

Asynchronous React in Next.js

```
PS C:\Users\saito\source\repos\React_Refreshes\6_Asyncronous_React_in_NextJs> npx create-next-app@latest
✔ What is your project named? ... async-react-project
✔ Would you like to use the recommended Next.js defaults? » No, customize settings
✔ Would you like to use TypeScript? ... No / Yes
✔ Which linter would you like to use? » None
✔ Would you like to use React Compiler? ... No / Yes
✔ Would you like to use Tailwind CSS? ... No / Yes
✔ Would you like your code inside a `src/` directory? ... No / Yes
✔ Would you like to use App Router? (recommended) ... No / Yes
? Would you like to customize the import alias (`@/*` by default)? » No / Yes
```

Fetch data from API

```
async function getData() {
  const res = await fetch("https://snowtooth-api-rest.fly.dev");
  if (!res.ok) {
    throw new Error('Failed to fetch lift status');
  }
  return res.json();
}
```

Snowtooth mountain	Mountain Info	Hotels	Contacts
[{"id":"astra-express","name":"Astra Express","status":"CLOSED","capacity":3,"night":false,"elevationGain":899,"trailAccess":[{"id":"blue-bird","name":"Blue Bird","status":"OPEN","difficulty":"intermediate","grounded":true,"trees":false,"night":false}],"ducks-revenge","name":"Duck's Revenge","status":"OPEN","difficulty":"intermediate","grounded":false,"trees":true,"night":false}],"id":"ducks-revenge","name":"Duck's Revenge","status":"OPEN","difficulty":"intermediate","grounded":false,"trees":true,"night":false}],"id":"paracuthe","name":"Paracuthe","status":"OPEN","difficulty":"intermediate","grounded":false,"trees":false,"night":false}],"id":"goosebumps","name":"Goosebumps","status":"OPEN","difficulty":"advanced","grounded":false,"trees":true,"night":false}]]],"id":"jazz-cat","name":"Jazz Cat","status":"OPEN","capacity":2,"night":false,"elevationGain":1230,"trailAccess":[{"id":"goosebumps","name":"Goosebumps","status":"OPEN","difficulty":"advanced","grounded":false,"trees":true,"night":false}],"id":"river-run","name":"River Run","status":"OPEN","difficulty":"intermediate","grounded":false,"trees":true,"night":false}],"id":"ducks-revenge","name":"Duck's Revenge","status":"OPEN","difficulty":"intermediate","grounded":false,"trees":true,"night":false}],"id":"cape-cod","name":"Cape Cod","status":"CLOSED","difficulty":"intermediate","grounded":false,"trees":true,"night":false}],"id":"grandma","name":"Grandma","status":"OPEN","difficulty":"expert","grounded":false,"trees":true,"night":false}],"id":"wild-child","name":"Wild Child","status":"CLOSED","difficulty":"advanced","grounded":false,"trees":false,"night":false}],"id":"old-witch","name":"Old Witch","status":"OPEN","difficulty":"expert","grounded":false,"trees":true,"night":false}],"id":"jolly-rogue","name":"Jolly Roger","status":"OPEN","capacity":6,"night":true,"elevationGain":1350,"trailAccess":[{"id":"dance-fight","name":"Dance Fight","status":"OPEN","difficulty":"beginner","grounded":true,"trees":false,"night":true}],"id":"sneaky-peep","name":"Sneaky Peep","status":"OPEN","difficulty":"beginner","grounded":true,"trees":false,"night":true}],"id":"bear-cave","name":"Bear Cave","status":"OPEN","difficulty":"intermediate","grounded":true,"trees":false,"night":true}],"id":"humpty-dumpty","name":"Humpty Dumpty","status":"CLOSED","difficulty":"intermediate","grounded":false,"trees":false,"night":false}],"id":"meathall","name":"Meathall","status":"OPEN","difficulty":"beginner","grounded":true,"trees":false,"night":true}],"id":"early-riser","name":"Early Riser","status":"CLOSED","difficulty":"intermediate","grounded":true,"trees":false,"night":true}]]],"id":"sued","name":"Sued","status":"OPEN","difficulty":"intermediate","grounded":true,"trees":false,"night":true}]]],"id":"beach-house","name":"Beach House"}]			

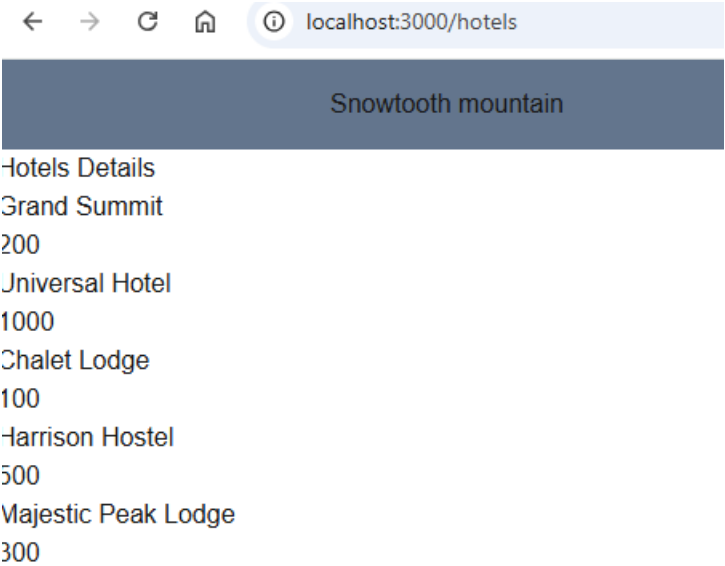
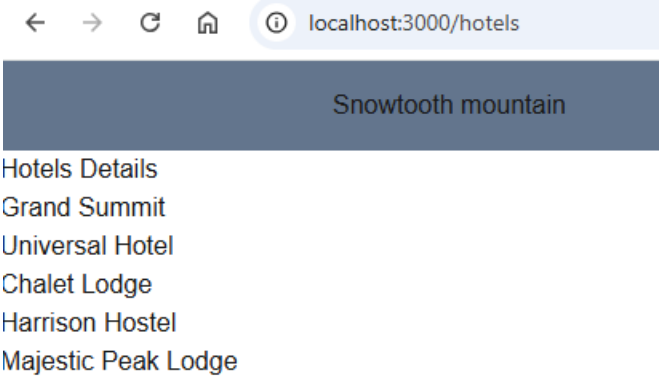
Snowtooth mountain	
Lift Status Info	
Lift Name	Status
Astra Express	CLOSED
Jazz Cat	OPEN
Jolly Roger	OPEN
Neptune Rope	OPEN
Panorama	HOLD
Prickly Peak	OPEN
Snowtooth Express	OPEN
Summit	CLOSED
Wally's	HOLD
Western States	CLOSED
Whirlybird	HOLD

Modified Hotels



Hotels Details

```
{
  "id": "01",
  "name": "Grand Summit",
  "capacity": 200,
  "pool": true,
  "spa": false,
  "avgCost": 1000,
  "skiln": true,
  "id": "02",
  "name": "Universal Hotel",
  "capacity": 1000,
  "pool": false,
  "spa": false,
  "avgCost": 250,
  "skiln": false,
  "id": "04",
  "name": "Harrison Hostel",
  "capacity": 500,
  "pool": false,
  "spa": false,
  "avgCost": 1000,
  "skiln": true
}
```

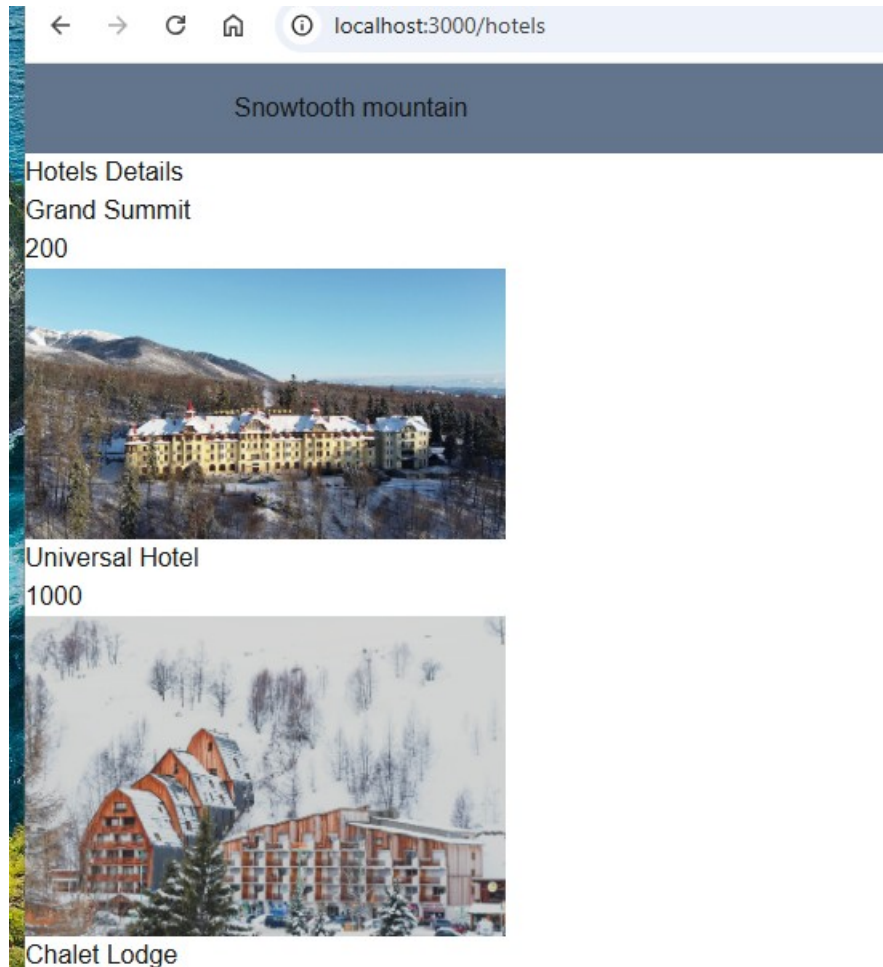


Display Client details using Client Component

Creating a Client component

Our HotelBlock is the Client component

Client component



Building a form

Typically we create the containers where the data would go then wire them, so everything works

Server actions are functions that can be executed on the server. These can be called from server components or client components to handle things like form submissions and other types of data mutations. We are going to put everything into the same file inside “contact” folder.

```
async function submitForm(formData) {
```

```
  “use server”; // directive it is a server-side function that can be called from client-side code
```

```
}
```



Contact us!

Email

abc@microsoft.com

Message

Have we successfully built a server action?

Send Message

we see in the server console

```
✓ Compiled in 545ms
GET /contact 200 in 2.9s (compile: 2.0s, render: 893ms)
formFields {
  email: 'abc@microsoft.com',
  message: 'Have we successfully built a server action?'
}
TODO: send these form field values to a backend service
POST /contact 200 in 14ms (compile: 4ms, render: 10ms)
```

Next steps:

Next.js data storage – learning to store data in databases, Rest API, GraphQL APIs

React server components

Caching

Look into <https://nextjs.org/docs> for all these things mentioned above