

## IN-CLASS STUDENT ACTIVITY 4.7: ACCESS DEVICE AND OPERATING SYSTEM RESOURCES

### Lesson Objective 4.7:

Access device and operating system resources.

### Resources, software, and additional files needed for this lesson:

1. Microsoft® Word and Internet access.

### Guiding questions:

1. What is WinRT and how is it used in web development?
2. How do mobile devices maintain and store contact lists and calendars?
3. Most mobile devices have GPS components and built-in cameras. How can a web developer access and use these components?

### Student activity:

### Directions to the student:

Read the following scenario and answer the questions listed in the Content section.

### Scenario:

The web developer for Margie's Travel has an idea for a new application that will enhance the company's website. He wants to use Windows® Runtime and the Windows API to create a Metro style application that allows tourists to use mobile devices with cameras and GPS devices to tag the photos they take on trips arranged by Margie's Travel. Their online photo album would showcase their travels including geolocation data.

Content:

1. Read about Windows Runtime design: <http://msdn.microsoft.com/en-us/library/windows/apps/hh464947.aspx>.
2. How can a web developer create a photo album application that saves pictures and the location of each picture?