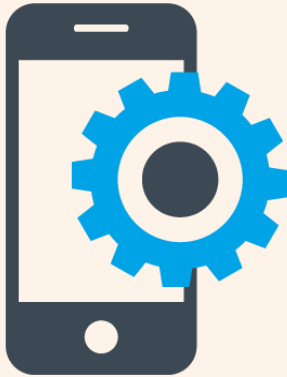


Diploma in Mobile App Development

Part 1

LESSON 4

The Development Lifecycle



MA Instructor: Oisin Feely



Lesson 3: Coding for Beginners

Learning to Code

Adding the Design

Creating the Blocks

Taking it Further

Q & A



Lesson 4: The Development Lifecycle

Software Development Lifecycle Models

The Iterative Process

Learning to Code

Taking it Further

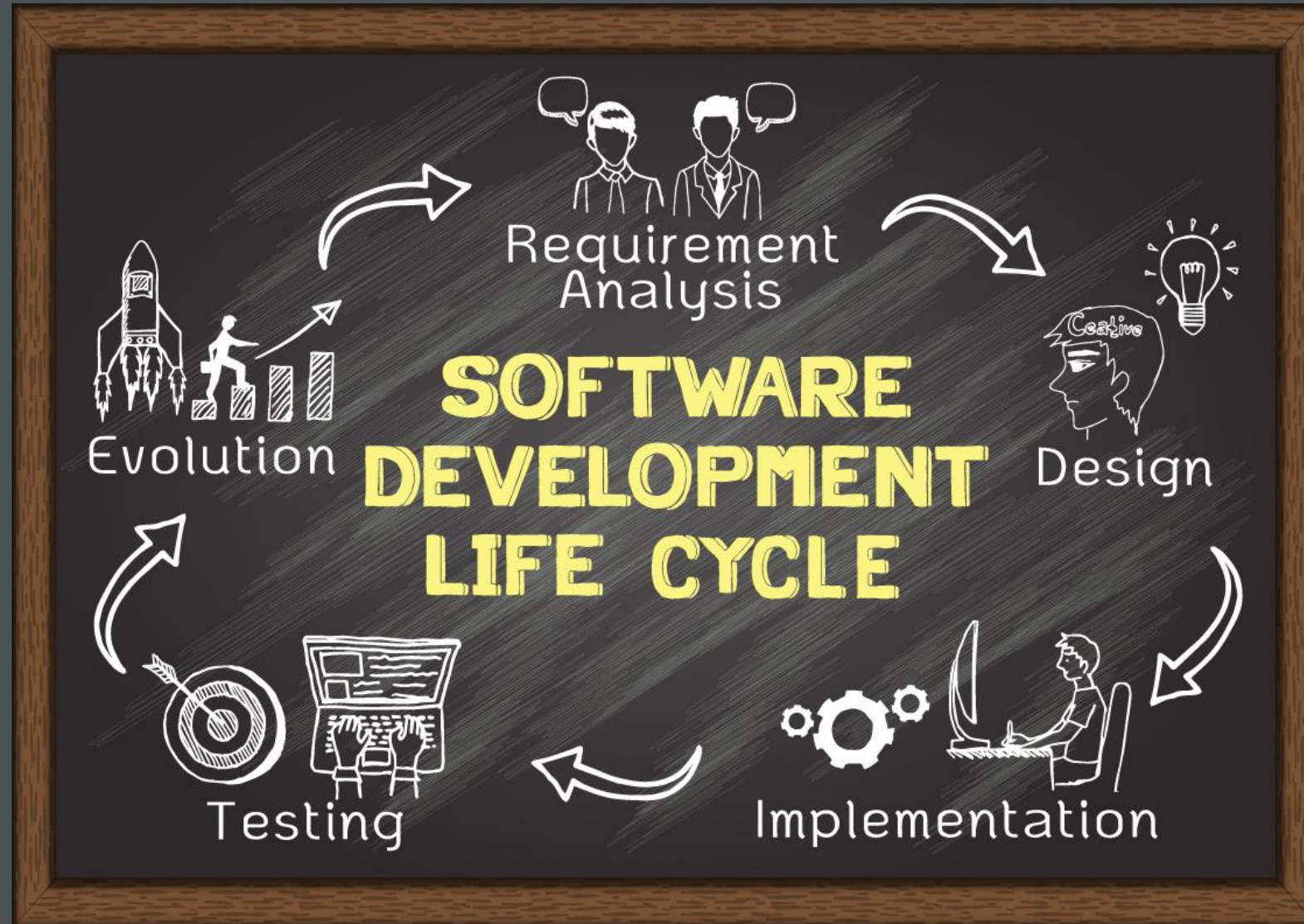
Summary

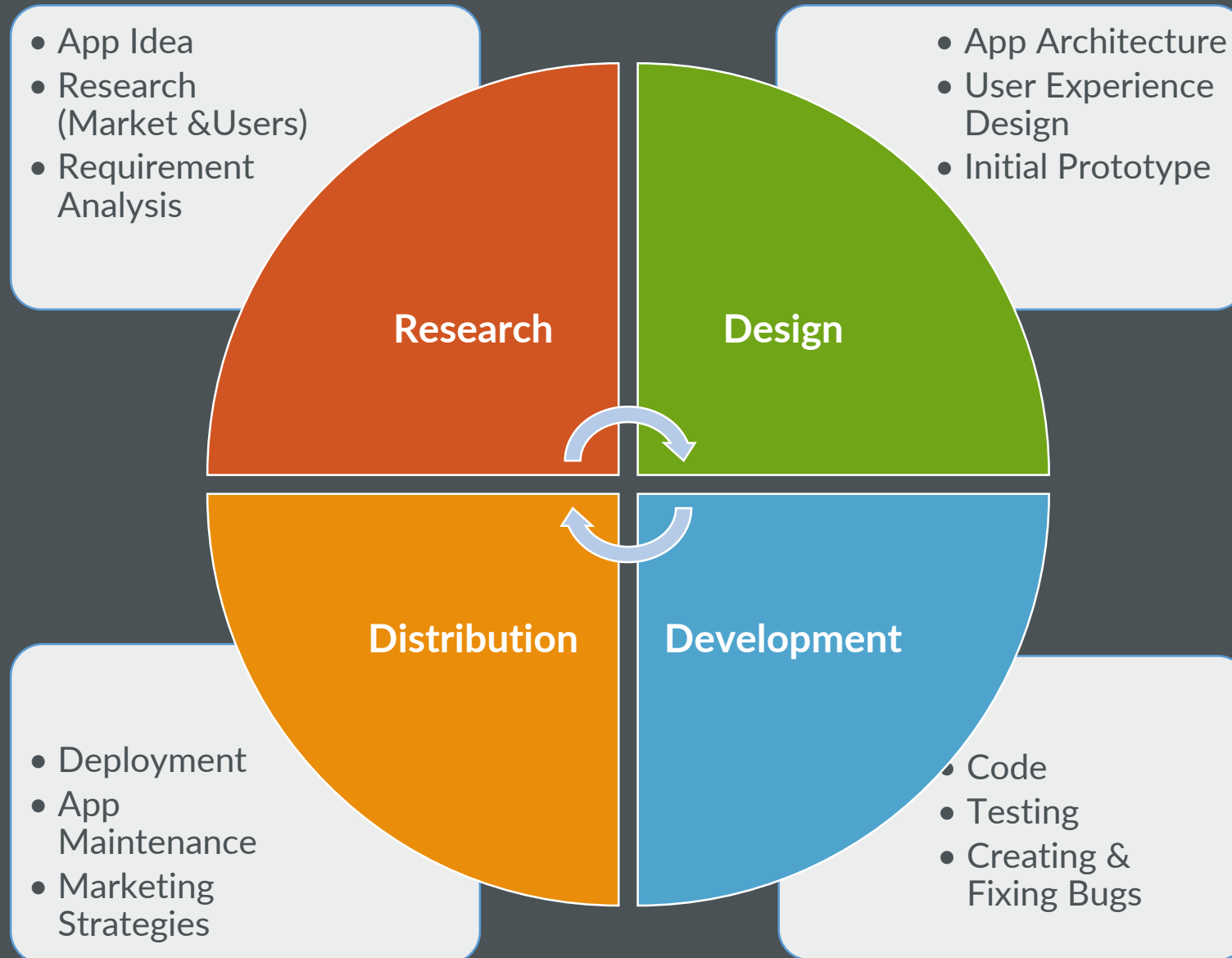
Q & A

Let's Begin!



START





Waterfall Model

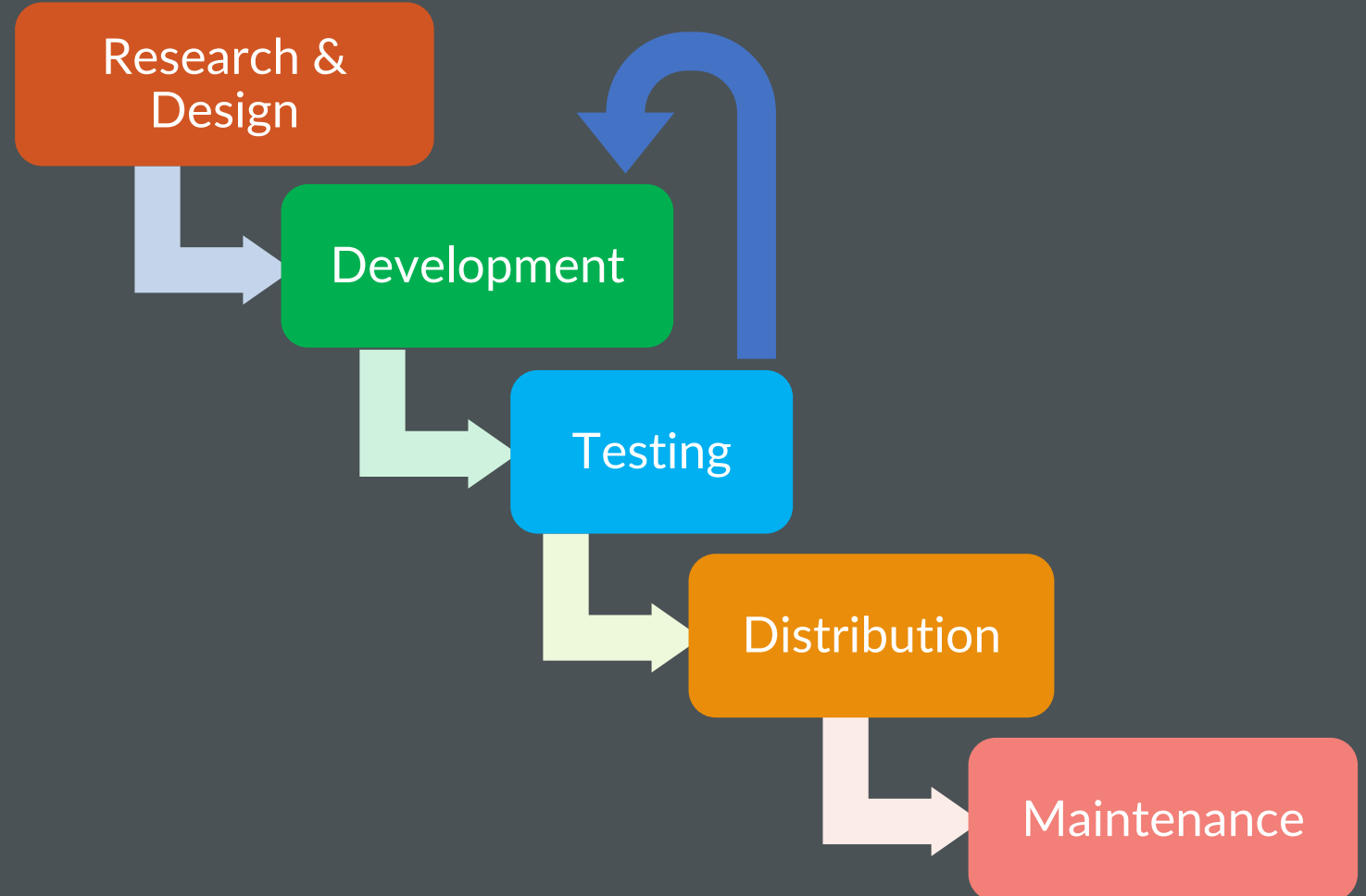
A Sequential Design Process
Progress is shown as flowing downwards through the stages.

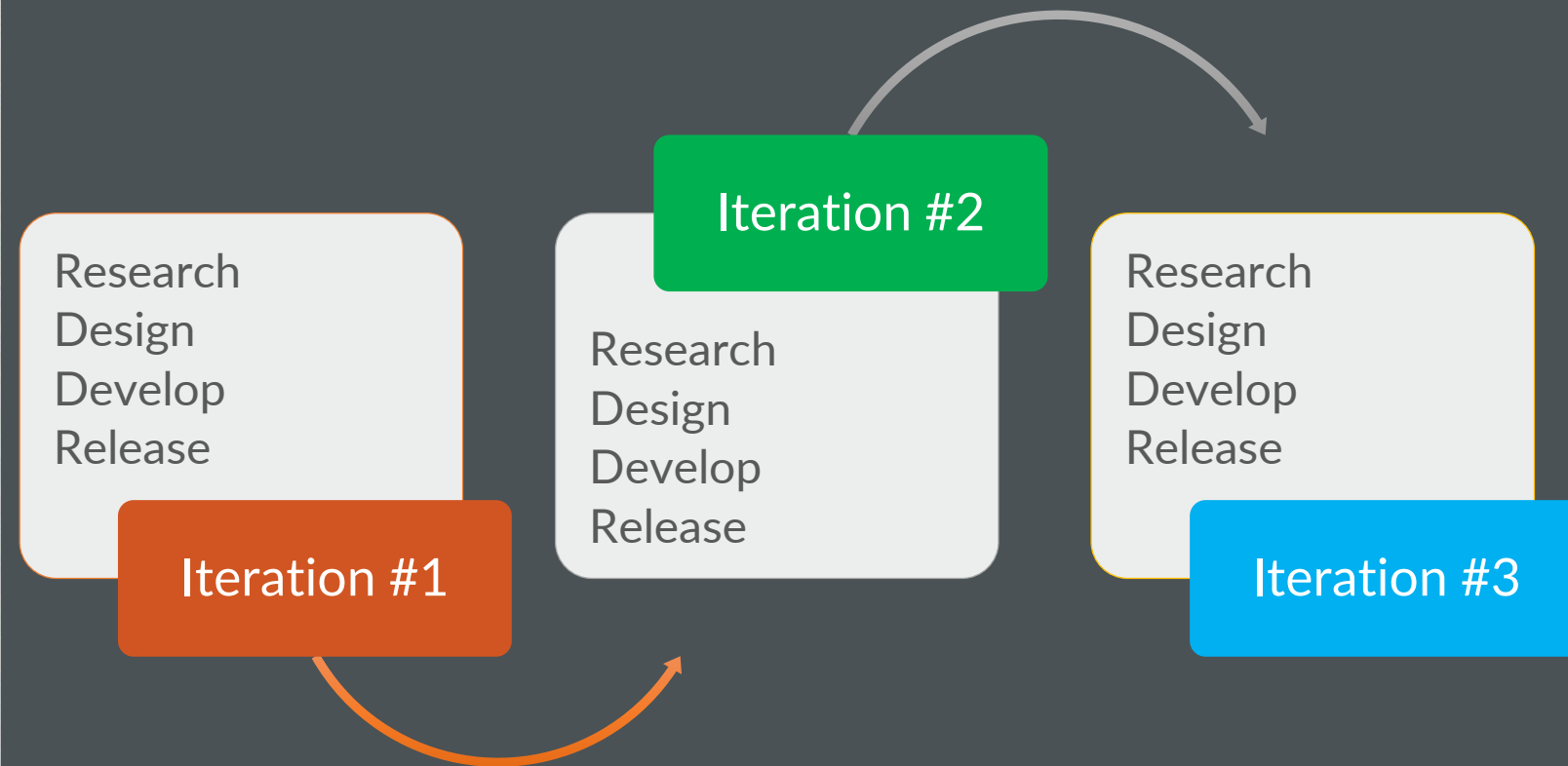
Suitable for Projects Where:

- Requirements are unlikely to change
- Product definition is stable
- Technology is Understood
- Project-Length is Short

Unsuitable for Projects Where:

- Technology is New
- Project-Length is Long
- Requirements Change Frequently





An Iterative Process

Progress is made by breaking the project into smaller increments. Each build is provided in the next iteration

Increment=Section

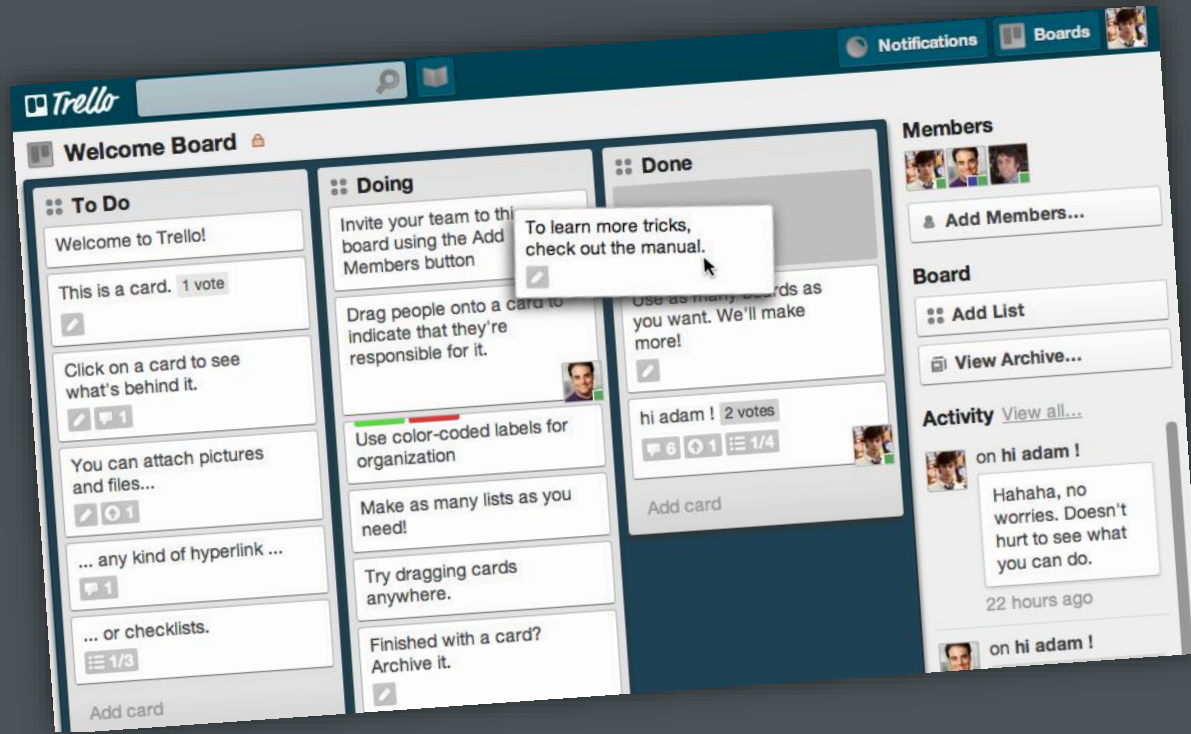
Suitable for Projects Where:

- Product definition is likely to change
- Project-Length is Medium

Unsuitable for Projects Where:

- Break-down of Tasks is unclear
- Commitment to Deadlines is Poor

App Development Life Cycle: Overview



Agile Model

- Rapid Development
- Working Software
- Co-operation of various roles
- Regular adaption to change in circumstances

Waterfall Model

- Simple & Easy to Implement
- Easy to Manage each Stage of Development
- Each Phase has a Set of Deliverables
- Each Stage is clearly laid out

Trello – Free To Use (App & Website)

- Keep Track of your Progress
- Break Down Big Problems into Small Tasks
- Rapid Development Achievable

Learning To Code



Loop the loop

Computers are fast!

Loops are blocks of code that repeat until reaching a defined finish.

For Loops

While Loops

```
FOR EACH (item)  
  IN LIST AddressList  
  DO send a msg
```

```
WHILE (Roll != 6)  
  DO Get a Random Number
```

WARNING: Be Wary of Infinite Loops!





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- ✓ Go To Shaw Academy's Facebook Page
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- ✓ Search **#ShawMADApp** to find Past Examples

#ShawMADApp



- ✓ Software Development Lifecycles
- ✓ Loops
- ✓ App Feature Integration

Congratulations you have taken the next step in **Android App Development!**

- Attend Lessons **LIVE** to ask **Questions** in real time and benefit the most
- We're here to help, so contact us anytime!
- mobile.app@shawacademy.com



The next session is “Storing Data with Apps”

Persistent Data

Adding a Database to your Project

Learning to Code

Taking it Further

Attend all of the lessons **LIVE** and your knowledge will grow

QUESTION TIME

See you back for **Lesson 5**
Storing Data with Apps



MAD Educator: Oisín Feely

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