

## Activity 04 – AWS DynamoDB

**Note:** You may do this assignment alone or in groups of two.

### Purpose

1. To be able describe NoSQL data storage and access approaches
2. To be able to use AWS DynamoDB to store and query data.

### Activity

For this assignment you may complete either activity A or activity B (but NOT both).

#### Activity A: Implementation project

Consider the **session** entity for the factory data model:

<https://info445sp2013.signin.aws.amazon.com/console>

Using AWS DynamoDB, implement a PHP script which can be used to store **Sessions**, **Inspections** and **Repairs**. Your implementation should do the following:

1. (10 points.) Provide a PHP page that enables a user to enter information for a session, an inspection or a repair and have that data stored in a DynamoDB table. Please note that the data elements for each of these entities are different.
2. (10 points.) Provide a PHP page that enables a user to search for sessions, inspections, and repairs in the following ways:
  - a. By worker name, find all sessions, inspections, and repairs.
  - b. For a date range, find all sessions, inspections, and repairs.

**What to hand in?** A one page summary of your coding project, including a link to a working website. At the website, please include links to all source code.

#### Activity B: Writing activity

1. (20 points.) When is it appropriate to use NoSQL databases? Write a 3-page report (about 1,500 words) that answers this question.

**What to hand in?** Upload a PDF of your report, written concisely and clearly. Please include a title for your report, your name, and complete citations to source documents (3-5 references would be appropriate).