

INTRODUKTION TILL ANGULAR JS

DEL 2

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ROOT SCOPE

```
<div ng-app="myApp">
  <h1>{{siteName}}</h1>
</div>
<script>
  var app = angular.module('myApp', []);
  app.run(function ($rootScope) {
    $rootScope.siteName = 'Nackademin';
  });
</script>
```

\$ROOTSCOPE VS \$SCOPE

```
<body ng-app="myApp">
  <h1>{{siteName}}</h1>
  <h1 ng-controller="siteCtrl">{{siteName}}</h1>
  <script>
    var app = angular.module('myApp', []);
    app.run(function ($rootScope) {
      $rootScope.siteName = 'Nackademin';
    });
    app.controller('siteCtrl', function ($scope) {
      $scope.siteName = "Web Academy";
    });
  </script>
</body>
```

FORMULÄRVALIDERING – INTRODUKTION

```
<form ng-app name="myForm">  
  <input name="name" ng-model="name" required >  
</form>
```

```
<h1> $valid:    {{myForm.name.$valid}}</h1>
```

```
<h1> $invalid:  {{myForm.name.$invalid}}</h1>
```

```
<h1> $error:    {{myForm.name.$error}}</h1>
```

```
<h1> $pristine:{{myForm.name.$pristine}}</h1>
```

```
<h1> $dirty:    {{myForm.name.$dirty}}</h1>
```

<https://docs.angularjs.org/api/ng/type/form.FormController>

FORMULÄRVALIDERING — EXEMPEL 2

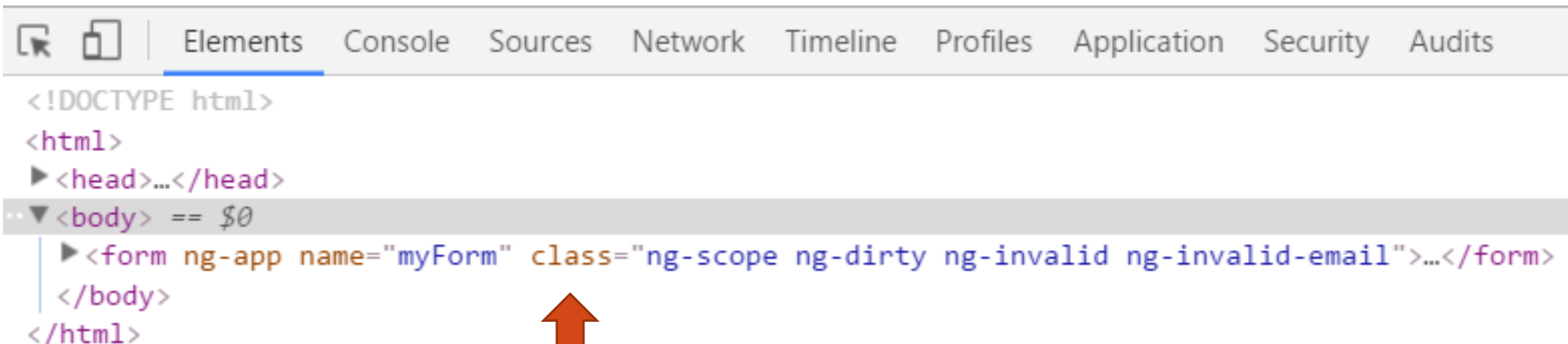
```
<form ng-app name="myForm">
```

```
  Email:<input type="email" name="myAddress" ng-model="text">
```

```
  <span ng-show="myForm.myAddress.$error.email">Not a valid e-mail address</span>
```

```
</form>
```

Email: Not a valid e-mail address



The screenshot shows the browser's developer tools interface. The 'Elements' tab is active, displaying the DOM tree. The root element is the body, which contains a form element. The form element is highlighted in grey, and its class attribute is expanded to show the following classes: 'ng-scope', 'ng-dirty', 'ng-invalid', and 'ng-invalid-email'. An orange arrow points upwards from the bottom of the image towards the 'ng-invalid-email' class in the DOM tree.

```
<!DOCTYPE html>  
<html>  
  <head>...</head>  
  <body> == $0  
    <form ng-app name="myForm" class="ng-scope ng-dirty ng-invalid ng-invalid-email">...</form>  
  </body>  
</html>
```

FORMULÄRVALIDERING OCH CSS

```
<style>
```

```
    input.ng-invalid-email {background-color: #fbae8d; }
```

```
    input.ng-valid-email   {background-color: #d7edd7; }
```

```
    input.ng-empty         {background-color: #f1f1b7; }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<form ng-app name="myForm">
```

```
    Email: <input type="email" name="myAddress" ng-model="text" required >
```

```
    <span ng-show="myForm.myAddress.$error.email">Not a valid e-mail address</span>
```

```
</form>
```

Tips <https://docs.angularjs.org/api/ng/directive/form>

http://www.w3schools.com/angular/angular_validation.asp

ANGULAR SERVICES

En Angular-service är en funktion eller objekt som vi kan använda i våra applikationer.

Angular har flera inbyggda tjänster t.ex.

\$location

\$interval

\$http

Hela listan finns här

<https://docs.angularjs.org/api/ng/service>

ANGULAR SERVICES — \$LOCATION

```
<div ng-app="myApp" ng-controller="myCtrl">
  <h3>{{myUrl}}</h3>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $location) {
  $scope.myUrl = $location.absUrl();
});
</script>
```

Läs mer: [https://docs.angularjs.org/api/ng/service/\\$location](https://docs.angularjs.org/api/ng/service/$location)

ANGULAR SERVICES — \$INTERVAL

```
<div ng-app="myApp" ng-controller="myCtrl">
    <h1>{{theTime}}</h1>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('myCtrl', function($scope, $interval) {
    $scope.theTime = new Date().toLocaleTimeString();
    $interval(function () {
        $scope.theTime = new Date().toLocaleTimeString();}, 1000);
});
</script>
```

ANGULAR SERVICES – \$HTTP (LÄS FRÅN EN JSON-FIL)

```
<div ng-app="myApp" ng-controller="customersCtrl">
  <ul><li ng-repeat="x in myData">
    {{ x.Name + ', ' + x.Country }}
  </li></ul>
</div>
<script>
var app = angular.module('myApp', []);
app.controller('customersCtrl', function($scope, $http) {
  $http.get("customers.json").then(function (response) {
    $scope.myData = response.data.customers;
  });
});
</script>
```

OBS! Funkar inte i
Chrome om du kör lokalt

```
{
  "customers": [
    {
      "Name": "Mahmud Al Hakim",
      "City": "Stockholm",
      "Country": "Sweden"
    },
    {
      "Name": "Kalle Anka",
      "City": "Disney",
      "Country": "USA"
    }
  ]
}
```

VISA EN DROPPDOWN-LISTA

```
<div ng-app="myApp" ng-controller="customersCtrl">
  <select ng-model="selectedCustomer">
    <option ng-repeat="x in myData">
      {{x.Name}}
    </option>
  </select>
  <h1>Hej {{selectedCustomer}}</h1>
</div>
```

SKAPA DROPDOWN MED NG-OPTIONS

OBS! VIKTIGT OM DU VILL ARBETA MED OBJEKT

```
<div ng-app="myApp" ng-controller="customersCtrl">
  <select ng-model="selectedCustomer"
          ng-options="x.Name for x in myData">
  </select>
  <h1>Hej {{selectedCustomer.Name}}</h1>
  <p>Du bor i {{selectedCustomer.City}}</p>
</div>
```

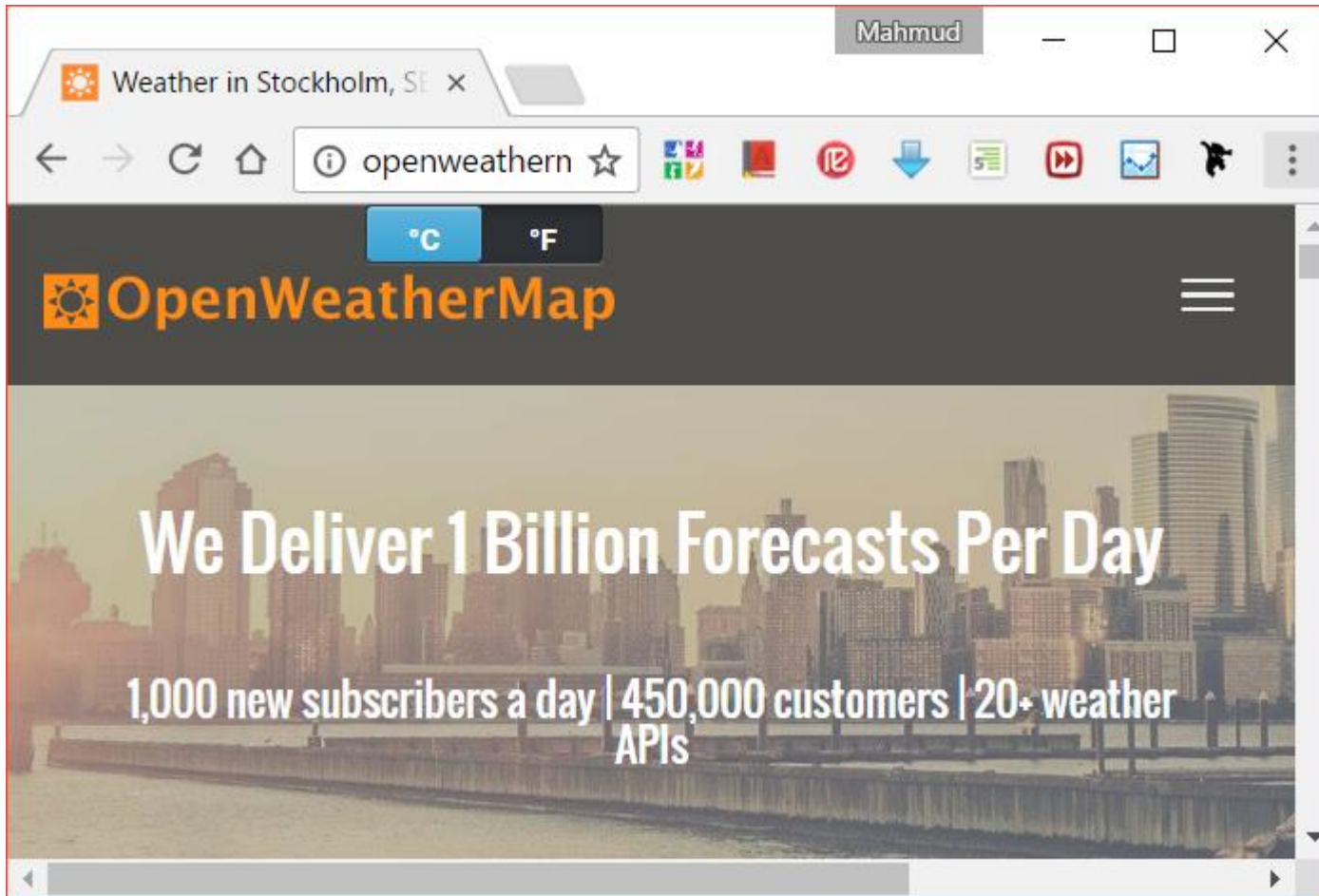
Tips! Vill du inte visa en tom rad högst upp i listan?

Lägg till denna sats i din kontroll

```
$scope.selectedCustomer = $scope.myData[0];
```

HÄMTA DATA VIA WEB API

EXEMPEL [HTTP://OPENWEATHERMAP.ORG](http://openweathermap.org)

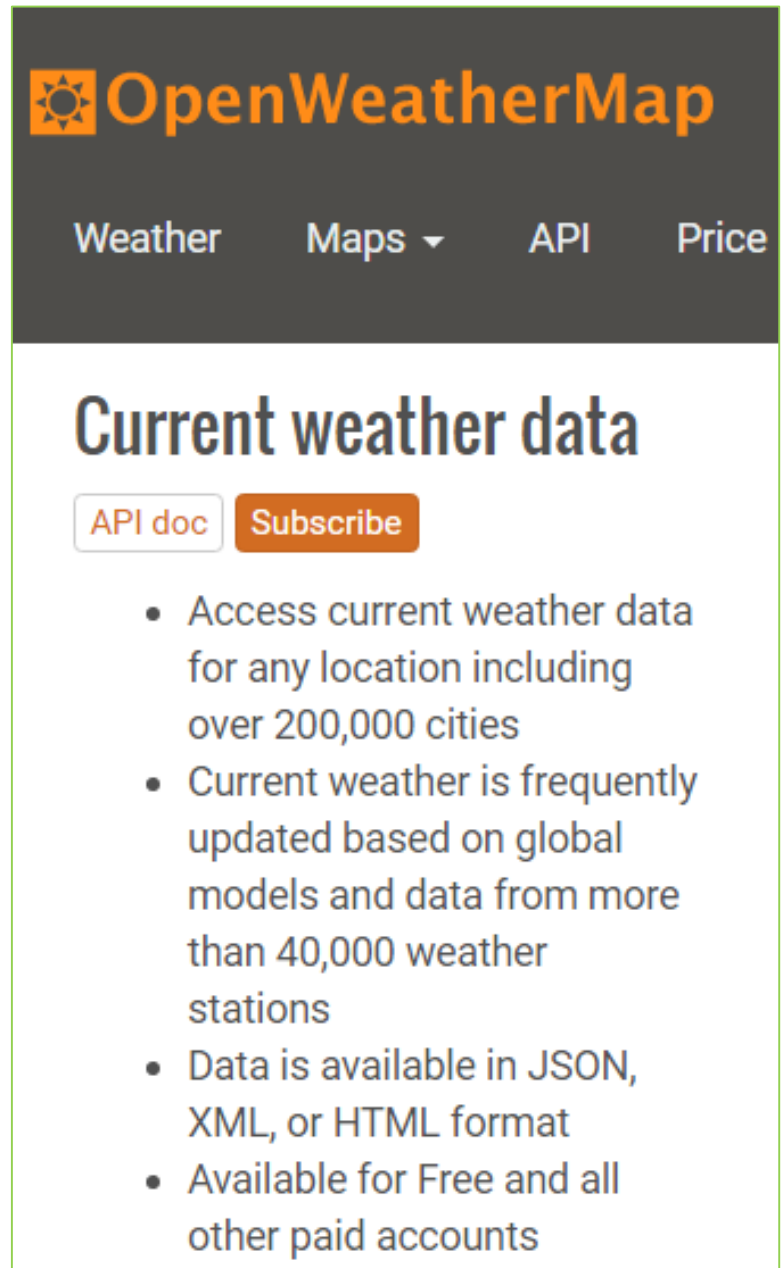


[HTTP://OPENWEATHERMAP.ORG/API](http://openweathermap.org/api)

1. Skaffa ett konto och skapa en egen API-Key
https://home.openweathermap.org/api_keys
2. Skapa en API-Call
<http://openweathermap.org/current>

Exempel

<http://api.openweathermap.org/data/2.5/forecast/city?q=Stockholm,SE&APPID=xxxxxxxxxxxxxx>



The screenshot shows the OpenWeatherMap website. At the top, there is a navigation bar with the logo and the text "OpenWeatherMap". Below the logo, there are four menu items: "Weather", "Maps", "API", and "Price". The "API" item is highlighted. Below the navigation bar, the main content area is titled "Current weather data". There are two buttons: "API doc" and "Subscribe". Below the buttons, there is a list of bullet points describing the API's features.

OpenWeatherMap

Weather Maps API Price

Current weather data

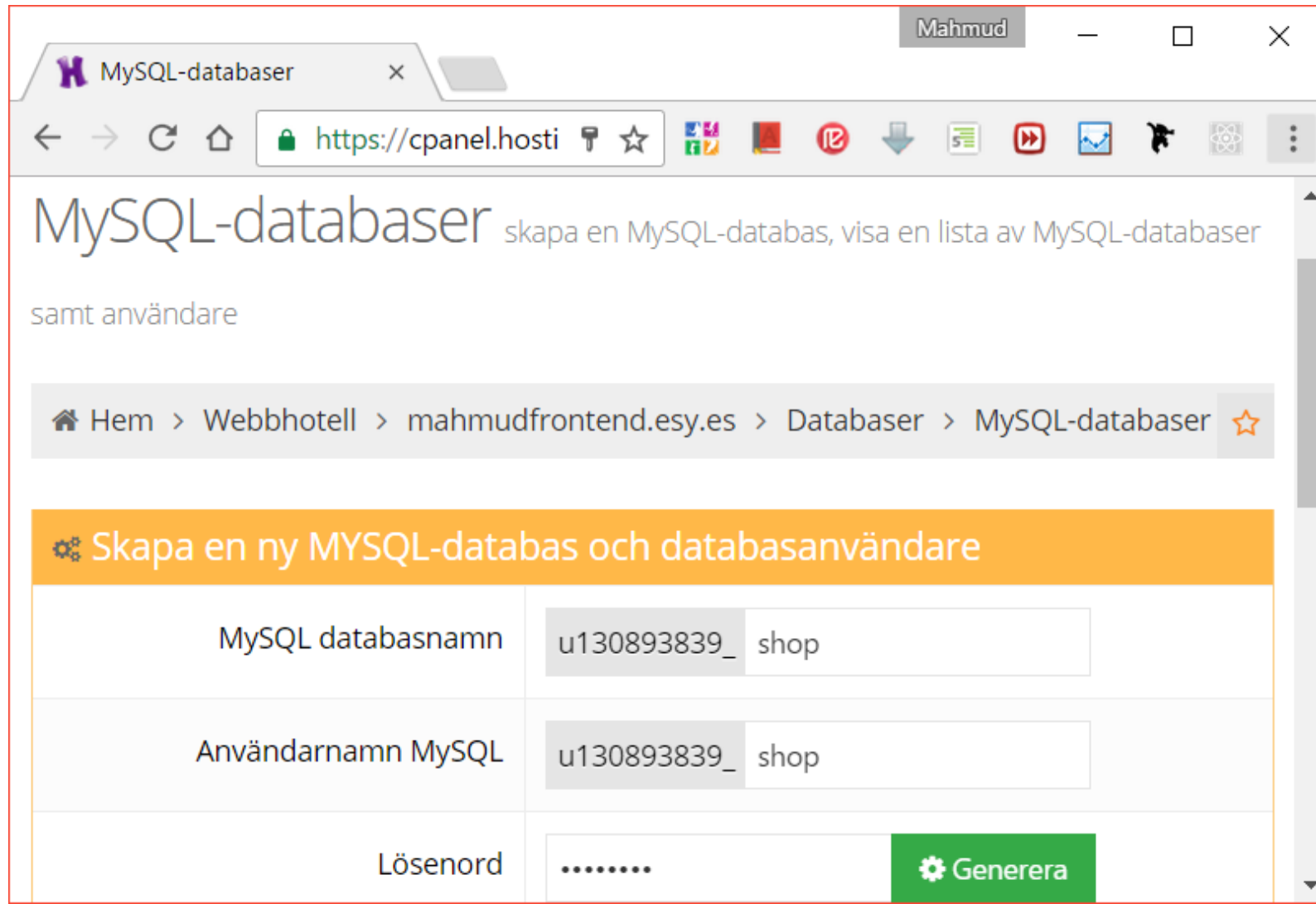
[API doc](#) [Subscribe](#)

- Access current weather data for any location including over 200,000 cities
- Current weather is frequently updated based on global models and data from more than 40,000 weather stations
- Data is available in JSON, XML, or HTML format
- Available for Free and all other paid accounts

HÄMTA TEMPERATUR VIA OPENWEATHERMAP.ORG

```
<div ng-app="myApp" ng-controller="weatherCtrl">
  {{weather - 273.15 | number:0}}&deg;C
</div>
<script>
  var app = angular.module('myApp', []);
  app.controller('weatherCtrl', function($scope, $http) {
    $http.get("http://api.openweathermap.org/data/2.5/forecast")
      .then(function (response) {
        $scope.weather = response.data.list[0].main.temp;
      });
  });
</script>
```

SKAPA EN MYSQL-DATABAS VIA HOSTINGER



The screenshot shows a web browser window with the URL `https://cpanel.hosti`. The page title is "MySQL-databaser" and the subtitle is "skapa en MySQL-databas, visa en lista av MySQL-databaser samt användare". The breadcrumb navigation is "Hem > Webbhotell > mahmudfrontend.esy.es > Databaser > MySQL-databaser".

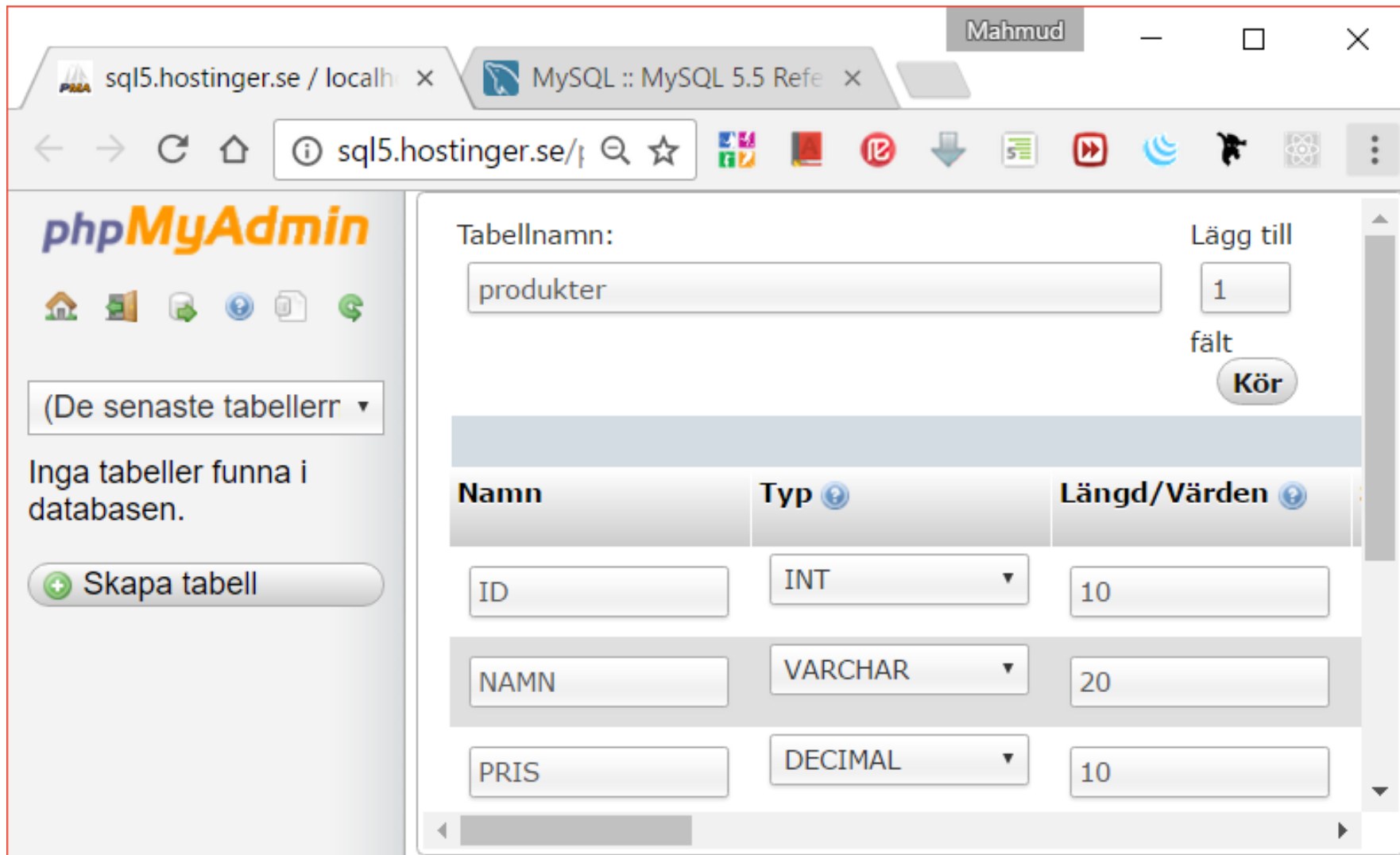
The main heading is "Skapa en ny MYSQL-databas och databasanvändare". Below it is a form with the following fields:

MySQL databasnamn	<input type="text" value="u130893839_ shop"/>
Användarnamn MySQL	<input type="text" value="u130893839_ shop"/>
Lösenord	<input type="password" value="....."/> <input type="button" value="Generera"/>

ARBETA MED DATABASEN VIA PHPMYADMIN

The screenshot shows a web browser window with the URL `sql5.hostinger.se / localh`. The browser's address bar shows `sql5.hostinger.se/|`. The phpMyAdmin interface is displayed, with the database name `localhost » u130893839_shop` shown in the top navigation bar. The main content area displays the message "Det finns inga tabeller i databasen" (There are no tables in the database). A dialog box titled "Skapa tabell" (Create Table) is open, allowing the user to create a new table. The "Namn:" (Name) field contains the text "produkter", and the "Antal kolumner:" (Number of columns) field contains the number "3". A "Kör" (Run) button is visible at the bottom right of the dialog box. The left sidebar of phpMyAdmin shows the "phpMyAdmin" logo, navigation icons, and a message: "Inga tabeller funna i databasen." (No tables found in the database.) Below this message is a "Skapa tabell" (Create Table) button.

SKAPA EN TABELL



The screenshot shows the phpMyAdmin interface in a browser window. The browser tabs include 'sql5.hostinger.se / localh...' and 'MySQL :: MySQL 5.5 Refe...'. The address bar shows 'sql5.hostinger.se/'. The phpMyAdmin logo is visible in the top left. The main content area is titled 'Tabellnamn:' and shows the table name 'produkter' in a text input field. To the right, there is a 'Lägg till' section with a '1' in a text input field and a 'fält' label, and a 'Kör' button. Below this is a table with three columns: 'Namn', 'Typ', and 'Längd/Värden'. The table contains three rows of data:

Namn	Typ	Längd/Värden
ID	INT	10
NAMN	VARCHAR	20
PRIS	DECIMAL	10

In the left sidebar, there is a dropdown menu '(De senaste tabellerr...)' and a message 'Inga tabeller funna i databasen.' Below that is a 'Skapa tabell' button.

LÄGG TILL DATA

The screenshot shows a web browser window with two tabs: 'sql5.hostinger.se /' and 'MySQL :: MySQL 5.'. The address bar shows 'sql5.hostinger'. The browser's navigation bar includes back, forward, refresh, and home buttons, along with search, star, and extension icons. The main content area displays a breadcrumb trail: 'localhost » u130893839_shop » produkter'. Below this is a toolbar with buttons for 'Bläddra', 'Struktur', 'SQL', 'Sök', 'Lägg till', and 'Mera'. The 'Lägg till' button is active, showing a form for adding a new record to the 'produkter' table. The form has the following structure:

Kolumn	Typ	Funktion	Null	Värde
ID	int(10)	<input type="text"/>		<input type="text" value="1"/>
NAMN	varchar(20)	<input type="text"/>		<input type="text" value="Standard PC"/>
PRIS	decimal(10,0)	<input type="text"/>		<input type="text" value="7800"/>

At the bottom of the form is a 'Kör' button.

SKAPA PHP-SKRIPT SOM HÄMTAR DATA FRÅN DATABASEN OCH SKAPAR EN JSON-LISTA

```
<?php
$conn = new mysqli("localhost", "Användare", "lösenord", "Databas");
$result = $conn->query("SELECT * FROM produkter");
while($row = mysqli_fetch_assoc($result))
    $rows[] = $row;
echo json_encode($rows);
$conn->close();
?>
```

Tips

<http://php.net/manual/en/mysqli-result.fetch-assoc.php>

<http://www.kodingmadesimple.com/2015/01/convert-mysql-to-json-using-php.html?m=1>

VISA DATA MED ANGULAR

```
<div ng-app="myApp" ng-controller="produktCtrl">
  <table border="1">
    <tr ng-repeat="x in produkter">
      <td>{{ x.NAMN }}</td>
      <td>{{ x.PRIS }}</td>
    </tr>
  </table>
</div>
<script>
  var app = angular.module('myApp', []);
  app.controller('produktCtrl', function ($scope, $http) {
    $http.get("produkter.php")
      .then(function (response) {
        $scope.produkt = response.data;
      });
  });
</script>
```

ÖVNING

SKAPA EN ENKEL INKÖPSLISTA

Min inköpslista

Mjök	×
Bröd	×
Ost	×

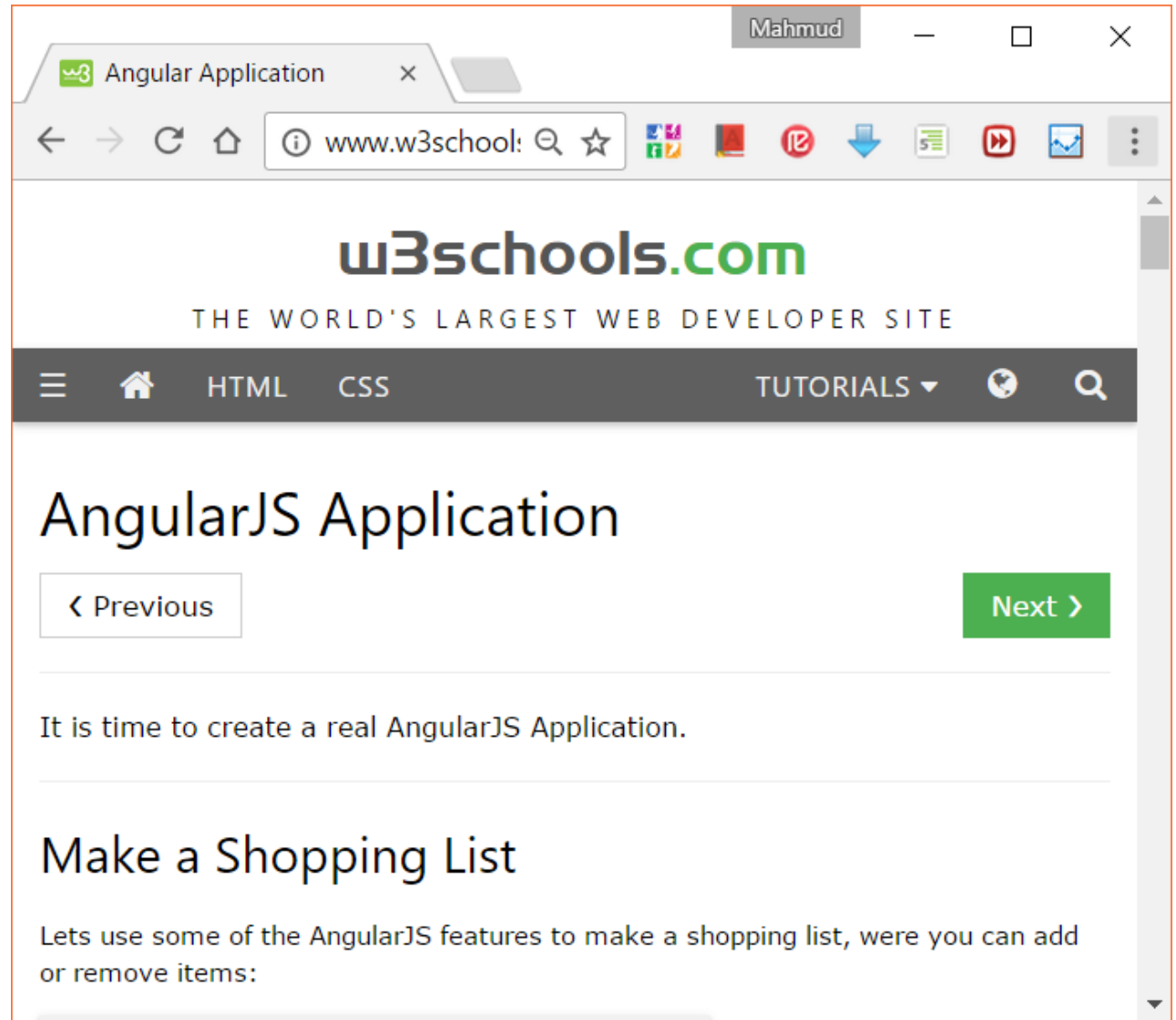
Vad vill du handla idag

Produkten finns redan i din lista!

LÖSNINGSFÖRSLAG FINNS HÄR

VG-Övning

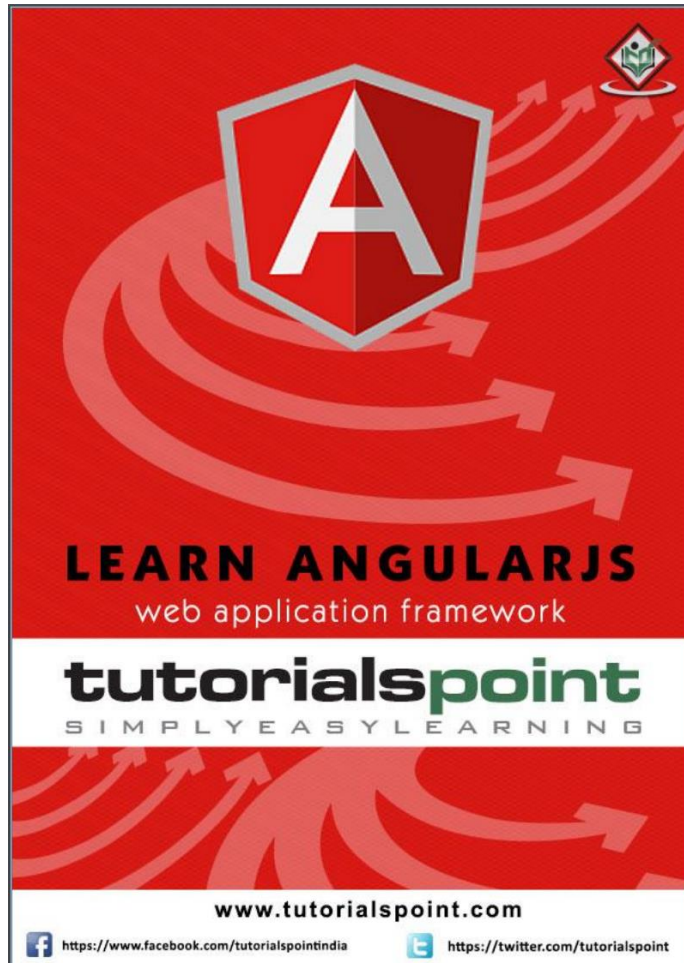
Spara dina listor i en
databas



http://www.w3schools.com/angular/angular_application.asp

TIPS! BRA TUTORIAL I PDF-FORMAT

[HTTP://WWW.TUTORIALSPOINT.COM/ANGULARJS/ANGULARJS_TUTORIAL.PDF](http://www.tutorialspoint.com/angularjs/angularjs_tutorial.pdf)



TIPS! BRA VIDEO ATT TITTA PÅ
LEARN AND UNDERSTAND ANGULARJS
TONY ALICEA <https://goo.gl/qZMQGn>



TIPS! VILL DU LÄSA MER? <https://www.ng-book.com/>
NG-BOOK — THE COMPLETE BOOK ON ANGULARJS

An advertisement for the book 'ng-book: The Complete Book on AngularJS'. The background is a dark green gradient. On the left, the text 'ng-book.' is written in a large, white, sans-serif font. Below it, in a smaller white font, is the text 'The in-depth, complete, and up-to-date book on Angular. Become an AngularJS expert today.' At the bottom left, there is an orange rounded rectangular button with the white text 'Jump to packages'. On the right side, there is a book cover image. The cover features a dark background with a pattern of glowing orange and yellow light trails, resembling sparks or fiber optic lights. The title 'ng-book' is written in white, bold, sans-serif font, with the subtitle 'The Complete Book on AngularJS' below it in a smaller white font. At the bottom left of the cover is the 'FULLSTACK.io' logo, and at the bottom right is the author's name 'Ari Lerner'.

Ladda ner boken här! <https://goo.gl/8U9tLr>

TIPS! GRATIS KURS FRÅN [HTTP://CODESCHOOL.COM](http://codeschool.com)



The screenshot shows a web browser window with the URL <https://www.codeschool.com/courses/shaping-up-with-angular-js>. The page features the Code School logo (a Pluralsight company) and navigation links for Learn, Support, Pricing, and Business. The main content area has a colorful geometric background and displays the course title 'Shaping up with Angular.js' under the 'JAVASCRIPT' category. A description states: 'Angular allows your application to have an expanded HTML library. Learn to add behavior to your HTML and speed up your application's responsiveness.' Below the description are two buttons: 'Resume Course' and 'Add bookmark'.

Rekommenderas
varmt

<https://www.codeschool.com/courses/shaping-up-with-angular-js>