

## BCI433 Lab 11 (updated Fall 2020)

This is a bonus lab, it can be used to get one bonus mark applied to any lab that is not 5/5.

This lab requires a camera to demonstrate your successful installation and demonstration of an app running using RPGLE code accessing a database on our IBMi.

If you do not have a camera, you can install an emulation program allowing you to share your screen to demonstrate what was described in the paragraph above.

Lab objectives:

Install LongRange on your mobile device or emulation program.

Configure a new profile on your mobile device allowing you to access the demonstration apps running off of an IBMi system

Requirements to earn the lab bonus mark:

Answer the question at the end of this handout.

Demonstrate the following mobile app and its code

The image displays two screenshots of a mobile application. The left screenshot shows the 'Location Tables' app interface. It features a title bar with a globe icon and the text 'Location Tables'. Below the title bar, there is a section titled 'Some LANSA Offices' containing a table with columns for City, Address, Call, and Site. The table lists two offices: Amsterdam (Paasheuvelweg 15, 1105 BE) and Chicago (3010 Highland Parkway, Downers Grove, Illinois 60515). Below the table is a section titled 'Location of Amsterdam office' which shows a map of the area around the Amsterdam office, with labels for 'Bullewijk', 'Gaasperdammerweg', 'AMSTELIEN BULLEWIJK', 'University Hospital Amsterdam UMC - Locatie AMC', and 'Museum Vro'. The right screenshot shows the source code for the application. It starts with a title bar and a description: 'Description: "Location Lists" example in Source File: LRNG\_DEMO/SOURCEEXA Member: EXAM0062 Rating: Not Available'. Below the description are two buttons: 'Email this Code' and 'Documents'. The code is in RPGLE and includes declarations for data structures and variables. The code is as follows:

```
H BNDDIR('LRNGSRV') DFTACTGRP(*no) ACTGRP(*caller)
H BNDDIR('EZISERVICE')
* RPG file declarations - includes all form view
FEXAM0062D CF E WORKSTN
DOffices C 8
DCompileTime DS
D City 50A Dim(Offices)
D Street 50A Dim(Offices)
D Locality 50A Dim(Offices)
D PostCode 20A Dim(Offices)
D Phone 20A Dim(Offices)
D WebSite 40A Dim(Offices)
* GEO details in one managed unit
DGEO DS Qualified
D Latitude 30A Inz(' ')
D Longitude 30A Inz(' ')
D Altitude 30A Inz(' ')
* Address overlays
D DS
D ToAddressC 1 512
D ToAddressA 1 512 Dim(512)
* Working variables
D i s 10I00 Inz(0)
D l s 10I00 Inz(0)
D URL s 512A Inz('') vary
D Address s 256A Varying
D TempIndex s 10I00 Inz(0)
D CurrentOfficeIndex...
D s 10I00 Inz(1)
D MainLoopCount s 10I00 Inz(0)
* Standard include to bring in the external LRNG
```

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Install LongRange using either Google Play or the App Store.

Set up a profile called Yourname Demo. (Use your actual name.)

**Edit Profile** DELETE PROFILE

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**Profile Name**

Profile Name

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**Server Details**

Server Name

Use SSL

Server Port

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**Advanced Settings**

Schema Name

IBM i >

LANSA >

Document Server >

Miscellaneous Settings >

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Your instructor will give out the above information in class. If you miss this class, get the information from a classmate. The password for LRNGUSER is MAP525.



In order for the above mobile app to run a directory is installed in the IFS called AXES. Also, some additional libraries are added.

What are all the extra libraries installed on our system that support extended RPGLE and DDS allowing mobile apps to run? (Hint all the libraries start with LRNG)

\_\_\_\_LRNG\_DEMO\_\_\_\_                      \_\_\_\_LRNG\_PR\_ME\_\_\_\_  
\_\_\_\_LRNG\_PR\_MS\_\_\_\_                      \_\_\_\_LRNG\_PRAGN\_\_\_\_  
\_\_\_\_LRNG\_PRNEW\_\_\_\_                      \_\_\_\_LRNG\_PROJ\_\_\_\_  
\_\_\_\_LRNG\_SOFT\_\_\_\_                      \_\_\_\_LRNG\_SOFTC\_\_\_\_  
\_\_\_\_LRNG\_SOFT1\_\_\_\_                      \_\_\_\_LRNG\_TEMP\_\_\_\_  
\_\_\_\_LRNGUSER\_\_\_\_                      \_\_\_\_LRNGJOB40\_\_\_\_  
\_\_\_\_LRNGJOB\_\_\_\_

Use the WRKACTJOB command.

What is the name of the Subsystem/Job that runs supporting mobile apps

\_\_\_\_AXES\_\_\_\_