

### **Stephen Robinson**

Lancaster University



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stephenrob Iulibrary



stephenrob.dev lulibrary.github.io



### Welcome!



Digital Developer - Projects & Operations
Digital Innovation & Research Services
Library & Learning Development

Cloud Architect / 'DevOps' Engineer / 'AWS Expert'
IT Partnering & Innovation
Information Systems Services



















Students



Staff

1200+ FTE Academic

600+ FTE Non-Academic



**Worldwide** China, Malaysia, Ghana

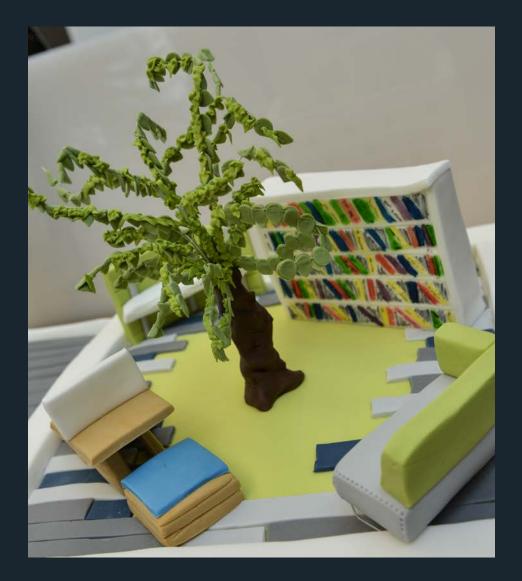


Teaching Excellence Framework



### **Library & Learning Development**

Digital Innovation & Research Services





#### **Research Support**

Supporting Open Access publishing, Research Data Management and Citation Analysis



#### **Unique & Distinctive Collections**

Increasing discoverability of our unique and distinctive collections making them available to all.



#### **Manage All Library Systems**

Ensuring availability of all library systems that support teaching, learning & research.



#### **Build Innovative Services**

Using technology and data to build new services that aim to improve and augment the user experience.



### **Information Systems Services**

#### IT Partnering & Innovation



#### **Purpose built computer centre**

The ISS building houses the majority of ISS staff alongside one of our on-premise data centers.



#### **IT Partnering**

Working with departments and professional services to enable them to get the best use out of technology.



#### **Institutional Mobile App**

Built on top of CampusM, iLancaster is our leading mobile app for students, staff and the community.



#### **Everything Else**

If it doesn't fit within the standard business as usual functionality of IT services.





### **ExLibris Products**

At Lancaster University



**Alma** 



Primo



Leganto



CampusM



## Innovation

Curating innovation in the library and across the institution



### **Our Vision**

Digital Innovation & Research Services



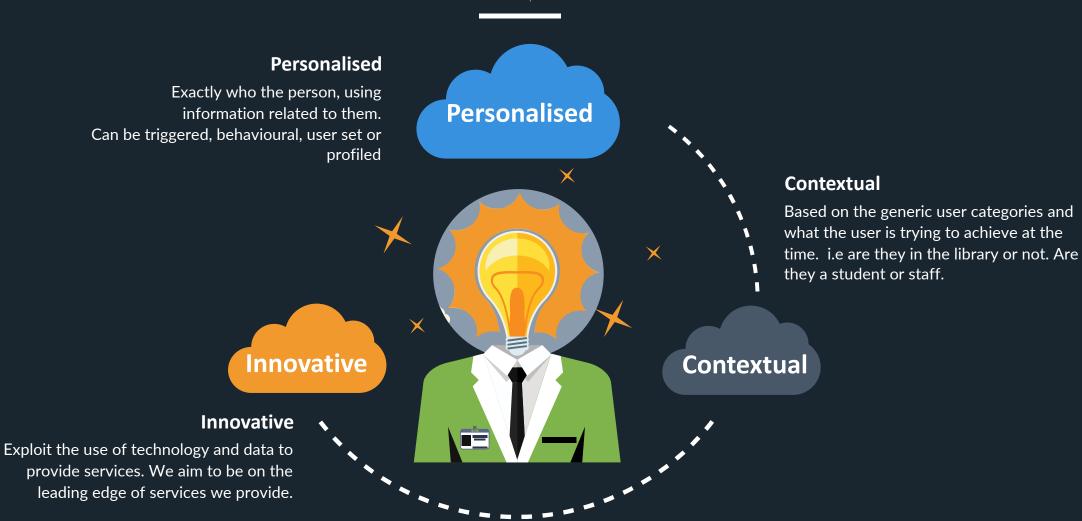






### **Intelligent User Services**

Services at the point of need





### **Choosing A Good Idea**



But where do we start?







# INNOVATION



### Is this valuable?



Does this provide value? Do our users really want this?













**CLOSING DATE 30TH JANUARY 2015** 

jolt.lancaster.ac.uk

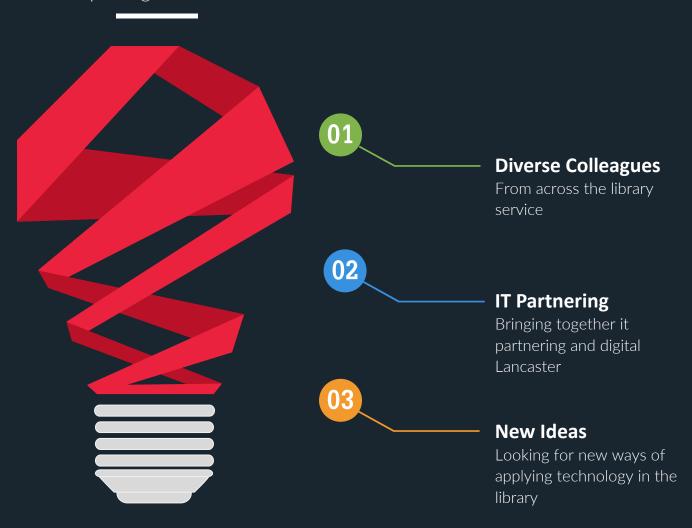
#lujolt

### **Library Innovation Workshop**

Exploring new ideas

#### 3 Amazing Ideas

- Auto class marking of eresources
- Helping people find study space in the library
- Intelligent suggestions of reading material





## My First Assignment

Scenarios of use

Essay #1 -----Due Next Friday



#### OneSearch

Finding some resources to help myself on OneSearch



#### Classmark

This seems important and seems to tell me where it is



#### Confusion

Where exactly is this item in the library. Can you help me find it?





# Time To Experiment

#### **20% TIME**

Giving our developers time to try out random things

#### **UNUSUAL**

Not business as usual projects Something different ... and generally fun

#### **PROTECTED**

Time is protected in each developers week to work on this together

#### **FAIL FAST**

Quick proof of concepts that allow us to fail fast





## **Quick Wins**

Just do it!





#### **HIGH IMPACT**

Showing we are responding to user suggestions and acting on them



#### **OPENING HOURS**

Showing the current day and weeks library opening hours on the website



#### **NO BRAINER**

Why aren't we already doing this



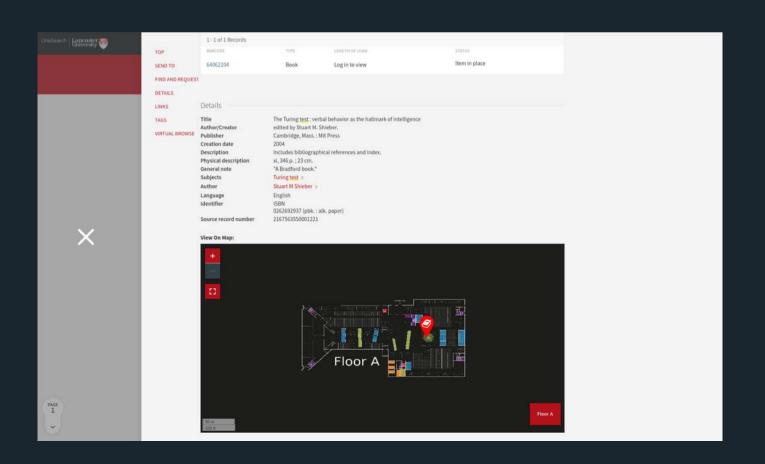
#### **DISCOVERY MAPS**

Helping users find things in our collection



### **OneSearch Maps**

Maps embedded on Primo



Summer 2017

#### **Student Internship Project**

Our first attempt of helping students navigate to library items within Primo.

- Navigation
- User Services



### **Evaluating Success**

Did we make a difference?





Surveys

Qualatative data from our users



Time

Are processes simpler and easier to do



**User Behaviour** 

How are users interacting with the new system or process



**Expectations** 

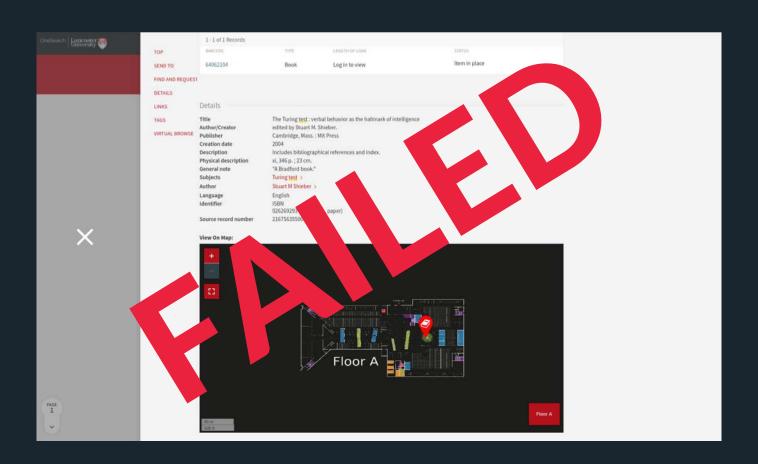
Have we met or exceeded what our users want

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## **OneSearch Maps**

Maps embedded on Primo



Summer 2017

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### **Championing Failure**

#### **ACCEPTANCE**

Accepting that failure happens and it is okay to do this

#### **LEARNING**

What can we do differently?

Are there parts of this we can re use?

#### **UNDERSTANDING**

What caused us to fail?

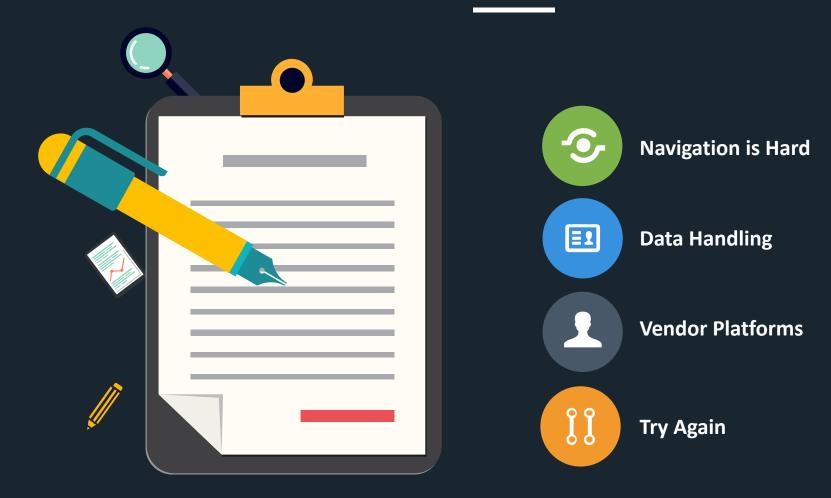
#### **SHARING KNOWLEDGE**

Disseminating knowledge across the library team and wider



### **Lessons Learned**

What did failure teach us?





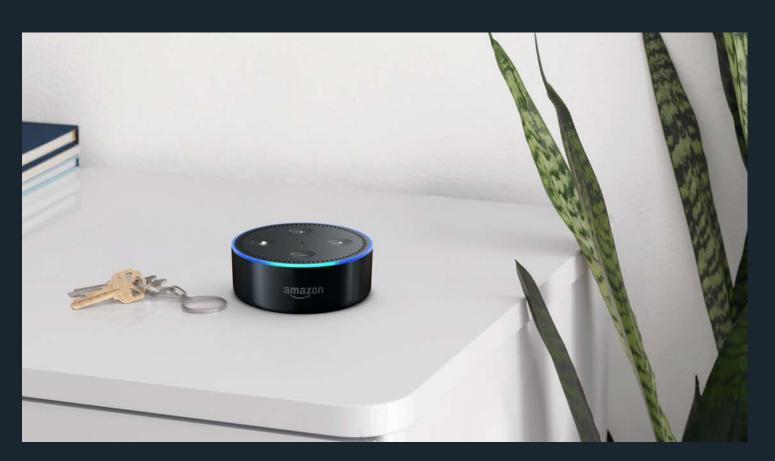
# Accessing Library Services

Looking at new ways our users can access what we provide



## Library Alexa Skill

Intelligent user services with Amazon Web Services



#### July 2018

#### **Digital Innovation & Research Services**

Our first attempt of building an Alexa Skill.

Using our API to provide an MVP of a Library Alexa Skill.

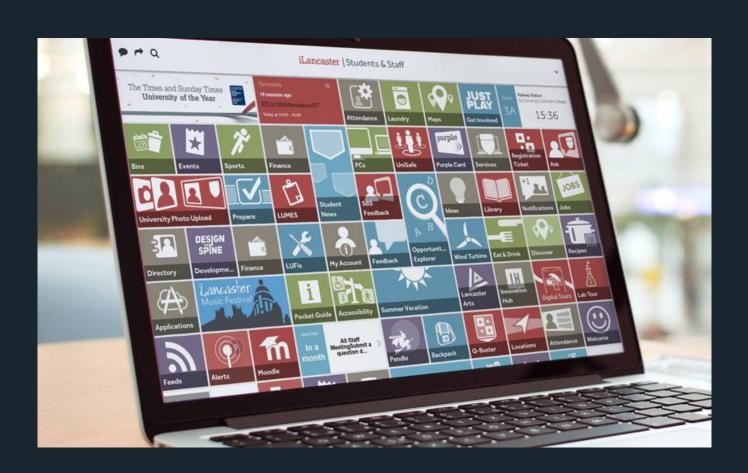
Makes use of AWS to provide the execution environment for the skill logic.

- Voice Technology
- User Services



### iLancaster Voice

Moving forward with across the institution



#### September 2018

#### IT Partnering & Innovation

Developing a 'Personal Digital Assistant' to support students with their studies and social life whilst at university. Providing personalised, contextual and intelligent information to the user at the point of need through voice and chat interfaces.

- → AWS Native Services
- → Institution Wide Project



Ask L.U.

Your digital companion



Find out more at lancaster.ac.uk/AskLU

Ask L.U.

Your digital companion



Find out more at lancaster.ac.uk/AskLU

Ask L.U.

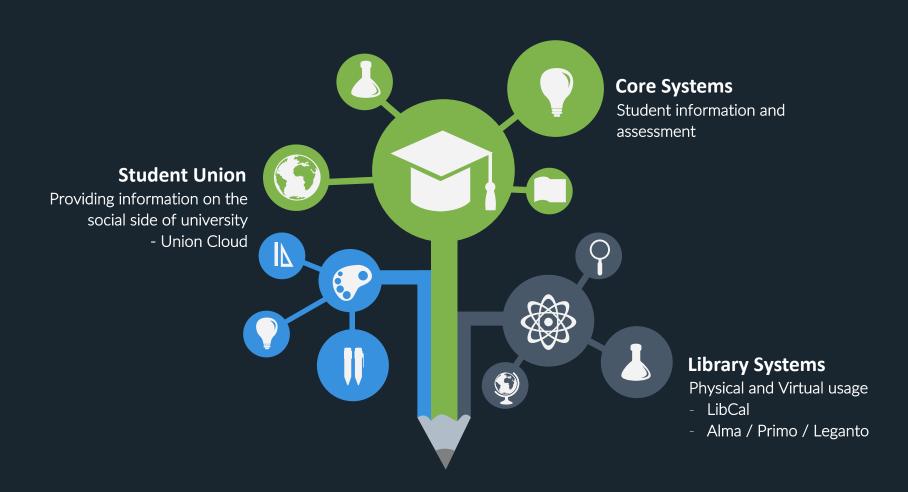
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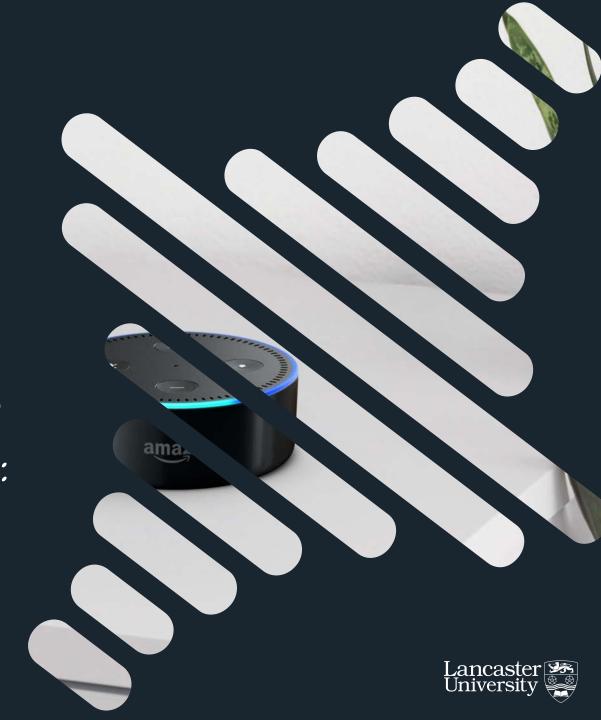
### Across the Institution

Combining data to provide a complete experience





How many loans do I have?



Are there any group study rooms free?



Can I book a group study room?



## The Future

Where's Ask LU going next?



### Where next?

Ask L.U. and the library



Renewing books that are due back soon

**RENEWALS** 



Paying library fines through in-skill purchasing

**FINE PAYMENT** 



Discovering new items through our discovery service

**SEARCHING** 



To suggest me something to read?



## Thinking about suggestions

Questions raised

1

#### Knowledge

How do we know what to suggest to the user?

4

#### **Display**

Where do we display the suggestions we have generated for a user?

2

#### Relevance

Are we going to make a relevant suggestion to them?

5

#### Auditing

How do we keep tracking of the suggestions?

3

#### Reliability

How do we build trust in the suggestions we make?

6

#### Approval & Buy in

What is needed to get approval and buy in from library and academic staff?





It is impossible to live without failing at something, unless you live so cautiously that you might as well not have lived at all, in which case you have failed by default.

-J.K. Rowling





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