

Building Mobile Apps with *FireMonkey*

Fast Track to Mobile Development Training for Delphi & RAD Studio

About Jim McKeeth

- Embarcadero's Chief Developer Advocate & Engineer
- Long time software developer
- Invented and patented pattern and swipe to unlock
 - US Patent # 8352745 & 6766456, etc.
- Built thought controlled drone with Google Glass
- Host of Podcast at Delphi.org
- Lives near Boise, Idaho, USA with family & dogs
- Improvisational ComedySportz performer
- Contributor to *Internet of Things and Data Analytics Handbook*



Rest of the Team



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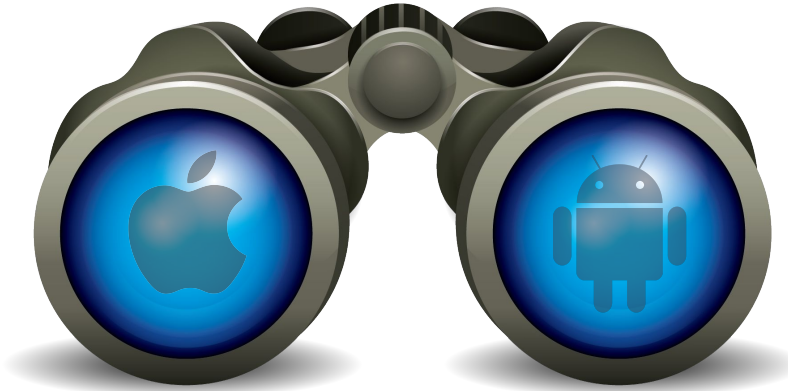
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Training Overview

Training Overview

- Goals for this training
- Agenda and overview
- Where to *Git* the Code
- General Useful Information
- Specs for the App



Goals

- Help you get up to speed for mobile development with FireMonkey
- This is a workshop - we are developing an app together
- Expectations
 - Experienced with Delphi or C++Builder
 - Some experience with database development
 - Follow along with the exercises
- We are showing Delphi, but you can also do it in C++Builder
- Built with 10.3 Rio & should work with any edition
 - Including the free Community Edition



Agenda

- The App Specs: What we are building
- Introduction to **FireMonkey**
- Setting Up for Mobile Development
- Working with Embedded **InterBase**: IB ToGo & IBLite
- Building the User Interface with *Styles*
- LiveBinding: *Connecting the UI to Data*
- Using Sensors: **Hello World!**
- Reporting and Sharing: *Will you be my friend?*
- Architecture Considerations: **Android** vs. **iOS**
- Publishing and Sharing your App
 - Ad-Hoc as well as **Google** and **Apple** stores



Image by Tumisu
<https://pixabay.com/photo-1919292/>

Git the Code

- Available on GitHub
 - <https://github.com/Embarcadero/FieldLogger-FMXTraining>
 - Lab Docs in GitHub ⇒ </tree/master/Lab%20Exercises>
- Delphi, FMX, and SQL code
- Includes the app at various stages
- Also resources and libraries
- These slides: <https://embt.co/FmxMobileAppTraining>
- Master folder on Google Drive:
<https://drive.google.com/drive/u/0/folders/1pH-3UPc9x0I6jF1MWyw2a11Mf2ewUkPX>

GitHub



Useful Information



- There are many links to the DocWikis
 - To save space we'll use shorthand
 - docwiki:RAD = docwiki.embarcadero.com/RADStudio/en/
 - docwiki:lib = docwiki.embarcadero.com/Libraries/en/
 - docwiki:code = docwiki.embarcadero.com/CodeExamples/en/
 - docwiki:ib = docwiki.embarcadero.com/InterBase/2017/en/
- Example:
 - **docwiki:RAD/FireMonkey_Platform_Services**
 - http://docwiki.embarcadero.com/RADStudio/en/FireMonkey_Platform_Services
- You have a copy of the slides and there are notes with more information and comments in the “speaker notes” section

App Specs

- Project log collection application
- Uses Embedded InterBase ToGo (or the free IBLite)
- Database has projects with child log entries
 - Log entries include:
 - DateTime, Picture, Geolocation, Orientation, Accelerometer, User notes
- Screens
 - Edit project details
 - Add logs to project
 - Browse & edit projects & log entries
 - Reporting
 - Export project with log entries as JSON or HTML
 - Save to file or share via email, etc.

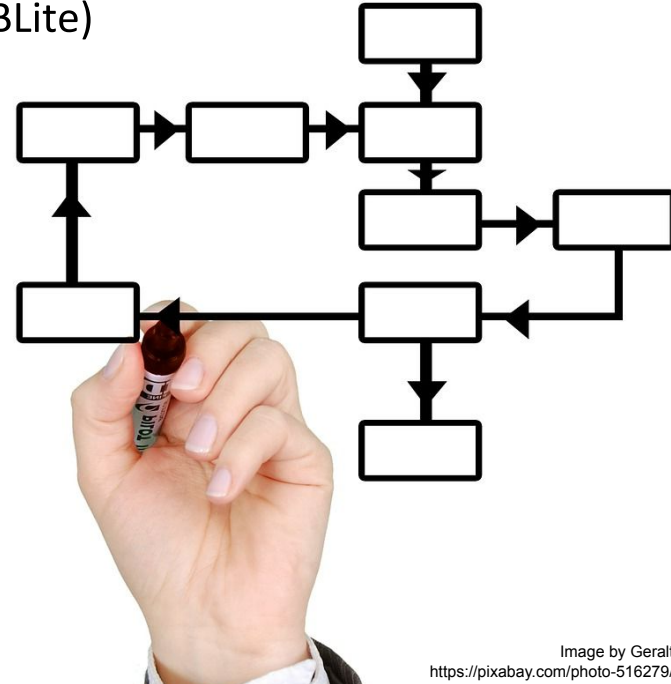


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Up Next...

Introduction to FireMonkey

The cross platform application development framework!