# Saving Data



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## **Touch Points**



- Michelangelo Buonarroti via Wikimedia Commons https://www.flickr.com/photos/34409164@N06/4277702120

- Retrieving Data
- Filtering, Shaping, Querying Data

Saving Data

**Error Handling** 

**User Authentication** 

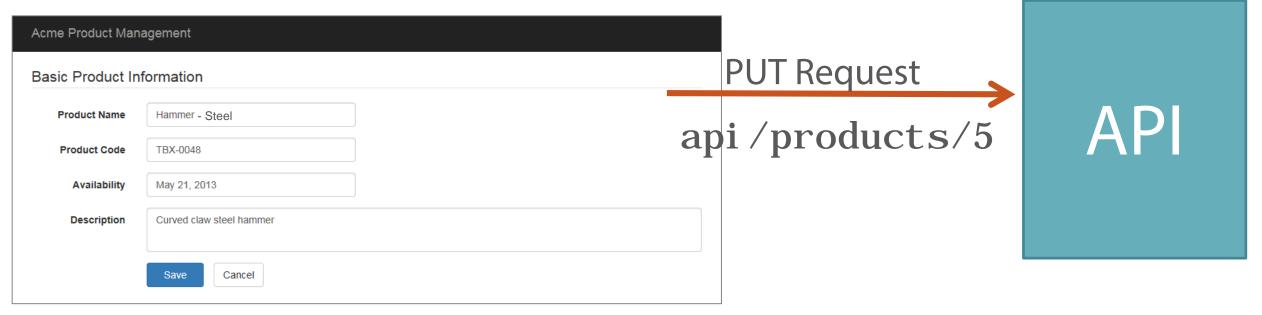
**User Authorization** 

# Updating an Item



```
"Description": "Curved claw steel hammer",
"Price": 8.99,
"ProductCode": "TBX-0048",
"ProductId": 5,
"ProductName": "Hammer",
"ReleaseDate": "2013-05-21T00:00:00-07:00"
```

# Updating an Item



```
"Description": "Curved claw steel hammer",
"Price": 8.99,
"ProductCode": "TBX-0048",
"ProductId": 5,
"ProductName": "Hammer-Steel",
"ReleaseDate": "2013-05-21T00:00:00-07:00"
}
```

# Creating an Item



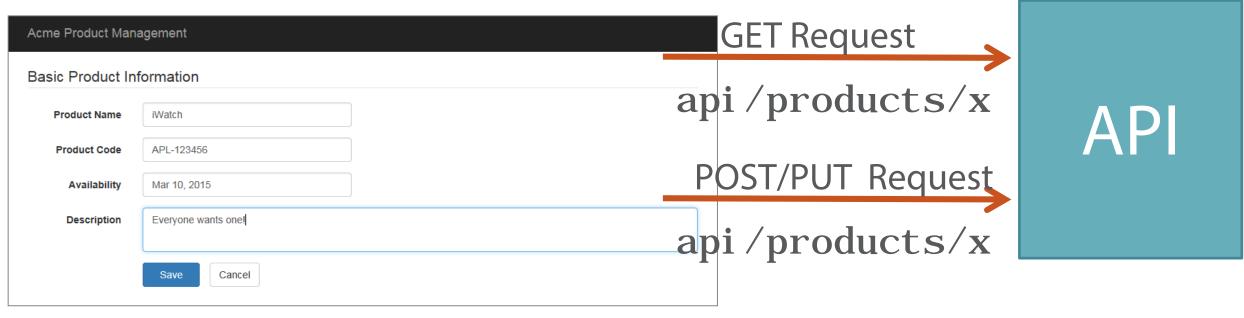
```
    "Description": null,
    "Price": 0.0,
    "ProductCode": null,
    "ProductId": 0,
    "ProductName": null,
    "ReleaseDate": "2015-03-10T16:39:53.8325775-07:00"
}
```

# Creating an Item

Acme Product Management  Basic Product Information		POST Request		
Product Name Product Code	iWatch  APL-123456	api/products		API
Availability  Description	Mar 10, 2015  Everyone wants one!			
	Save		'	

```
"Description": "Everyone wants one!",
    "Price": 0.0,
    "ProductCode": "APL-123456",
    "ProductId": 11,
    "ProductName": "iWatch",
    "ReleaseDate": "2015-03-10T16:55:08.535279-07:00"
}
```

# Creating or Updating an Item



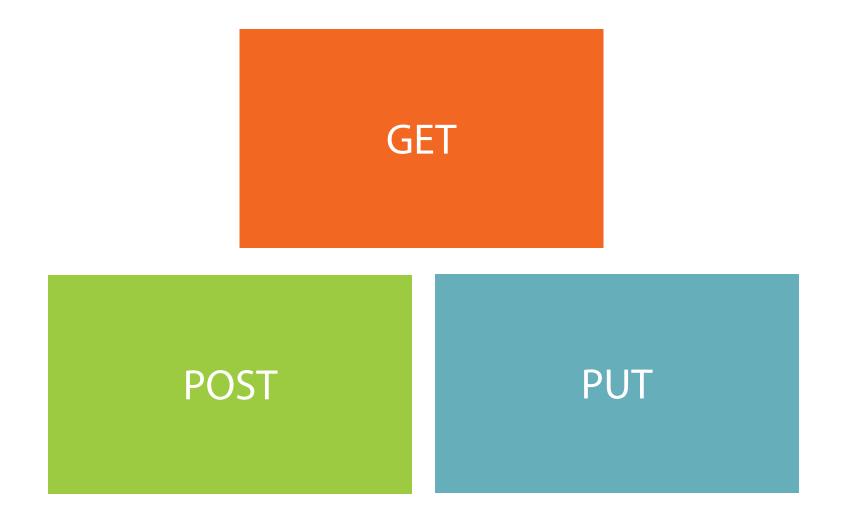
## Module Objectives

Building the Web API Service Methods

Building an Angular Edit Page

Calling the Web API to Save the Data

## Web API Service Methods for a Save



### Web API Save Methods

#### POST (api/products)

- Posts data for a resource or set of resources
- Used to:
  - Create a new resource when the server assigns the Id
  - Update a set of resources
- Not idempotent

#### PUT (api/products/5)

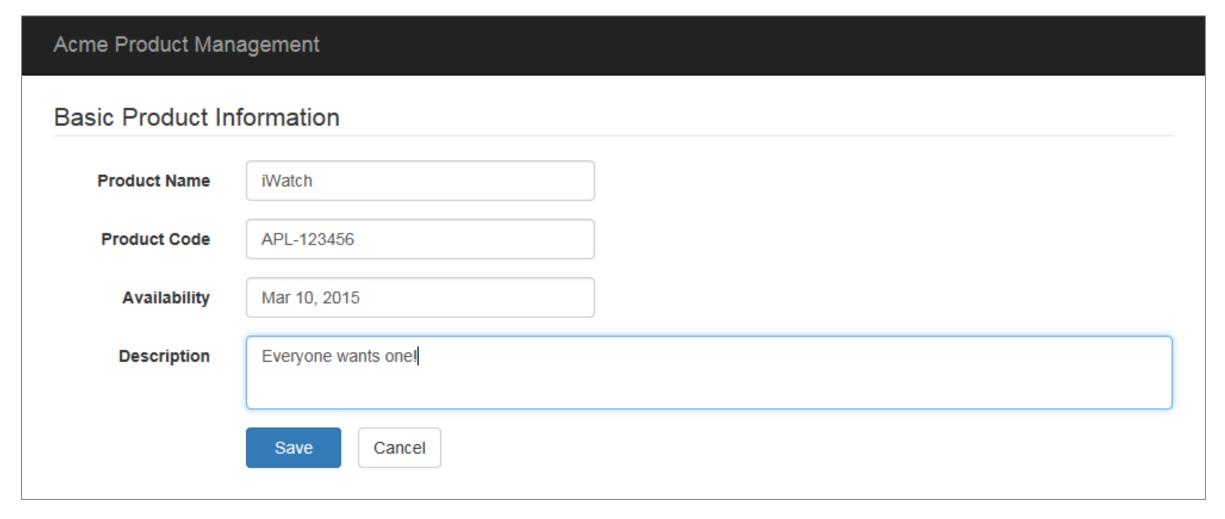
- Puts data for a specific resource with an Id
- Used to:
  - Create a new resource when the client assigns the ld
  - Update the resource with the Id
- Idempotent

# Building a (Simple) Angular Edit Page

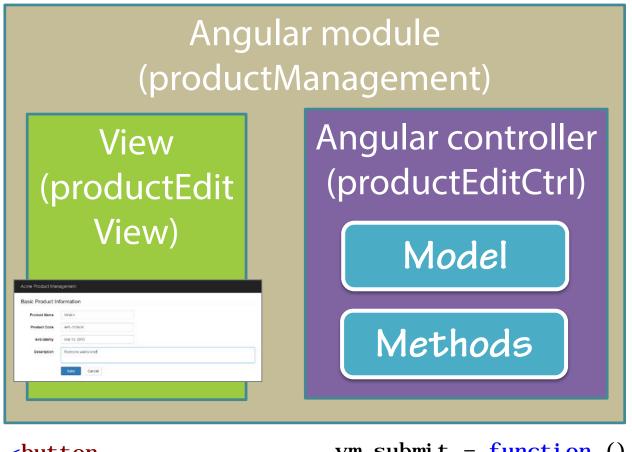
- Create a new HTML template
- Build the associated controller
- Modify index.html

Acme Product Management					
Basic Product In	formation				
Product Name	iWatch				
Product Code	APL-123456				
Availability	Mar 10, 2015				
Description	Everyone wants one!				
	Save Cancel				

# Calling the Web API to Save the Data



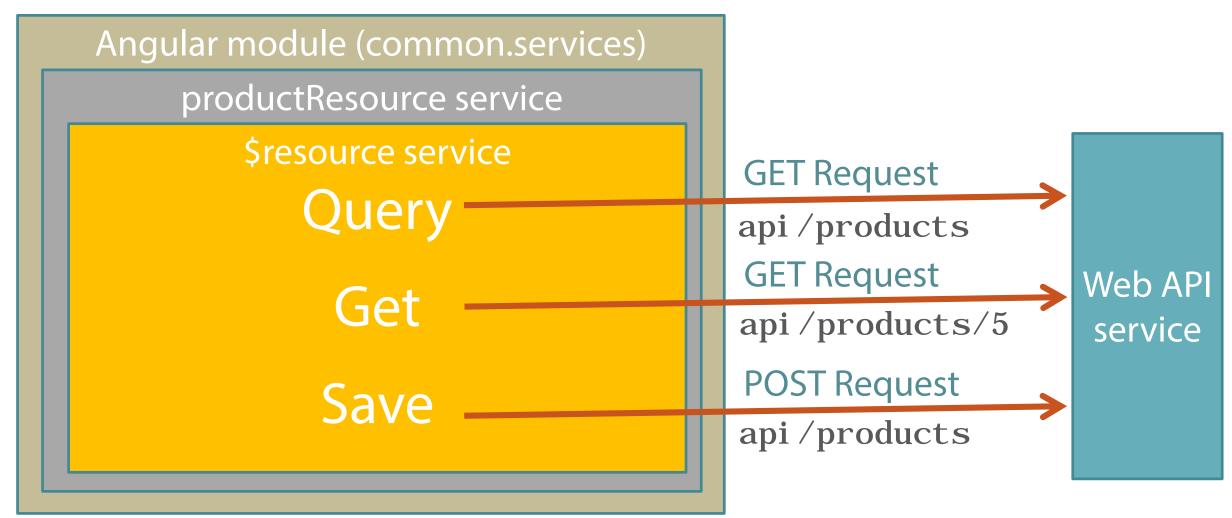
# Calling a Web API to Save Data



```
Angular module
(common.services)
 Custom Angular
     service
(productResource)
     Built in
   $resource
     service
```

Web API service

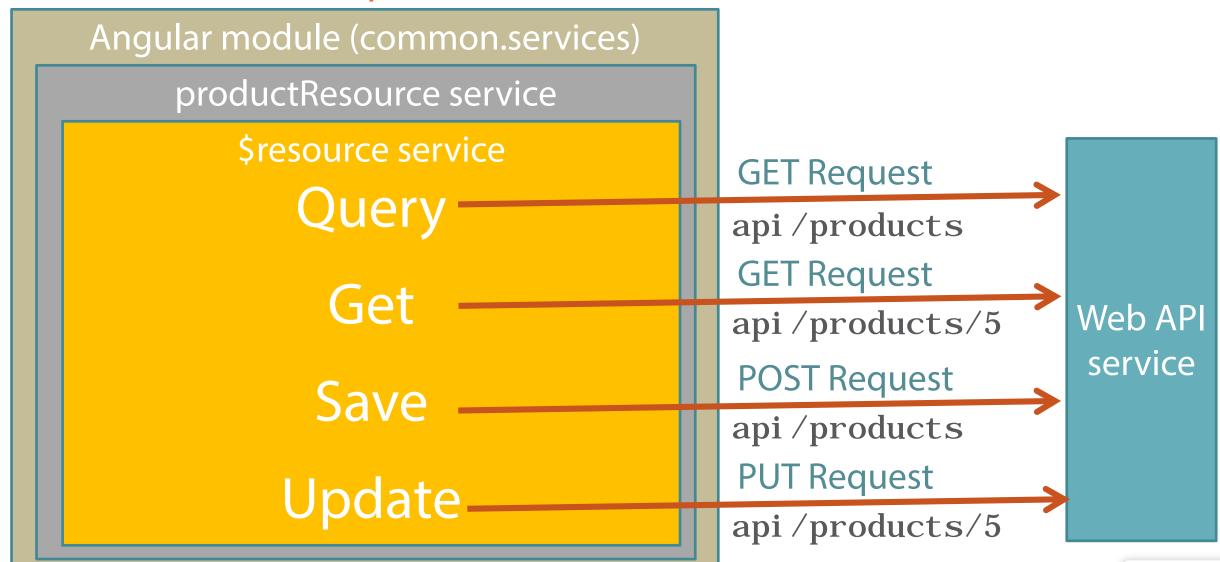
## Built-In \$resource Methods



Creating a Custom \$resource Method

Creating a Custom \$resource Method

## \$resource Methods



## This Module Covered



### Building the Web API Service

- GET, POST, PUT

Building an Angular Edit Page

Calling the Web API to Save the Data

- Query, Get, Save, Update

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