

DigitalLabs@MMU
Live Projects
Investigations

A paraglider with a large, colorful canopy (red, yellow, and blue) is shown from a low angle, flying towards the viewer. The basket is visible at the bottom, suspended by lines. The background is a clear, light blue sky.

Have you Registered?

Follow Along!

Go to:

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!

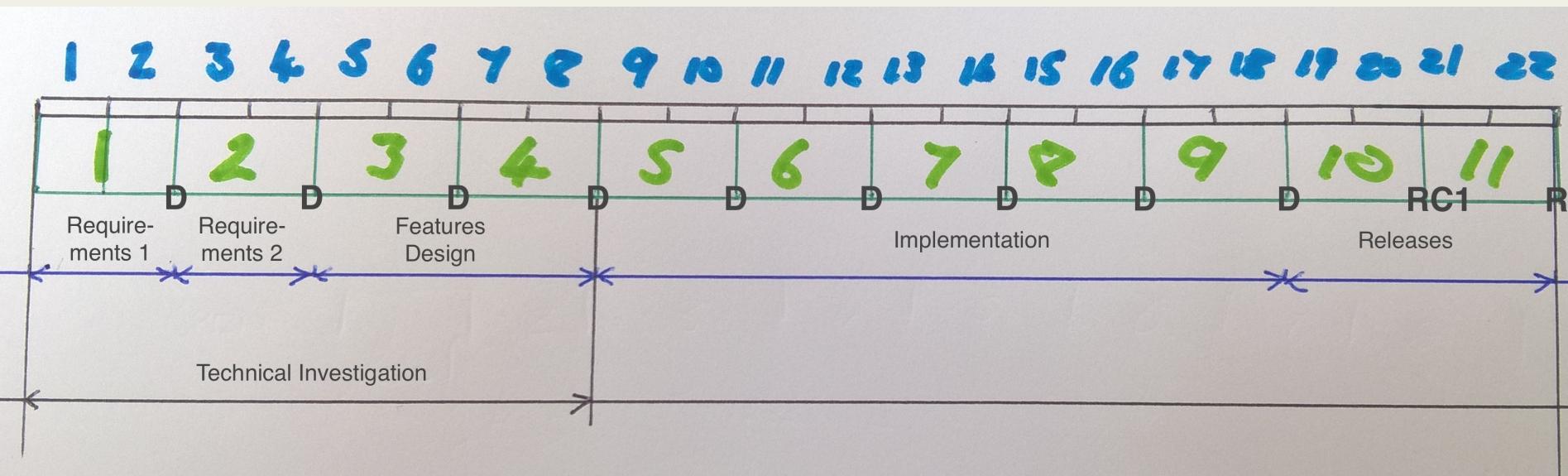
Alice

Alice is DigitalLabs' Support Entity:

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

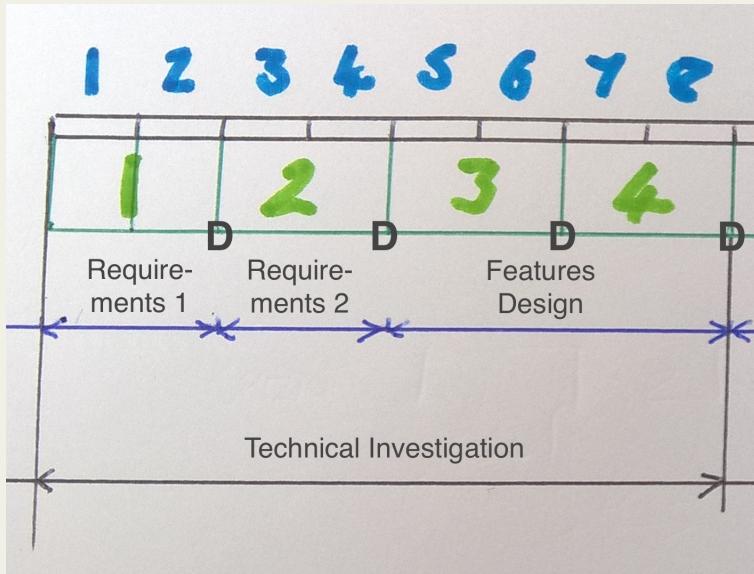


The Plan



- 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.

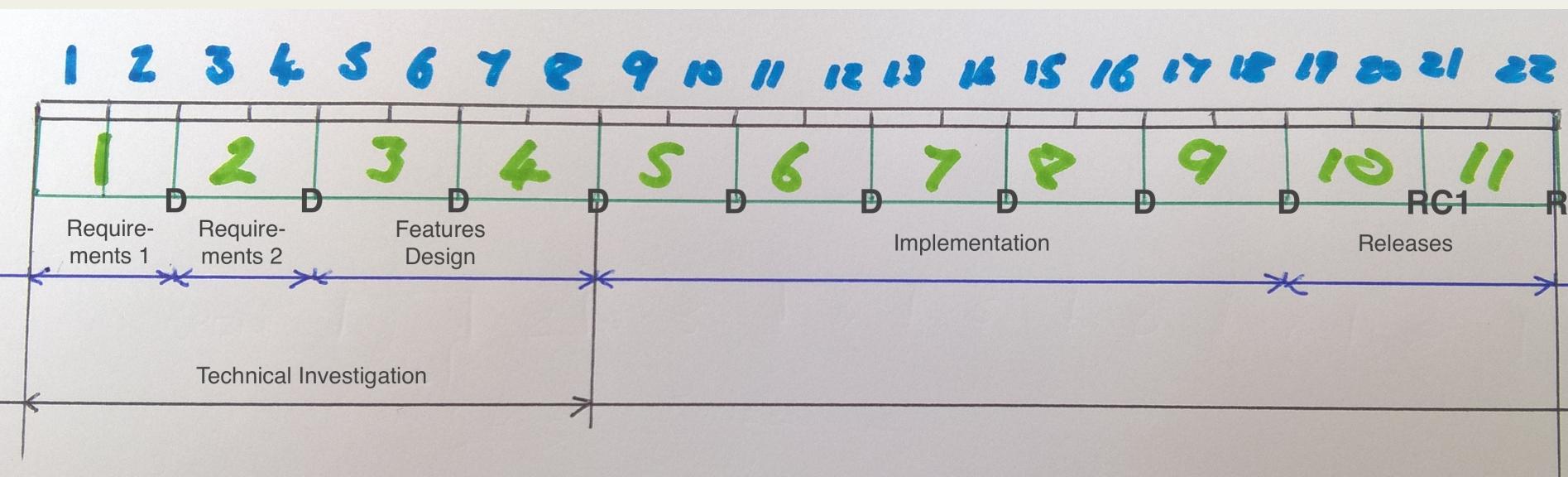
More Information?

See your [hand-out](#).

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	23	24	25	26	27	28		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
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	23/03/18	30/03/18	06/04/18	13/04/18	20/04/18	27/04/18		
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	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	

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 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 app.
 - For more guidance, see the [handout](#)

The Effort Budget

The Spreadsheet:

Everyone

- 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



Briefs

Briefs

Early Brainstorming, and Questions

30 minutes:

- Crack out an early sketch of your ideas
- 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. Create Lists:
 - To Do
 - Pending
 - Done

Boards

Trello

Everyone:

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

Discussion

Trello

Team:

- 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 ✓

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



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