

DigitalLabs@MMU  
Live Projects  
Investigations



Have you  
Registered?

# Follow Along!

Go to:

[www.github.com/alicedigitallabs](https://www.github.com/alicedigitallabs)

Click on:

SupportingLiveProjects\_2017

Click on:

Find file

Type:

workshop2

This file is:

docs/workshops/WORKSHOP2\_REQUIREMENTS1/investigations.pdf

Download the file to your desktop and open it.



# Hello!

# DigitalLabs@MMU



Hello!

- Laurie Cooper
- Dave Mee
- Stuart Bennet

# Hello!

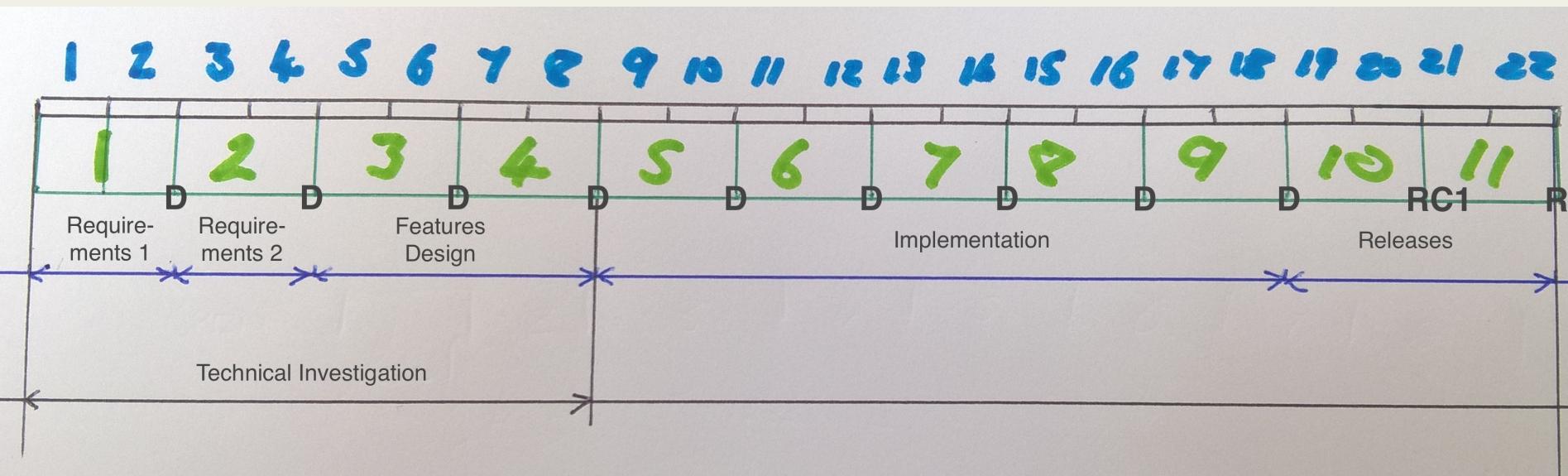
Alice

Alice is DigitalLabs' Support Entity:

- Contact Alice using your project identity
- Project Managers only
- Anyone else: if it's urgent, come to the shed

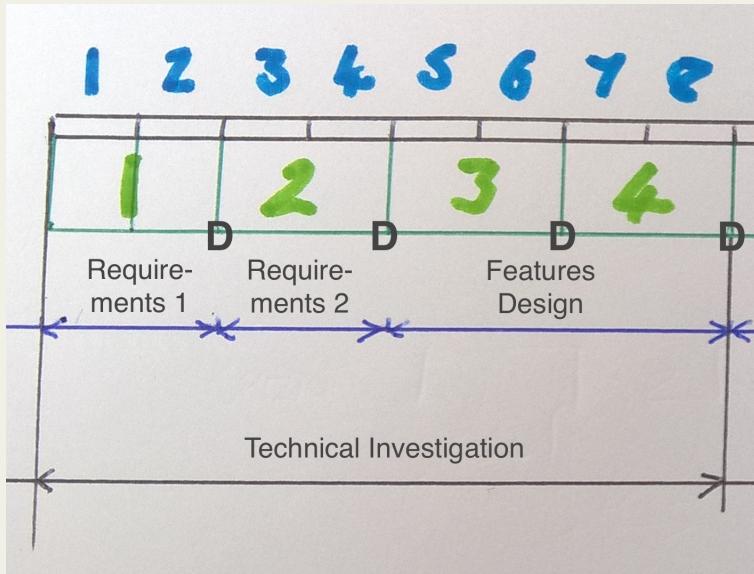


# The Plan



- Object: Produce an MVP from a client brief in 22 weeks
- Phases:
  - Prep
  - Implementation
  - Release
- Regular short sprints and deliveries

# The Plan



**Prep:**

**Timescale:**

8 weeks, 5 workshops, 4 deliveries.

**By the end:**

A workable, achievable design.

More Information?

See your [hand-out](#).

# Today

## First Delivery: Requirements 1

- Not long!
- How much we have to spend
- What to spend it on

# Today

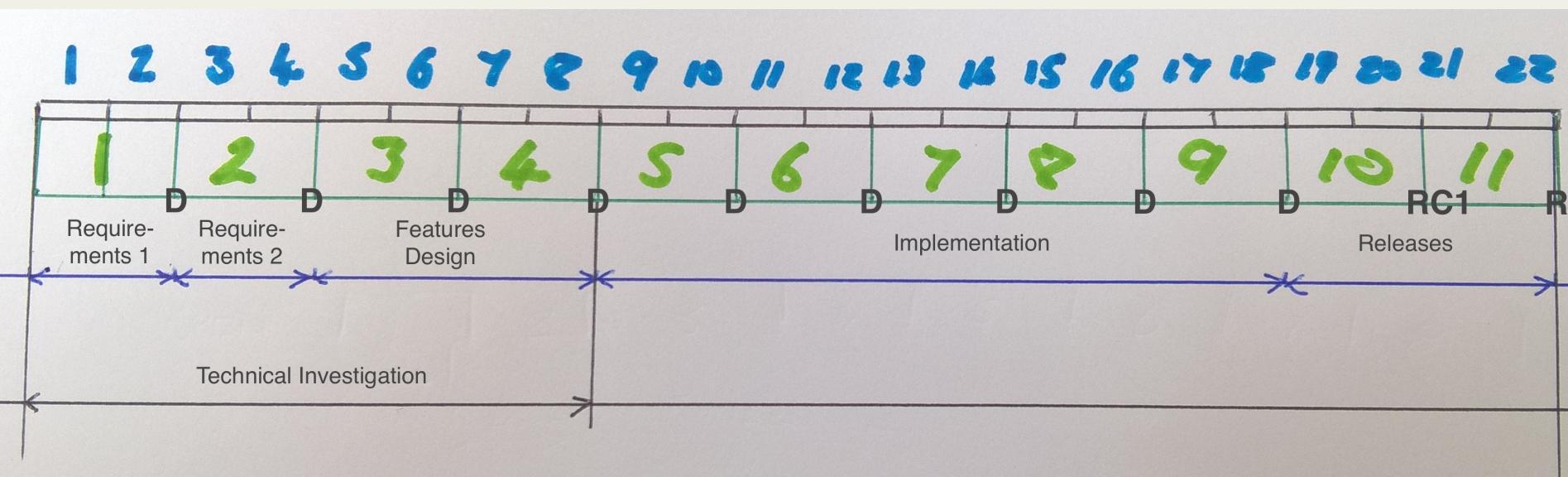
## First Delivery: Requirements 1

- First draft
- Budget your effort
- Break down your brief

# The Effort Budget

# The Effort Budget

## The Plan:



- Object: Produce an MVP from a client brief in 22 weeks
- Phases:
  - Prep
  - Implementation
  - Release

# The Effort Budget

## The Spreadsheet:

Investigation Requirements		81 Design												81 Implementation												142 Release		81	
Term	Term	Term	Term	Term	Term	Term	Term	Non-term	Non-term	Non-term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	Term	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22								
23/10/17	30/10/17	06/11/17	13/11/17	20/11/17	27/11/17	04/12/17	11/12/17	18/12/17	25/12/17	01/01/18	08/01/18	15/01/18	22/01/18	29/01/18	05/02/18	12/02/18	19/02/18	26/02/18	05/03/18	12/03/18	19/03/18								
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	None	None	None	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	None	None	None	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	None	None	None	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	None	None	None	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	
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You can find this locally in: <your\_project\_name>/docs/budget, but we will use it on-line right now.

# The Effort Budget

## The Spreadsheet:

### Project Managers

- Sign-in to the Project Identity on Google
- Go to [Google Sheets](#)
- Create a new Spreadsheet
- Import...
- Upload...
- Drag the <your\_project\_name>/docs/budget/effort\_commitment.xlsx onto the upload area
- The spreadsheet imports

# The Effort Budget

## The Spreadsheet:

### Project Managers

- Change Member Names on the Sheet
- Invite your Team Members to the Sheet
- (Use your Trello Board to give you contact information)
- Invite Alice to the Sheet

# The Effort Budget

## The Spreadsheet:

### Everyone

- The sheet is a representation of how much development effort is available from the whole team over the project
  - It helps with budgeting
  - As you get more understanding of the technologies you will be using, you can estimate how much functionality you will put into your product.
  - For more guidance, see the [handout](#)

# The Effort Budget

## The Spreadsheet:

### Everyone: 30 minutes

- Fill In the Sheet !
- How many hours have you got?
- Discuss some common activities (Like installing a dev system)
- Think about what you can get done in a week
- Think about what your team can get done in a week

# The Effort Budget

## The Spreadsheet:

### Project Managers

- Export the Google Sheet (Save As...)
- Replace the original in your project structure
- Check it in



# Briefs

# Briefs

## Early Brainstorming, and Questions

### **Everyone: 30 minutes**

- Crack out an early sketch of your ideas
  - Features (Significant pieces of functionality)
  - Conformant to the brief
- Use pencils and the paper provided
- Keep the good stuff

A photograph of a paraglider in flight against a clear blue sky. The paraglider's canopy is a vibrant red color with yellow and white stripes along the leading edge. A metal frame cart is suspended from the center of the canopy by several orange lines. The cart has a small basket and two black wheels. The word "Boards" is overlaid in large, bold, black sans-serif font.

Boards

# Boards

## Trello

### **Project Managers:**

- Login to Trello, using your Project Identity
- Create the following boards
  - Discussion
  - Features
  - Implementation
  - Investigations
- Link to boards from Project Overview: Resources list

# Boards

## Trello

### **Project Managers:**

- Invite your team members to the boards
- Make SURE Alice is in your team
- Make SURE Alice is added to the board

# Boards

## Trello

### **Project Managers:**

- Investigations Board. Create Lists:
  - To Do
  - Pending
  - Done

# Boards

## Trello

### **Everyone:**

- Make sure you have installed [Scrum For Trello](#)

# Discussion

## Trello

### **Team: 15 minutes (while eating pizza)**

- Discuss which of your ideas ‘work’.
- Take pictures of your ideas
  - *you can use a Trello App for this*
- Upload them to cards on your Trello ‘Discussion’ Board
  - *One Card Per Pic*
  - *Organise the board for clarity*

# Delivery

# Delivery

Remember the plan:

- interpret our brief
- compromise
  - useful implementation  
with the effort available
- we are beginning that  
process: gathering  
knowledge

# Delivery

## Requirements: Draft 1

- little investigation
- completely describe your product
- relatively high level
- still another sprint after this

# Delivery

## Requirements: Draft 1

### Features Board:

- Break down your product into features
- A feature is any piece of significant functionality
- One Feature Per Card

# Delivery

## Requirements: Draft 1

Implementations Board:

- Describes how a feature will be implemented
- Link to a feature card
- High (ish) level

# Delivery

## Requirements: Draft 1

How do we get from Feature  
to Implementation?

- Guess ✗
- Investigate ✓

Investigation informs your  
implementation decision

# Delivery

## Requirements: Draft 1

Investigations Board:

- List: 'ToDo'
- List: 'Pending'
- List: 'Done'

# Delivery

## Requirements: Draft 1

Describe investigations to be done:

- One per card
- Add to ‘To Do’ List

# Delivery

## Requirements: Draft 1

Examples:

- How to set up an IDE / SDK
- Bluetooth connection from Pi to Phone
- How to install OpenWRT
- What is REST?
- How do I make a Backend?

# Delivery

## Requirements: Draft 1

Move an investigation into  
‘Pending’:

- Assign a team member
- Estimate how long
- Use Scrum For Trello
- Do it

# Delivery

## Requirements: Draft 1

Do the investigation

- Check-in any code
- Check-in a worklog
- Link to code
- Link to web pages

# Delivery

## Requirements: Draft 1

Move an Investigation into  
‘Done’

- How long did it take?
- Use Scrum For Trello

# Delivery

## Requirements: Draft 1

Move an Investigation into  
‘Done’

- How long did it take?
- Use Scrum For Trello

# Delivery

## Requirements: Draft 1

Make an Implementation decision:

- Create a Card in ‘Implementations’
- Link to a Feature card
- Make a Statement
- Link to a backing Investigation card.

# Delivery

## Requirements: Draft 1

Make your delivery:

- Complete, high level description
- As many investigations as possible
- Create a delivery document
- Mail to Alice

# Delivery

## Requirements: Draft 1

### **Everyone: 30 minutes**

- Start working on your delivery
- Ask lots of questions



# Next Time

# Next Time

## Requirements 2

The next workshop date and time is available [here](#):

- We will be helping ready you for delivery of Requirements 2
- We will be releasing a how-to for Requirements 2 THIS WEEK