectId('601c73fd0a1a7b0657cc8a44'),
  name: 'Chloe',
  email: 'yahoo@yahoo.com',
  password: 'testers1',
  image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
  places: [],
  __v: 0
}
Login success for: yahoo@yahoo.com
Request body received: { email: 'yahoo@yahoo.com', password: '123456' }
Login attempt for email: yahoo@yahoo.com
User query result:
  _id: new ObjectId('601c73fd0a1a7b0657cc8a44'),
  name: 'Chloe',
  email: 'yahoo@yahoo.com',
  password: 'testers1',
  image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
  places: [],
  __v: 0
}
Password mismatch for: yahoo@yahoo.com
Request body received: { email: 'yahoo@yahoo.com', password: 'testers1' }
Login attempt for email: yahoo@yahoo.com
User query result:
  _id: new ObjectId('601c73fd0a1a7b0657cc8a44'),
  name: 'Chloe',
  email: 'yahoo@yahoo.com',
  password: 'testers1',
  image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
  places: [],
  __v: 0
}
Login success for: yahoo@yahoo.com
Request body received: { email: 'yahoo@yahoo.com', password: 'testers1' }
Login attempt for email: yahoo@yahoo.com
User query result:
  _id: new ObjectId('601c73fd0a1a7b0657cc8a44'),
  name: 'Chloe',
  email: 'yahoo@yahoo.com',
  password: 'testers1',
  image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
  places: [],
  __v: 0
}
Login success for: yahoo@yahoo.com
[...]
```

Wrong credentials

The top screenshot shows a browser window for 'ITMGT Places Demo' at 'localhost:3001/auth'. It displays a 'Login Required' form with fields for 'E-MAIL' containing 'yahoo@yahoo.com' and 'PASSWORD' containing '.....'. Below the fields are 'LOGIN' and 'SWITCH TO SIGNUP' buttons. The bottom screenshot shows the same browser window with developer tools open. The Network tab is selected, showing a list of resources. One entry is a POST request to 'http://localhost:5005/api/users/login' with a status of 401 (Unauthorized). The console tab shows several error messages, including one about a blocked resource and another about a failed digest check.

Name	Status	Type	Initiator	Size	Time
auth	200	document	Other	1.4 kB	431 ms
leaflet.css	200	stylesheet	auth:23	(memory c...)	2 ms
bundle.js	304	script	auth:35	0.3 kB	41 ms
css?family=Open+Sans:400,600,700&di...	200	stylesheet	about:client:1	(memory c...)	0 ms
memvYg126MIZpBA-UWVbx2vNxBb...	200	font	css?family=Open+San...	(memory c...)	0 ms
manifest.json	304	manifest	Other	0.4 kB	344 ms
favicon.ico	304	x-icon	Other	0.4 kB	18 ms
* ws	101	websocket	react refresh:37	0.0 kB	Pending
logo192.png	304	png	Other	0.4 kB	8 ms
login	401	fetch	http://hook:js:16	0.5 kB	69 ms
	200	preflight	Preflight ⚡	0.0 kB	8 ms

DevTools Evidence:

- Network tab showed POST /api/users/login with correct payload and response.
- Console tab (backend) confirmed query result and login success.

Problem:

- Since we added first and last names, the "name" field (user.name) has changed. As a result, if a user has only a single name or is an old user, the app doesn't recognize them.

Fix:

- Added first name, last name, and mobile number to the signup constant; modified it to display either the old user's single name or full name.
- Identify users by their email or query match.
- Added log error togs to show if the request failed.

Bug C – Phantom List (Backend)

Fetch list of journals

The screenshot shows a code editor interface with the following details:

- File Path:** frontend > src > JS App.js > App > login > useCallback() callback
- Code Snippet:** A portion of the `useCallback` function in `App.js`. It imports various components and then defines a function that navigates to a "react-router-dom" page.
- Terminal Output:** The terminal tab shows the following output:
 - Login success for: yahoo@yahoo.com
 - Fetching entries for user: 691c73fd0a1a7b8657cc8a44
 - Database result: [(multiple entries listed below)]
- Database Results:** The terminal output lists three database entries, each containing coordinates, headline, journalText, photo URL, locationName, and author. The first entry is for November, the second for December, and the third for Months.
- Bottom Status Bar:** Shows the current branch as `master`, the commit hash as `cbonaga-stn` (3 hours ago), and other status indicators like line and column numbers (Ln 26, Col 1).

localhost:3001/691c73fd0a1a7b8657cc8a44/journal

ITMGT Places Demo

- ALL USERS
- MY ENTRIES
- ADD ENTRY
- LOGOUT

November



Loyola Heights
It's a nice month! YES!!!

[VIEW ON MAP](#)

[EDIT](#)

[DELETE](#)

December



Loyola Heights
Hello

[VIEW ON MAP](#)

[EDIT](#)

Network Performance

Name	Status	Type	Initiator	Size	Time
journal	304	document	Other	0.3 kB	363 ms
leaflet.css	200	stylesheet	journal23	(memory c...	1 ms
bundle.js	304	script	journal35	0.3 kB	50 ms
css?family=Open+Sans:400,600,700&dls...	200	stylesheet	about:client:1	(memory c...	2 ms
memvYaG126MIZp8A-UWbx2vNx0b...	200	font	css?family=Open+Sans	(memory c...	1 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook.js:16	0.0 kB	6 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http-hook.js:16	0.4 kB	69 ms
manifest.json	304	manifest	Other	0.4 kB	330 ms
images?q=tbn:ANd9GcsPkm3Hnfm2fa...	200	png	EntryItem.js:81	(memory c...	0 ms
z: ws	101	websocket	react-refresh:7	0.0 kB	Pending
logo192.png	304	png	Other	0.4 kB	6 ms
login	200	preflight	Preflight ↗	0.0 kB	9 ms
login	200	fetch	http-hook.js:16	0.5 kB	63 ms
users	(cancelled)	fetch	http-hook.js:16	0.0 kB	3 ms
users	304	fetch	http-hook.js:16	0.4 kB	56 ms
691c73fd0a1a7b8657cc8a44	304	text/html	react-dom-client.devel	2.0 kB	5 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http-hook.js:16	0.0 kB	3 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http-hook.js:16	0.4 kB	54 ms

18 requests | 4.9 kB transferred | 2.8 MB resources | Finish: 14.73 s | DOMContentLoaded: 666 ms | Load: 747 ms

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface with the following details:

- Terminal Tab:** The active tab is "TERMINAL".
- Code Editor:** The editor shows a file named "journal-controllers.js" with the following code snippet:

```
const createEntry = () => {
  const entry = {
    coordinates: { latitude: 14.6410904, longitude: 121.0737779 },
    _id: new ObjectId('6927f269845707defbd2b3c6'),
    headline: 'December',
    journalText: 'Hello',
    photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3Hfm2Fa7zZFgK0HQrD8ywS8mm_Gw&s',
    locationName: 'Loyola Heights',
    author: '691c73fd0a1a7b8657cc8a44',
    __v: 0
  }
  Does this userId match entry.author? true
  Request body received: { email: 'yahoc@yahoo.com', password: 'testers1' }
  Login attempt for email: yahoc@yahoo.com
  User query result: {
    _id: new ObjectId('691c73fd0a1a7b8657cc8a44'),
    name: 'Chloe',
    email: 'yahoc@yahoo.com',
    password: 'testers1',
    image: 'uploads\\images\\ef3931c5-647b-4a4d-9f13-48dc43a83bcf.png',
    places: [],
    __v: 0
  }
  Login success for: yahoc@yahoo.com
  Fetching entries for user: 691c73fd0a1a7b8657cc8a44
  Database result: [
    {
      coordinates: { latitude: 14.6410904, longitude: 121.0737779 },
      _id: new ObjectId('6927eb3f6900c0a9c229f475'),
      headline: 'November',
      journalText: 'It's a nice month! YES!!!\n',
      photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3Hfm2Fa7zZFgK0HQrD8ywS8mm_Gw&s',
      locationName: 'Loyola Heights',
      author: '691c73fd0a1a7b8657cc8a44',
      __v: 0
    },
    {
      coordinates: { latitude: 14.6410904, longitude: 121.0737779 },
      _id: new ObjectId('6927f269845707defbd2b3c6'),
      headline: 'December',
      journalText: 'Hello',
      photo: 'https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcSpPkm3Hfm2Fa7zZFgK0HQrD8ywS8mm_Gw&s',
      locationName: 'Loyola Heights',
      author: '691c73fd0a1a7b8657cc8a44',
      __v: 0
    }
  ]
  Does this userId match entry.author? true
```

- SIDE BAR:** The left sidebar includes sections for "REPOSITORIES" (showing "finals-1" with "master" branch) and "CHANGES" (listing commits such as "Fix: cbonaga-stn", "env changed", etc.).
- STATUS BAR:** The bottom status bar displays information like "cbonaga-stn (2 hours ago)", "Ln 108, Col 4", "JavaScript", and "Chat quota reached".

The screenshot shows a web application interface. At the top, there's a header with 'ITMGT Places Demo', 'ALL USERS', 'MY ENTRIES' (which is the active tab), 'ADD ENTRY', and 'LOGOUT'. Below the header, there are two entries listed:

- November**: Shows a placeholder image of a mountain and a moon. Below the image, the text reads "Loyola Heights" and "It's a nice month! YES!!!". It includes a "VIEW ON MAP" button, an "EDIT" button, and a "DELETE" button.
- December**: Shows a placeholder image of a mountain and a moon. Below the image, the text reads "Loyola Heights" and "Hello". It includes a "VIEW ON MAP" button, an "EDIT" button, and a "DELETE" button.

To the right of the application, the Chrome DevTools Network tab is open, displaying a list of network requests. The table has columns for Name, Status, Type, Initiator, Size, and Time. Key entries from the table include:

Name	Status	Type	Initiator	Size	Time
journal	304	document	Other	0.3 kB	318 ms
leaflet.css	200	stylesheet	journal23	(memory c...	0 ms
bundle.js	304	script	journal35	0.3 kB	21 ms
css?family=Open+Sans:400,600,700&cl...	200	stylesheet	about:client#1	(memory c...	0 ms
memvYaGst2bMIZpbA-UWbX2VnXbb...	200	font	css?family=Open+Sans	(memory c...	0 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http://hook.js:16	0.0 kB	4 ms
691c73fd0a1a7b8657cc8a44	200	fetch	http://hook.js:16	1.2 kB	61 ms
manifest.json	304	manifest	Other	0.4 kB	321 ms
favicon.ico	304	x-icon	Other	0.4 kB	7 ms
images?q=tbn:ANd9GcSpPkm3Hhfm2fa...	200	png	EntryItem.js:81	(memory c...	1 ms
* ws	101	websocket	react-refresh:7	0.0 kB	Pending
logo192.png	304	png	Other	0.4 kB	8 ms
login	200	preflight	Preflight④	0.0 kB	9 ms
login	200	fetch	http://hook.js:16	0.5 kB	69 ms
users	(cancelled)	fetch	http://hook.js:16	0.0 kB	3 ms
users	304	fetch	http://hook.js:16	0.4 kB	51 ms
e19351c5-647b-44d1-9f13-48d45a83b...	304	text/html	react-dom-client.devel	2.0 kB	6 ms
691c73fd0a1a7b8657cc8a44	(cancelled)	fetch	http://hook.js:16	0.0 kB	5 ms
691c73fd0a1a7b8657cc8a44	304	fetch	http://hook.js:16	0.4 kB	63 ms
images?q=tbn:ANd9GcSpPkm3Hhfm2fa...	200	png	react-dom-client.devel	(disk cache)	2 ms

At the bottom of the DevTools, it shows "20 requests | 6.1 kB transferred | 2.8 MB resources | Finish: 11.66 s | DOMContentLoaded: 469 ms | Load: 531 ms".

DevTools Evidence:

- Changes in the console and network.

Problem:

- Even if the list is empty, it still tries to look.
- It doesn't save changes.
- It doesn't actually delete entries.

Fix:

- return res.json({ entries: [] }); which return an empty array when no entries are found.
- await entry.save(); saves the changes to the database.
- await entry.deleteOne(); actually deletes the entry from the database.
- Added log error togs to show if the request failed.

AI Usage Note

Throughout the development and debugging of this project, I used Microsoft Copilot to assist me with identifying and resolving specific coding errors while still following the original instructions and requirements. It provided me step-by-step guide to:

- Diagnose bugs in both frontend and backend components
- Explain what each function is for and how it should work.

Most importantly, every change and correction was done with an understanding of what the code was supposed to do. It helped me write, improve, and check the code while keeping everything clear and easy to follow during the debugging.

Main prompt:

- “Please help me open the web.” – There were errors when I bashed the commands on the terminal.
- “I am supposed to debug a code with [symptom/s in the instructions]. Guide me in debugging it to make it work.”