

In this step, you will add a clickable phone image swapper to the phone details page.

• The phone details view displays one large image of the current phone and several smaller thumbnail images. It would be great if we could replace the large image with any of the thumbnails just by clicking on the desired thumbnail image. Let's have a look at how we can do this with Angular.

Workspace Reset Instructions ➤

The most important changes are listed below. You can see the full diff on GitHub

Controller

app/js/controllers.js:

```
...
var phonecatControllers = angular.module('phonecatControllers',[]);

phonecatControllers.controller('PhoneDetailCtrl', ['$scope', '$routeParams', '$http',
  function($scope, $routeParams, $http) {
    $http.get('phones/' + $routeParams.phoneId + '.json').success(function(data) {
    $scope.phone = data;
    $scope.mainImageUrl = data.images[0];
    });

$scope.setImage = function(imageUrl) {
    $scope.mainImageUrl = imageUrl;
  }
}]);
```

In the PhoneDetailCtrl controller, we created the mainImageUrl model property and set its default value to the first phone image URL.

We also created a setImage event handler function that will change the value of mainImageUrl.

Template

app/partials/phone-detail.html:

We bound the ngSrc directive of the large image to the mainImageUrl property.

We also registered an ngClick handler with thumbnail images. When a user clicks on one of the thumbnail images, the handler will use the setImage event handler function to change the value of the mainImageUrl property to the URL of the thumbnail image.

Test

To verify this new feature, we added two end-to-end tests. One verifies that the main image is set to the first phone image by default. The second test clicks on several thumbnail images and verifies that the main image changed appropriately.

test/e2e/scenarios.js:

```
...

describe('Phone detail view', function() {

...

it('should display the first phone image as the main phone image', function() {

expect(element(by.css('img.phone')).getAttribute('src')).toMatch(/img\phones\nexus-s.0.jpg/);
});

it('should swap main image if a thumbnail image is clicked on', function() {

element(by.css('.phone-thumbs li:nth-child(3) img')).click();

expect(element(by.css('img.phone')).getAttribute('src')).toMatch(/img\phones\nexus-s.2.jpg/);

element(by.css('.phone-thumbs li:nth-child(1) img')).click();

expect(element(by.css('img.phone')).getAttribute('src')).toMatch(/img\phones\nexus-s.0.jpg/);
});
});
```

You can now rerun npm run protractor to see the tests run.

You also have to refactor one of your unit tests because of the addition of the mainImageUrl model property to the PhoneDetailCtrl controller. Below, we create the function xyzPhoneData which returns the appropriate json with the images attribute in order to get the test to pass.

test/unit/controllersSpec.js:

```
beforeEach(module('phonecatApp'));
describe('PhoneDetailCtrl', function(){
 var scope, $httpBackend, ctrl,
    xyzPhoneData = function() {
     return {
      name: 'phone xyz',
      images: ['image/url1.png', 'image/url2.png']
    };
  beforeEach(inject(function(_$httpBackend_, $rootScope, $routeParams, $controller) {
   $httpBackend = _$httpBackend_;
   $httpBackend.expectGET('phones/xyz.json').respond(xyzPhoneData());
   $routeParams.phoneId = 'xyz';
   scope = $rootScope.$new();
   ctrl = $controller('PhoneDetailCtrl', {$scope: scope});
 }));
  it('should fetch phone detail', function() {
   expect(scope.phone).toBeUndefined();
   $httpBackend.flush();
   expect(scope.phone).toEqual(xyzPhoneData());
 });
});
```

Your unit tests should now be passing.

Experiments

Let's add a new controller method to PhoneDetailCtrl:

```
$scope.hello = function(name) {
   alert('Hello' + (name || 'world') + '!');
}
```

and add:

```
<button ng-click="hello('Elmo')">Hello</button>
```

to the phone-detail.html template.

Summary

With the phone image swapper in place, we're ready for step 11 to learn an even better way to fetch data.



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