# Installations Required

* Sudo npm cookies install

# Middleware

* Connects the application to the operating system

# Getting ES6 to work with Node.Js

* In workplace settings:
* {
* "jshint.options": {"esversion": 6}
* }

# Post Request

* Insert Data
* Parameters in the body
* Update existing data
* the POST request method requests that a web server accepts the data enclosed in the body of the request message, most likely for storing it.

# Get Request

* Retrieve Data

# Require()

* not part of the standard JavaScript API, but in Node.Js
* built-in function to load modules
* Modules are a way to split an application into separate files instead of having all of your application in one file

# Servers

* providers of a resource or service

# Clients

* service or resource requesters
* does not share any of its resources

# URI

* URI = uniform resource identifier
* URI can be a name, locator, or both for an online resource

# URL

* URL = uniform resource locator
* URL is just the locator
* URLs are a subset of URIs

# Routing

* determining how an application responds to a client request to a particular endpoint, which is a URI (or path) and a specific HTTP request method (GET, POST, and so on).
* Each route can have one or more handler functions, which are executed when the route is matched.

# Sessions

* A user’s time browsing the application
* HTTP is stateless, so does not recognize individual user’s browsing the application
* (Dark Bank Analogy, teller has no way of recognizing you)
* Impossible to tell when a user leaves the site, usually just use a timeout period after each click
* With session IDs, or cookies, we are able to store data specific to the user
* Cookies must be encrypted to

# Gatsby Web Development

* **HTML**: A markup language that every web browser is able to understand. It stands for HyperText Markup Language. HTML gives your web content a universal informational structure, defining things like headings, paragraphs, and more.
* **CSS**: A presentational language used to style the appearance of your web content (fonts, colors, layout, etc). It stands for Cascading Style Sheets.
* **JavaScript**: A programming language that helps us make the web dynamic and interactive.
* **React**: A code library (built with JavaScript) for building user interfaces. It’s the framework that Gatsby uses to build pages and structure content.
* **GraphQL**: A query language that allows you to pull data into your website. It’s the interface that Gatsby uses for managing site data.

## Commands

**New**

* creates a new Gatsby project
* Gatsby new example\_title “github.com/Gatsby/examplepages”

# HTML