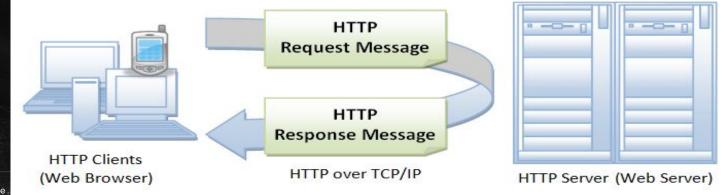
Explaining the HTTP-Request-Response Cycle

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What is HTTP?

- Hypertext Transfer Protocol
 - Defines how messages are defined and formatted between a server and a client
 - Is stateless
 - Each request is independent
- Key Terms
 - Client: The app making the request
 - Server: The system that processes the request and returns a response
 - Request: A message sent by the client, usually asking for data
 - Response: The reply from the server with data or status codes
- Cycle:
 - Client → HTTP Request → Server → HTTP Response → Client



HTTP Request

1 Method - GET, POST, PUT, DELETE → Get Request

2 Endpoint - Route on server your targeting → "api/WorkoutLogger/GetWorkout"

- 3 Body (if POST or PUT, etc) The actual data being sent → WorkoutName, etc
- Format "PostAsJsonAsync" → Sends it as JSON which our ASP.NET can deserialize into a Workout Object

Constructing the HTTP Request

```
async Task LoadWorkouts()
{
    workouts = await Http.GetFromJsonAsync<List<Workout>>("api/WorkoutLogger/GetWorkout");
}
```



HTTP Response

Endpoint

This endpoint will return all saved workouts each with a list of their own exercises

Data Returned

Returning a workout with a list of exercises, using a DTO to specifically interact with our front end to bind with our razor components