

# Exercise (Instructions): Using the Camera Plugin

## Objectives and Outcomes

In this exercise, you will continue exploring more Cordova plugins. In particular, you will use the Cordova camera plugin to access the device's built-in camera to retrieve image data and use it within your application. At the end of this exercise, you will be able to:

- Use the Cordova camera plugin together with the ngCordova wrapper to access the device's native camera to retrieve image data
- Make use of the image data within your application

## Adding the Cordova Camera Plugin

- First, add the Cordova camera plugin by typing the following at the command prompt:

```
ionic plugin add cordova-plugin-camera
```

- Or use the following command at the command prompt, if your Cordova version is below 5.0:

```
ionic plugin add org.apache.cordova.camera
```

## Updating sidebar.html

- Add the following additional list item to the sidebar menu in *sidebar.html*:

```
<ion-item menu-close ng-click="register()">  
  Register  
</ion-item>
```

## Updating AppCtrl Controller

- Open controllers.js and update the AppCtrl controller definition as follows:

```
.controller('AppCtrl', function ($scope, $ionicModal, $timeout, $localStorage, $ionicPlatform, $cordovaCamera) {
```

- Then add in an empty JavaScript variable named *registration* as follows:

```
$scope.registration = {};
```

- Then add the code to set up the registration modal as follows:

```
// Create the registration modal that we will use later
$ionicModal.fromTemplateUrl('templates/register.html', {
  scope: $scope
}).then(function (modal) {
  $scope.registerform = modal;
});

// Triggered in the registration modal to close it
$scope.closeRegister = function () {
  $scope.registerform.hide();
};

// Open the registration modal
$scope.register = function () {
  $scope.registerform.show();
};

// Perform the registration action when the user submits the registration form
$scope.doRegister = function () {
  // Simulate a registration delay. Remove this and replace with your registration
  // code if using a registration system
  $timeout(function () {
    $scope.closeRegister();
  }, 1000);
}
```

```
};
```

- Add the following code to AppCtrl to make use of the Cordova camera plugin within our application:

```
$ionicPlatform.ready(function() {  
    var options = {  
        quality: 50,  
        destinationType: Camera.DestinationType.DATA_URL,  
        sourceType: Camera.PictureSourceType.CAMERA,  
        allowEdit: true,  
        encodingType: Camera.EncodingType.JPEG,  
        targetWidth: 100,  
        targetHeight: 100,  
        popoverOptions: CameraPopoverOptions,  
        saveToPhotoAlbum: false  
    };  
  
    $scope.takePicture = function() {  
        $cordovaCamera.getPicture(options).then(function(imageData) {  
            $scope.registration.imgSrc = "data:image/jpeg;base64," + imageData;  
        }, function(err) {  
            console.log(err);  
        });  
  
        $scope.registerform.show();  
    };  
});
```

### Add the register.html Template

- In the *templates* folder, create a new file named *register.html*, and add the following code to it:

```
<ion-modal-view>
```

```

<ion-header-bar>
  <h1 class="title">Register</h1>
  <div class="buttons">
    <button class="button button-clear" ng-click="closeRegister()">Close</button>
  </div>
</ion-header-bar>
<ion-content>
  <form ng-submit="doRegister()">
    <div class="list">
      <label class="item item-input">
        <span class="input-label">Your Picture</span>
      </label>
      <label class="item item-input">
        
      </label>
      <label class="item item-input">
        <button class="button button-block button-positive" type="button" ng-click="takePicture()">
          Take Picture
        </button>
      </label>
      <label class="item item-input">
        <span class="input-label">First Name</span>
        <input type="text" ng-model="registration.firstname">
      </label>
      <label class="item item-input">
        <span class="input-label">Last Name</span>
        <input type="text" ng-model="registration.lastname">
      </label>
      <label class="item item-input">
        <span class="input-label">Username</span>
        <input type="text" ng-model="registration.username">
      </label>
      <label class="item item-input">

```

```
        <span class="input-label">Telephone Number</span>
        <input type="tel" ng-model="registration.telnum">
    </label>
    <label class="item item-input">
        <span class="input-label">Email</span>
        <input type="email" ng-model="registration.email">
    </label>
    <label class="item">
        <button class="button button-block button-positive" type="submit">Register<
/button>
    </label>
</div>
</form>
</ion-content>
</ion-modal-view>
```

- Save the changes, build and deploy the application and see the changes.