

A simple HTTP server

Node HTTP module

const http = require('http'); const server = http.createServer((request, response) => { response.writeHead(200, { 'Content-Type': 'text/plain' }); response.end("Don't Panic"); }).listen(5042); console.log('Listening on port %d', server.address().port);

In action: \$ curl <u>http://localhost:5042/</u> Don't Panic





Aspect-oriented Programming (AOP)

- Design pattern for implementing "crosscutting" concerns Middleware is an example of AOP
- "Cross cutting" concerns are those that affect many parts (or concerns) of the code Many requests require body parsing
- AOP is a general set of techniques for DRYing up "cross cutting" concerns



Film model (M in MVC)

Film "resource" is a simple JavaScript object

Good enough for now, but what about?

- Validate user rating is 0-5? Can't trust the client!
- Express associations between models
- Support different persistence layers (e.g. databases)

We can use ORMs and other libraries to provide this "cross cutting" functionality The models are typically the RESTful resources

Route		Controller Action
POST	/api/films	Create new film from request data
GET	/api/films/:id	Read data of film with id == :id
PUT	/api/films/:id	Update film with id == :id from request data
DELET	E /api/films/:id	Delete film with id == :id
GET	Vapi/films	List (read) all films
	A single mo	odel: Film

llsor		Film	
Responsibility	Collaborator	Responsibility	Collaborator
Knows user's name		Knows its title	
		Knows its plot overview	
Knows films I rated	Rating		
		Know which genres it is	Genre
Rating	g	"many to many"	"haa many
Responsibility	Collaborator		
Knows rating		Genre	
Knows its owner	User	Responsibility	Collaborator
Knows its film	Film	Knows its descriptor	

CRCs and user stories

Independently rate a film As a user I want to rate a film So that I can save my opinions of films Show average ratings As a user I want to view average ratings of a film So that I can know if it is a good film