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Cosmic DEVELOPMENT

THE MAGIC OF ANGULARJS

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JavaScript Warrior

jQuery
write less, do more.

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Single Page Apps

jQuery

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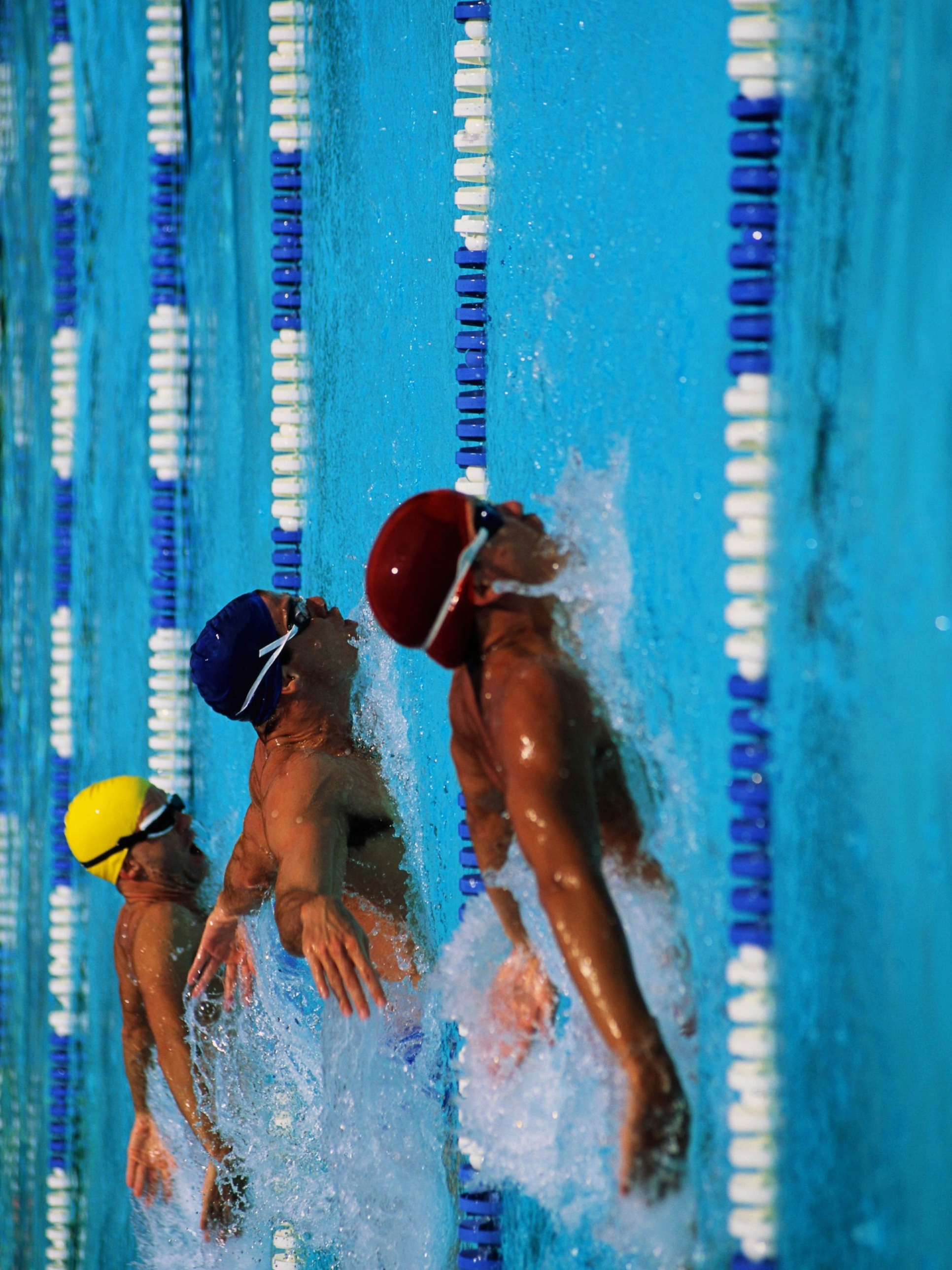
The reason Angular JS will fail

It's difficult to learn

With JQuery you write less code

DOM manipulation is hard

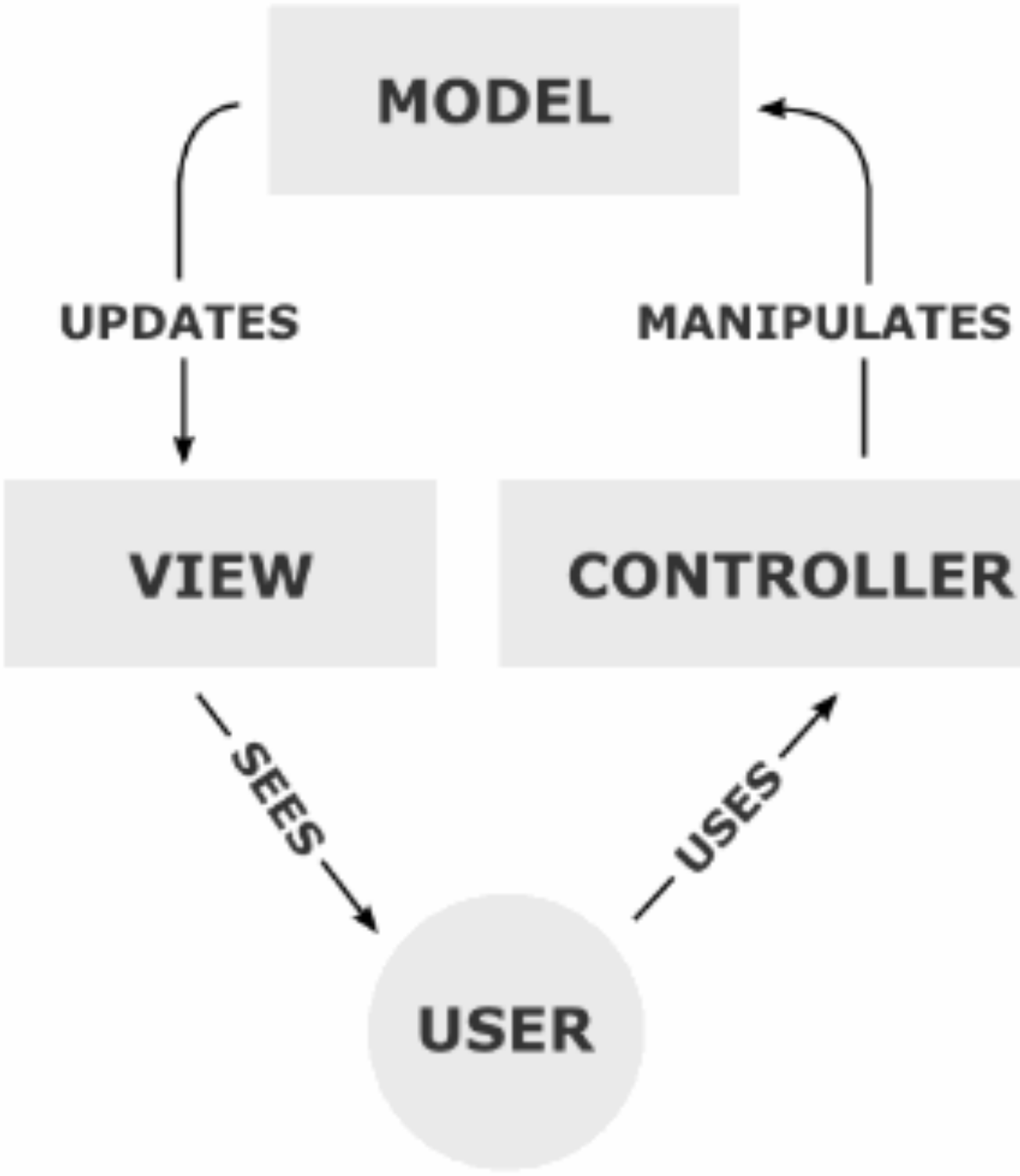
Frameworks suck



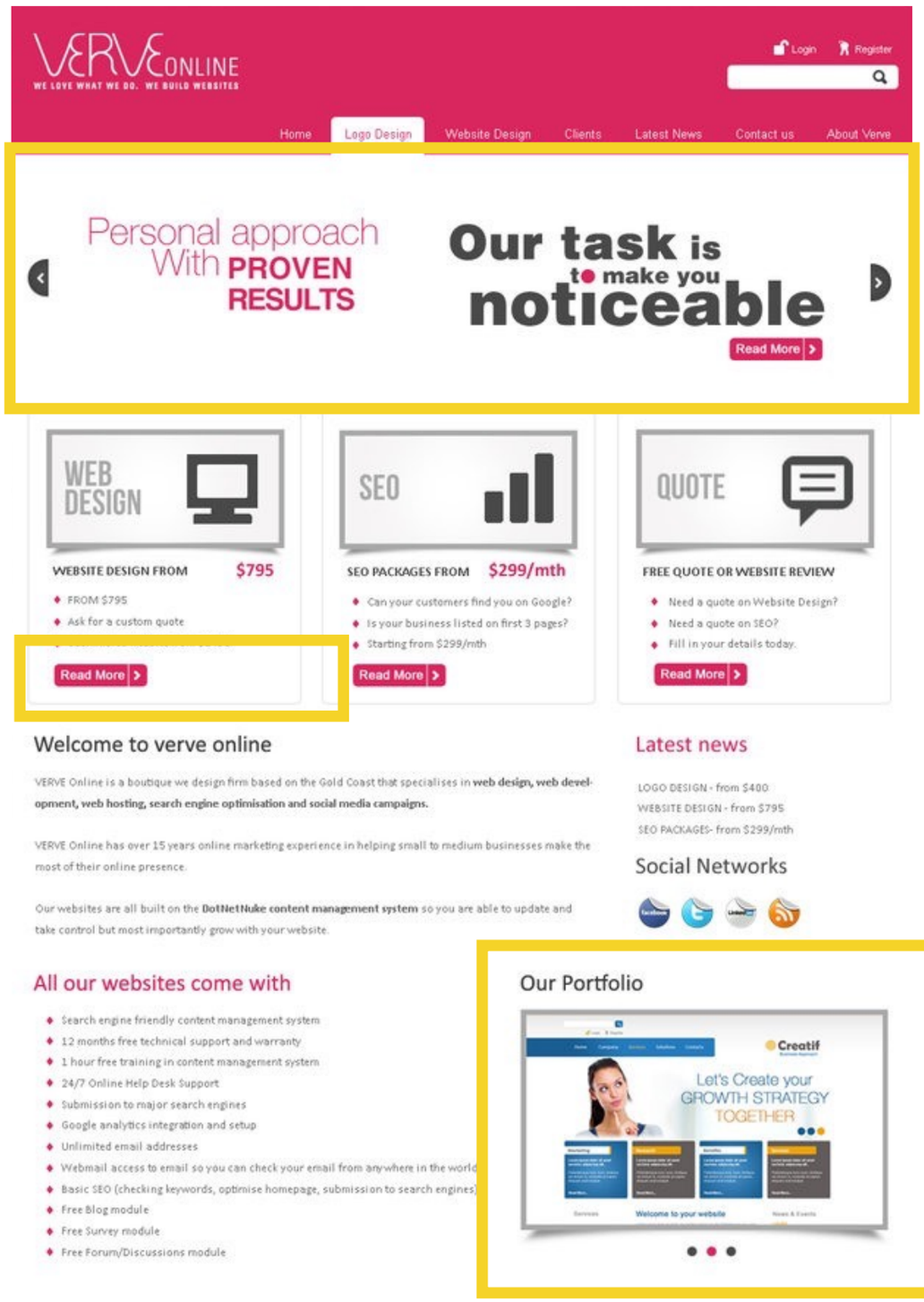
Regent
Seven Seas NAVIGATOR

is a

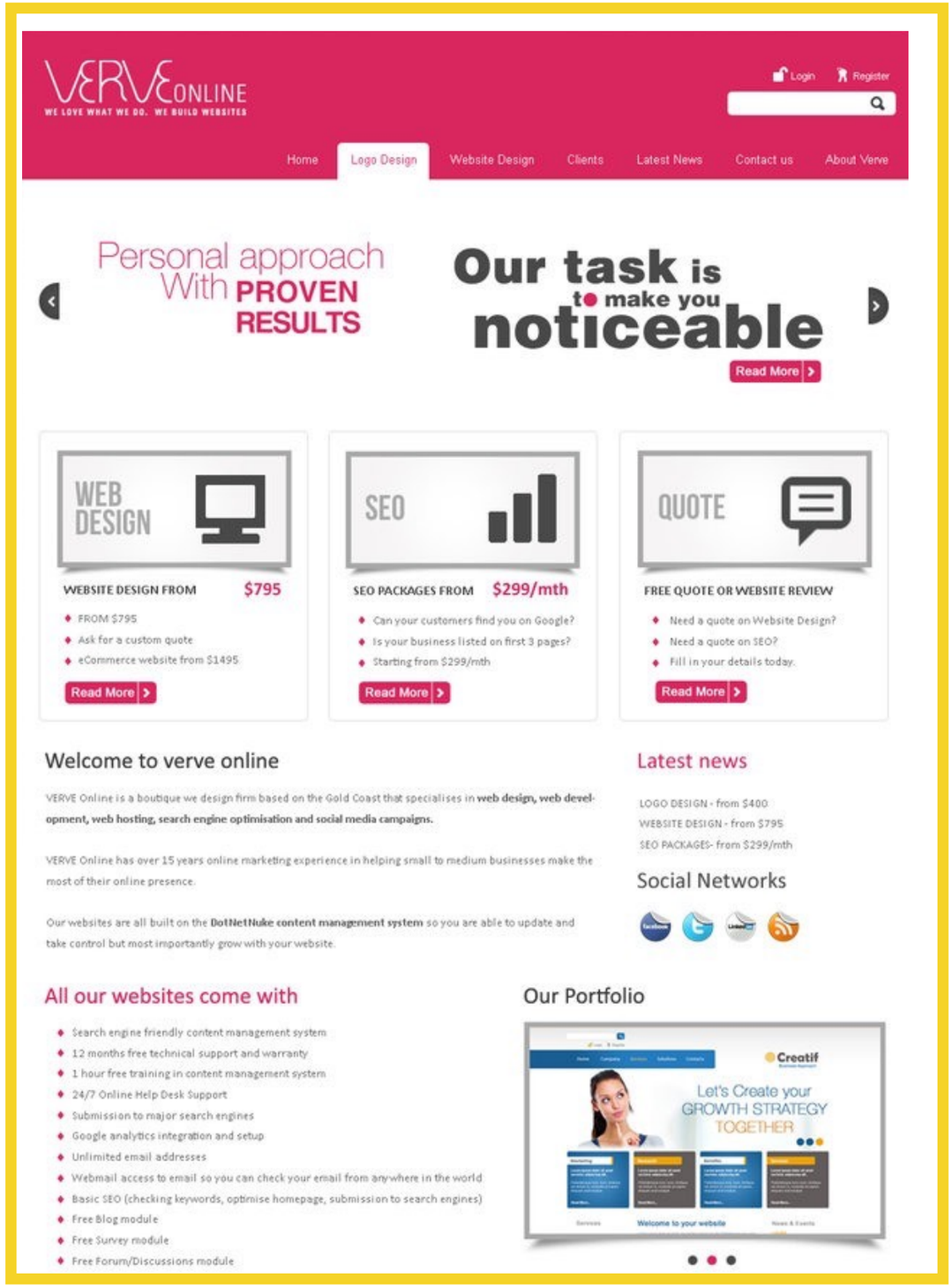
MVC
JavaScript
Framework


MODEL
UPDATES
MANIPULATES
VIEW
CONTROLLER
SEES
USES
USER

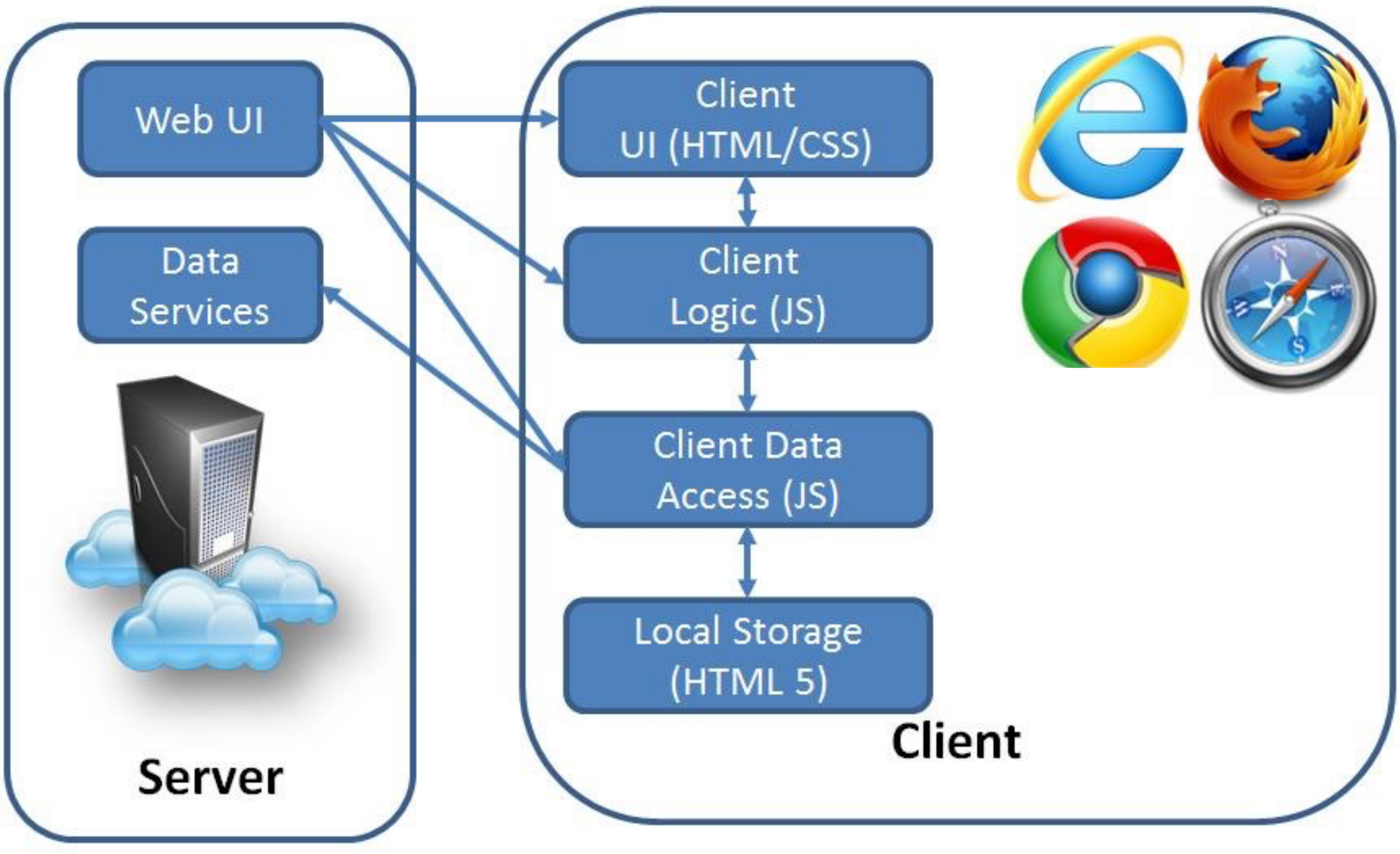
Traditional Web Apps



SPAs



SPA


Web UI
Data Services
Server
Client UI (HTML/CSS)
Client Logic (JS)
Client Data Access (JS)
Local Storage (HTML 5)
Client

Why make SPAs?

1. No more reloads!

2. Complex State

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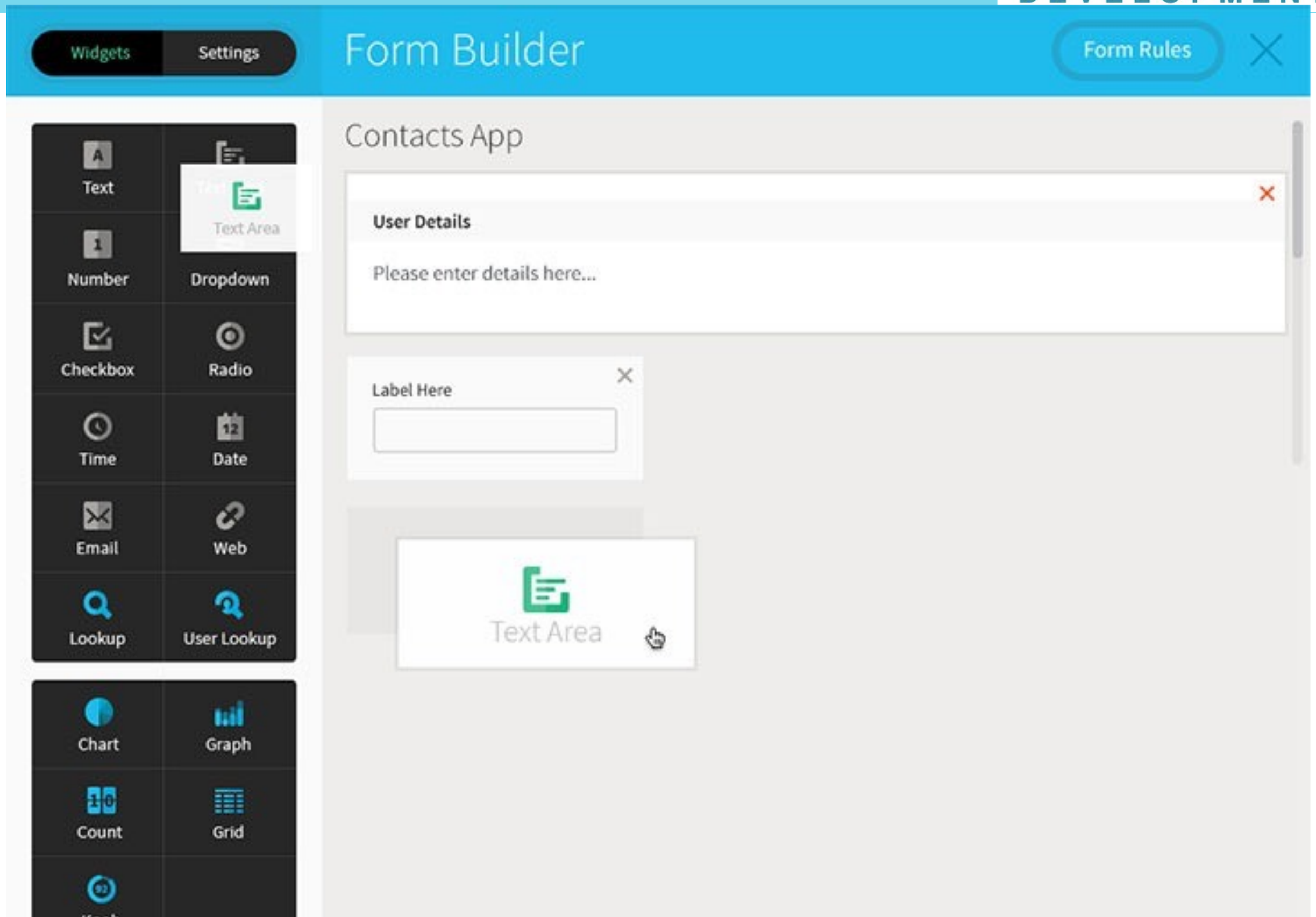


AngularJS Components

Model	View	Controller

Services
Unit Testing

E2E Testing
Directives
Filters
Routing
Data Binding

Scope

Let’s see some magic

Two-Way Data Binding

```
<input type="text" ng-model="someText">
<h3>{{ someText }}</h3>
```

Result

Expressions

```
<input type="text" ng-model="someNumber">
<h3>Number: {{ someNumber }}</h3>
<h3>Number * 2: {{ someNumber * 2 }}</h3>
<h3>Number * 4: {{ someNumber * 4 }}</h3>
```

Number:

Number * 2: null

Number * 4: null

$scope

```
<div ng-app ng-controller="AppController">
  <h3>Message: {{ message }}</h3>
</div>
```

```
function AppController($scope) {
  $scope.message = 'Hello there!!!';
}
```

Message: Hello there!!!

Directives

```
<div ng-app ng-controller="AppController">
    <person name="Petar">
        <hair color="brown"></hair>
        <eyes color="brown"></eyes>
        <shirt color="red"><shirt>
        <shoes type="converse"></shoes>
    </person>
</div>
```

Directives

```
app.directive('person', function() {
  return {
    scope: {
        name: '='
    },
    restrict: 'E',
    templateUrl: 'templates/person',
    controller: function($scope) {
        $scope.sayHello = function() {
            alert('Hello!');
        }
    },
    link: function(scope, elem, attrs) {
      elem.bind('click', function() {
        elem.css('background-color', 'red');
      });
    }
  };
});
```

Directives

```
<div ng-app ng-controller="AppController">
    <button class="btn btn-success" ng-click="toggleMessage()">
        Toggle Message
    </button>
    <hr>
    <h3 ng-show="showMessage">This is a Message</h3>
</div>
```

```
function AppController($scope) {
  $scope.toggleMessage = function() {
      $scope.showMessage = !$scope.showMessage;
  };
}
```

Resul

Toggle Message

Filters

```
<div ng-app ng-controller="AppController">
    <input type="text" class="form-control" ng-model="price">
    <h3>{{ price | currency: 'RSD ' }}</h3>
</div>
```

Result

ng-repeat

```
<div ng-app ng-controller="AppController">
    <span ng-repeat="coffee in coffees">{{ coffee }}</span>
</div>
```

```
function AppController($scope) {
  $scope.coffees = [
    'Espresso',
    'Black',
    'Nes Coffee',
    'Filter'
  ];
}
```

Espresso Black Nes Coffee Filter

ng-repeat

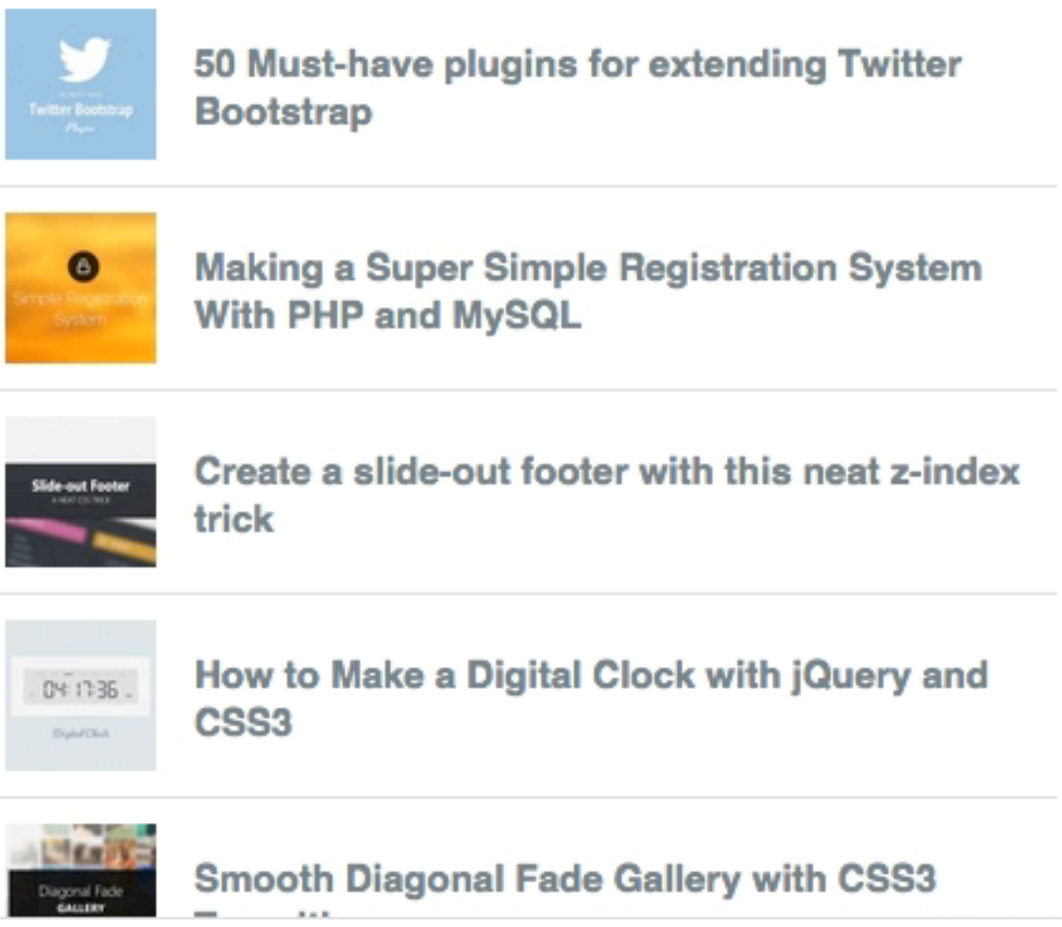
```HTML
<div ng-app ng-controller="AppController">
    <span ng-repeat="coffee in coffees | limitTo: 2">{{ coffee }} </span>
</div>
```

```
function AppController($scope) {
  $scope.coffees = [
    'Espresso',
    'Black',
    'Nes Coffee',
    'Filter'
  ];
}
```

Espresso Black

Instant Search

```
<div class="bar">
    <input type="text" ng-model="searchString" placeholder="Enter your search terms"
</div>
<ul>
    <li ng-repeat="i in items | filter:searchString">
        <a href="{{i.url}}"><img ng-src="{{i.image}}" /></a>
        <p>{{i.title}}</p>
    </li>
</ul>
```



Dependency Injection

```
function AppController($scope, $http, $modal) {
  $http
     .get('/users')
     .then(function(response) {
        $scope.users = response.data;

        if($scope.users.length < 2) {
          $modal.show('Not enough Users!');
        }
     });
}
```