

Introduction to PowerApps for Access Developers

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Or how I learned to love being a citizen developer*

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*not really[†]

[†] not yet

My background



- Started in mainframe/mini development (punched cards and green screens) – COBOL, Algol68R, Fortran
- Mid 80's – came the PC into business
- Used Windows since v2.x and Access developer since the 1st beta (this does not, necessarily, make me an expert!)
- 20+ years of IT Management dabbling in code for internal needs
- Now self-employed, I have three development areas:
 - Turn data into information – long term (pseudo-)agile/prototyping projects
 - Build new systems to replace rubbish or outmoded system
 - Take over maintenance
- That's my excuse list finished 😊

Agenda

- Scenario setup – Judith Mills (done!)
- How did I get interested in PowerApps
- Demo development of a PowerApps app
- Where I see it working well
- Where I see it working badly
- My hints and tips



How did I come to PowerApps



- I genuinely cannot remember!
- But I had tried Xamarin/C# for cross platform stuff – it was just too hard
 - (and had too many {})
 - I'd even tried the Xamarin online development push Microsoft did earlier this year – didn't work on my machine.
- Check out <https://jenstirrup.com/2018/09/15/why-i-changed-my-mind-about-powerapps-and-became-a-fan-and-why-you-should-too/amp/>
- It is mighty powerful, and brilliant in some places
 - (and ***ing lousy in others)
- PowerApps will survive and evolve, it isn't another AWA; Microsoft are investing heavily

Demo development of a PowerApps app



- Hold on to your hats, this might be an interesting ride...
- I will doing everything from creating a new O365 tenant onwards
- If that fails, I have a fallback tenant already created
- If the data imports fail, I have data/apps already there
- If that fails, erm mmmmm
- Oh, and much as I'd like to go off piste during the demo, I am walking a tight rope, so won't!

Where I see it working well



- Jobs in the field or the workshop
- Checklists
- Anywhere a user only has a phone or a tablet
- Maybe on the desktop for kiosk type work
 - Or engineering workshop where a full app would be a bad idea
- Proper “RAD”. It’s really well suited to that (ask Judith!)
- Where you want a simpler, more idiot proof, app
- Even when your client has invented a new form of idiot

Where I see it working badly



- Anywhere you are trying to build the full Access front end experience – don't bother (IMHO).
 - For a simple app running on a tablet
- Consider RDP instead (if you have to).
- Windows desktop only world (not necessary)

My Hints & tips – General (1/5)



- Based on a few months of bitter experience!
- Office 365 is key
- Keep it simple
- Don't try to outthink PowerApps, you'll lose
- Use the documentation of functions online
- Use the fora that are out there
- Security and resilience of the on-prem broadband pipe is key
- Connectivity in the field is key (collections)
- Test systems become interesting. Name change of data source.
- Keep your iterations, release often.

My Hints & tips – SharePoint (2/5)



- Don't exceed 500 rows
- Use separate lists if possible for simpler date (fewer distinct statements)
- Indexes, have at least one unique index
- But, look out for the Title column
- KISS – make lists that compare with SQL Views of your data
- Remove row data as soon as no longer needed
- It's so easy to link from Access, it's a breeze
- Perhaps more work to manage from a SQL/Access setup
- Attachments are easy

My Hints & tips – SQL (3/5)



- Firstly – SQL Azure
 - You're a 365 tenant already (well, probably)
 - No SQL management (well, not really)
 - It (pretty much) just works (no, truly)
 - No really ! Just connect with SMSS, build your schema, add data
- Secondly – on-prem if you like, need or must – you use the Power Data gateway
 - On a dedicated, always on, computer
 - But you have so much more management, if your client is an SME, maybe just use SQL Azure
 - Security of the data gateway needs to be considered

Hints & tips – Other (4/5)



- Multiple sign in to tenants – third party cookies on (private mode doesn't help – KMSI)
- Edge seems better than Firefox
- Stay one page ahead – it is constantly changing.
- Think 3 forms – so much of what you can do with it:
 1. List of things to do – pick one
 2. See all the details of the one you picked
 3. Do it
- Keep the PowerApps app itself up to date
- Recompile the app every now and then and test

Hints & tips – Other stuff (5/5)



- Images – you can grab signatures and things
- Barcodes – scanning works (badly IME) so far
- Attachments – upload photos to SP lists
- Capitalisation – watch out, it's a Unix world!
- Leave/Stay – save constantly
- Although I've not mentioned them, there are oodles of data connections from Microsoft. You can pretty much connect to anything (except Access), lots of it free.

Hints & tips – and finally (6/5)



- I've only scratched the surface!!!
- This is from a very partial viewpoint

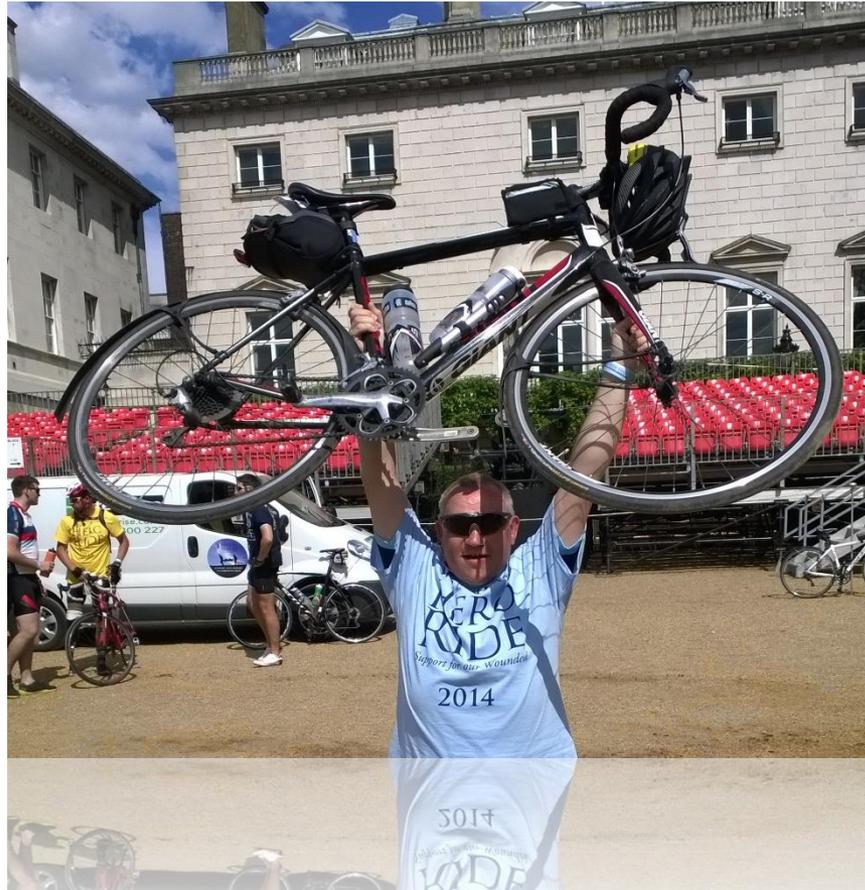
Summary & thoughts



- **Go for it** (or use someone who has 😊).
- You really should go to O365 if you are heading this way
- SQL Azure becomes a really good idea
- Note what you can do with Microsoft Partner Network:
 - Gives you O365
 - \$150 credit per month for Azure
 - Option to buy Access Pack and get most of your software needs

Help for Heroes

- I'm (still) doing my 9th bike ride – 350 miles from the Normandy Beaches to Paris in June.
- If you would like to donate – [http://bit.ly/pjb2019!](http://bit.ly/pjb2019)



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