

ProjectAble iPhone Application

ProjectAble



A helpful Project Management app,
providing quick accurate and reliable
project status and forecasting with minimal
data input

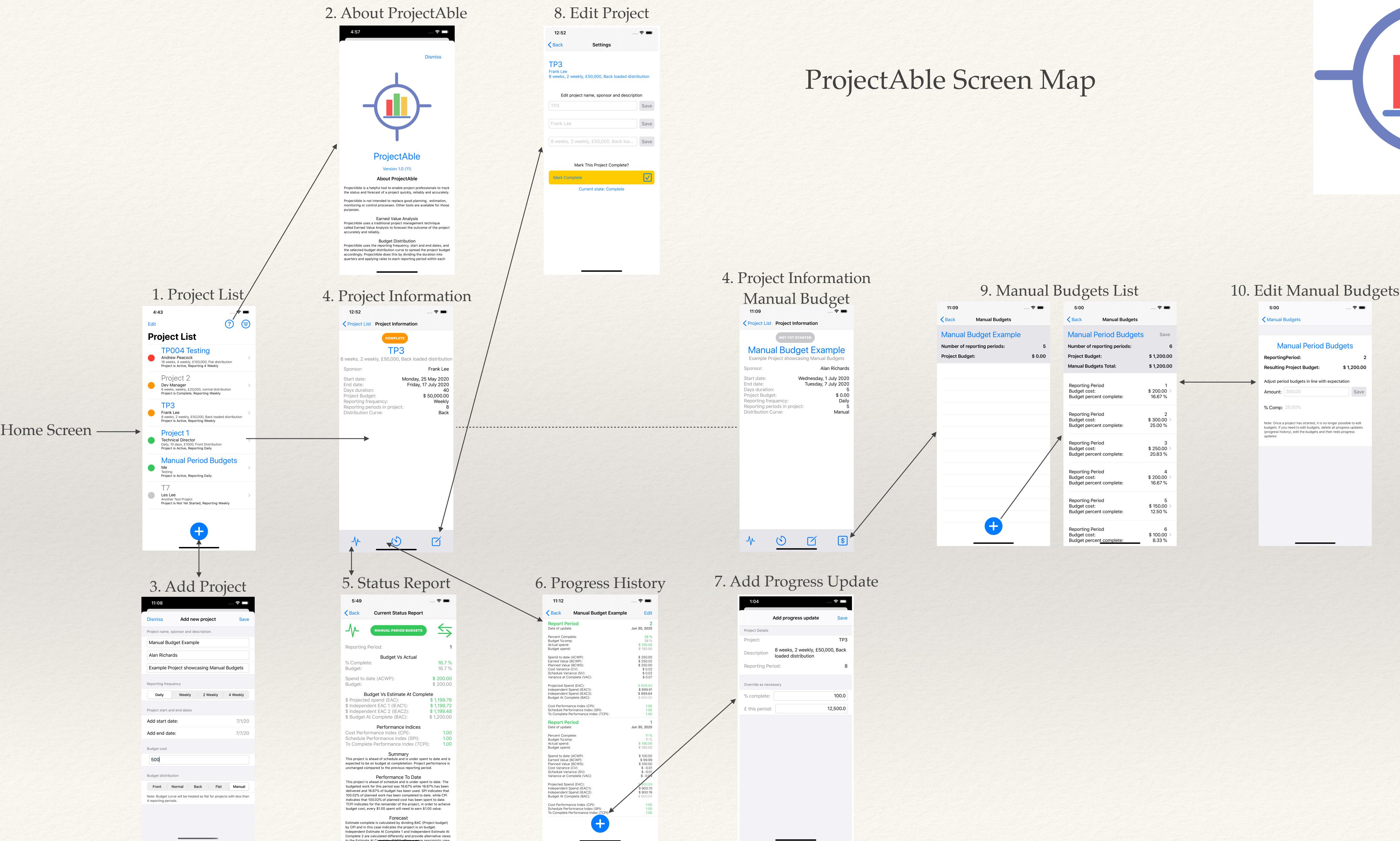
Created by: Mark Brown

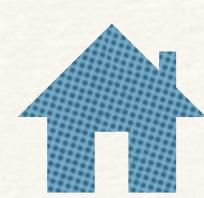
Contact: mark.brown@aleynmoor.co

1st July 2020



ProjectAble Screen Map





ProjectAble

When the app opens, the first screen you see is 'Project List'.

RAG Status indicator

RAG Status Colour Key

- - On budget, on schedule
- - Up to 5% over budget or behind schedule
- - 5% or more over budget or behind schedule
- - Irrecoverable budget or schedule
- - Not Yet Started or Completed



4:43

Edit

Project List

TP004 Testing
Andrew Peacock
16 weeks, 4 weekly, £100,000, Flat distribution
Project is Active, Reporting 4 Weekly

Project 2
Dev Manager
6 weeks, weekly, £20,000, normal distribution
Project is Complete, Reporting Weekly

TP3
Frank Lee
8 weeks, 2 weekly, £50,000, Back loaded distribution
Project is Active, Reporting Weekly

Project 1
Technical Director
Daily, 10 days, £1000, Front Distribution
Project is Active, Reporting Daily

Manual Period Budgets
Me
Testing
Project is Active, Reporting Daily

T7
Les Lee
Another Test Project
Project is Not Yet Started, Reporting Weekly

+

Project List Filter

Tap a project to go to the project information view

1:32

Project List

TP004 Testing
Andrew Peacock
16 weeks, 4 weekly, £100,000, Flat distribution

Project 2
Dev Manager
6 weeks, weekly, £20,000, normal distribution

TP3
Frank Lee
8 weeks, 2 weekly, £50,000, Back loaded distribution

Project 1
Technical Director
Daily, 10 days, £1000, Front Distribution

Mv New Project
Choose Filter
Select a filter option

Active

Not Yet Started

Complete

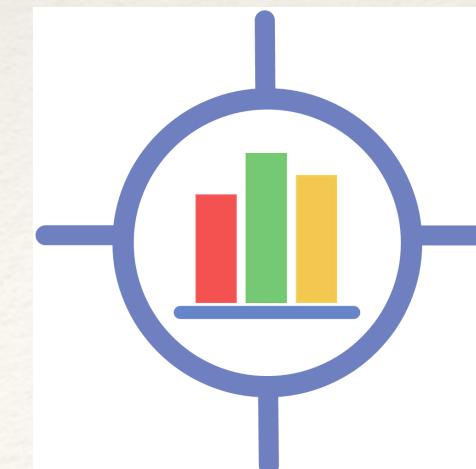
Show all

Cancel

Project Status Colour Key

- Active = RAG, project name
- Completed = RAG, project name
- Not Yet Started = RAG, project name

Add new project button





ProjectAble

When the app opens, the first screen you see is 'Project List'.

RAG Status indicators

RAG Status Colour Key

- - On budget, on schedule
- - Up to 5% over budget or behind schedule
- - 5% or more over budget or behind schedule
- - Irrecoverable budget or schedule
- - Not Yet Started or Completed



4:43

Edit



Project List

TP004 Testing

Andrew Peacock
16 weeks, 4 weekly, £100,000, Flat distribution
Project is Active, Reporting 4 Weekly

Project 2

Dev Manager
6 weeks, weekly, £20,000, normal distribution
Project is Complete, Reporting Weekly

TP3

Frank Lee
8 weeks, 2 weekly, £50,000, Back loaded distribution
Project is Active, Reporting Weekly

Project 1

Technical Director
Daily, 10 days, £1000, Front Distribution
Project is Active, Reporting Daily

Manual Period Budgets

Me
Testing
Project is Active, Reporting Daily

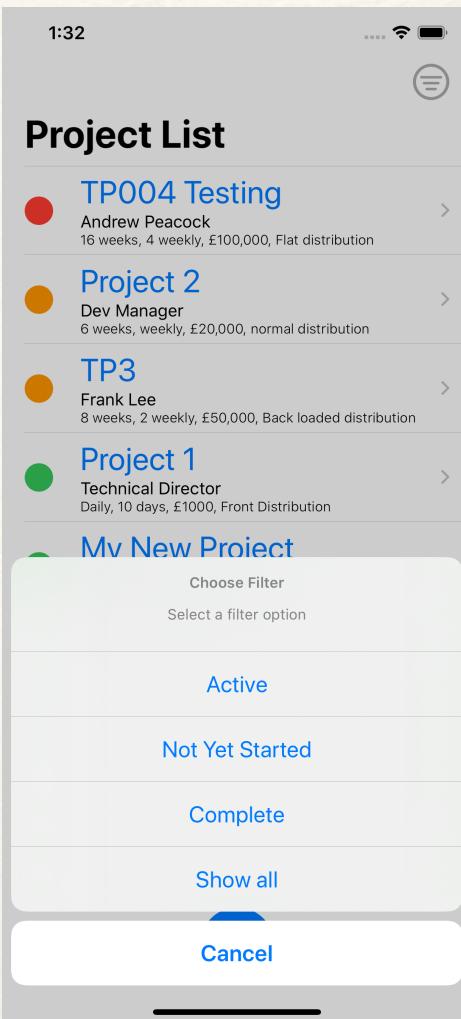
T7

Les Lee
Another Test Project
Project is Not Yet Started, Reporting Weekly



Project List Filter

Tap a project to go to the project information view

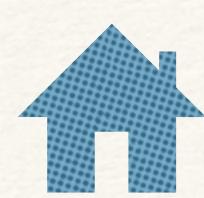


Project Status Colour Key

- Completed = RAG, Project name
- Active = RAG, Project name
- Not Yet Started = RAG, Project name



Add new project button



ProjectAble - Add Project

Input a project name, sponsor or change owner and a description

Select Start and End dates

Form issues:

- Tap the date rows to show and hide the date pickers

Select a budget distribution curve.

This enables ProjectAble to more closely match the pace of work of your project

11:08

Dismiss Add new project Save

Project name, sponsor and description.

Manual Budget Example

Alan Richards

Example Project showcasing Manual Budgets

Reporting frequency

Daily Weekly 2 Weekly 4 Weekly

Project start and end dates

Add start date: 7/1/20

Add end date: 7/7/20

Budget cost

500

Budget distribution

Front Normal Back Flat Manual

Note: Budget curve will be treated as flat for projects with less than 4 reporting periods.

The Save button is enabled once the form is complete

Select a reporting frequency

Add the estimated budget

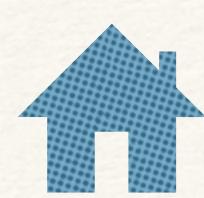
Form issues:

- The budget cost field uses a number keyboard. Tap the field to show or hide the keyboard

Notes:

1. The form issues mentioned will be resolved but exist due to some current limitations with the interface





ProjectAble - Project Information

The 'Project Information' view is the 'hub' of the project

Here you can see the information you used to create the project and you also get to see:

- The duration (days) of the project
- How many reporting periods are planned

6:01

Project List Project Information

ACTIVE

TP3

8 weeks, 2 weekly, £50,000, Back loaded distribution

Sponsor: Frank Lee

Start date: Monday, 25 May 2020

End date: Friday, 17 July 2020

Days duration: 40

Project Budget: \$ 50,000.00

Reporting frequency: Weekly

Reporting periods in project: 8

Distribution Curve: Back

Heartbeat button

Timer button

Edit button

Manual Budgets button

Information	Value
Sponsor	Frank Lee
Start date	Monday, 25 May 2020
End date	Friday, 17 July 2020
Days duration	40
Project Budget	\$ 50,000.00
Reporting frequency	Weekly
Reporting periods in project	8
Distribution Curve	Back

The 'Heartbeat' button takes you to the Project Status Report

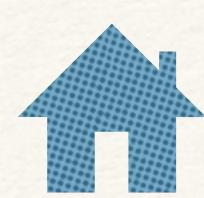
The Project and RAG statuses are shown in a single status view



The 'Timer' button takes you to Progress History

The 'edit' button takes you to about ProjectAble

The Manual Budgets Button is displayed only when a project is using manual budgets



ProjectAble - Project Status Report

The 'Status Report' view is the 'heartbeat' of the project. This shows project performance based on the most recent update.

Budget Vs Actual

- % Complete is the value accepted or input in the progress update and the budget shows the expected %comp
- Spend to date is the cumulative spend to date and the budget shows the estimated spend to date

Performance Indices

- CPI indicate is a project is on, under or over budget. (**CPI < 1 is Over Budget**)
- SPI indicates if the project is on, behind or ahead of schedule. (**SPI < 1 is behind schedule**)
- TCPI indicates the overall performance (**TCPI > 1 indicates the level of performance required now to achieve the original budgets**)

5:49 ...

[Back](#) Current Status Report

MANUAL PERIOD BUDGETS

Reporting Period: 1

Budget Vs Actual

% Complete:	16.7 %
Budget:	16.7 %
Spend to date (ACWP):	\$ 200.00
Budget:	\$ 200.00

Budget Vs Estimate At Complete

\$ Projected spend (EAC):	\$ 1,199.76
\$ Independent EAC 1 (IEAC1):	\$ 1,199.72
\$ Independent EAC 2 (IEAC2):	\$ 1,199.48
\$ Budget At Complete (BAC):	\$ 1,200.00

Performance Indices

Cost Performance Index (CPI):	1.00
Schedule Performance Index (SPI):	1.00
To Complete Performance Index (TCPI):	1.00

Summary
This project is ahead of schedule and is under spent to date and is expected to be on budget at completion. Project performance is unchanged compared to the previous reporting period.

Performance To Date
This project is ahead of schedule and is under spent to date. The budgeted work for this period was 16.67% while 16.67% has been delivered and 16.67% of budget has been used. SPI indicates that 100.02% of planned work has been completed to date. while CPI indicates that 100.02% of planned cost has been spent to date. TCPI indicates for the remainder of the project, in order to achieve budget cost, every \$1.00 spent will need to earn \$1.00 value.

Forecast
Estimate complete is calculated by dividing BAC (Project budget) by CPI and in this case indicates the project is on budget. Independent Estimate At Complete 1 and Independent Estimate At Complete 2 are calculated differently and provide alternative views to the Estimate At Complete. IEAC2 offers a more pessimistic view

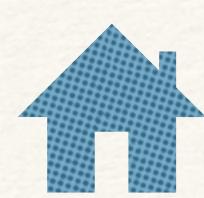
The Project and RAG status is reflected in

- Left: The Heartbeat
- Centre: Project Name
- Right: The Trend Indicator Arrows
- The current Reporting Period

Budget Vs Estimate At Complete

Projected spend (EAC) shows the forecast final spend based on performance to date. IEAC1 and IEAC2 provide independent views on the EAC
Budget At Complete is the original budget input when the project was created





ProjectAble - Project Status Report

The 'Status Report' view is the 'heartbeat' of the project. This shows project performance based on the most recent update.

Summary

- A precise of project status and cost and reference to performance trend.

Forecast

- Provides narrative around EAC. IEAC1 and IEAC2 provide alternative, independent estimates at complete which combined, give a range from optimistic to pessimistic and within which, the end cost of the project is likely to fall.

5:50

Current Status Report

Reporting Period: 1

Budget Vs Actual

% Complete:	16.7 %
Budget:	16.7 %

Spend to date (ACWP): \$ 200.00

Budget:	\$ 200.00
---------	-----------

Budget Vs Estimate At Complete

\$ Projected spend (EAC):	\$ 1,199.76
\$ Independent EAC 1 (IEAC1):	\$ 1,199.72
\$ Independent EAC 2 (IEAC2):	\$ 1,199.48
\$ Budget At Complete (BAC):	\$ 1,200.00

Performance Indices

Cost Performance Index (CPI):	1.00
Schedule Performance Index (SPI):	1.00
To Complete Performance Index (TCPI):	1.00

Summary
This project is ahead of schedule and is under spent to date and is expected to be on budget at completion. Project performance is unchanged compared to the previous reporting period.

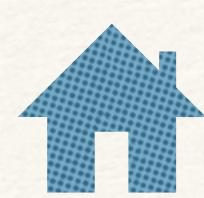
Performance To Date
This project is ahead of schedule and is under spent to date. The budgeted work for this period was 16.67% while 16.67% has been delivered and 16.67% of budget has been used. SPI indicates that 100.02% of planned work has been completed to date. while CPI indicates that 100.02% of planned cost has been spent to date. TCPI indicates for the remainder of the project, in order to achieve budget cost, every \$1.00 spent will need to earn \$1.00 value.

Forecast
Estimate complete is calculated by dividing BAC (Project budget) by CPI and in this case indicates the project is on budget. Independent Estimate At Complete 1 and Independent Estimate At Complete 2 are calculated differently and provide alternative views to the Estimate At Complete. IEAC2 offers a more pessimistic view than IEAC1.



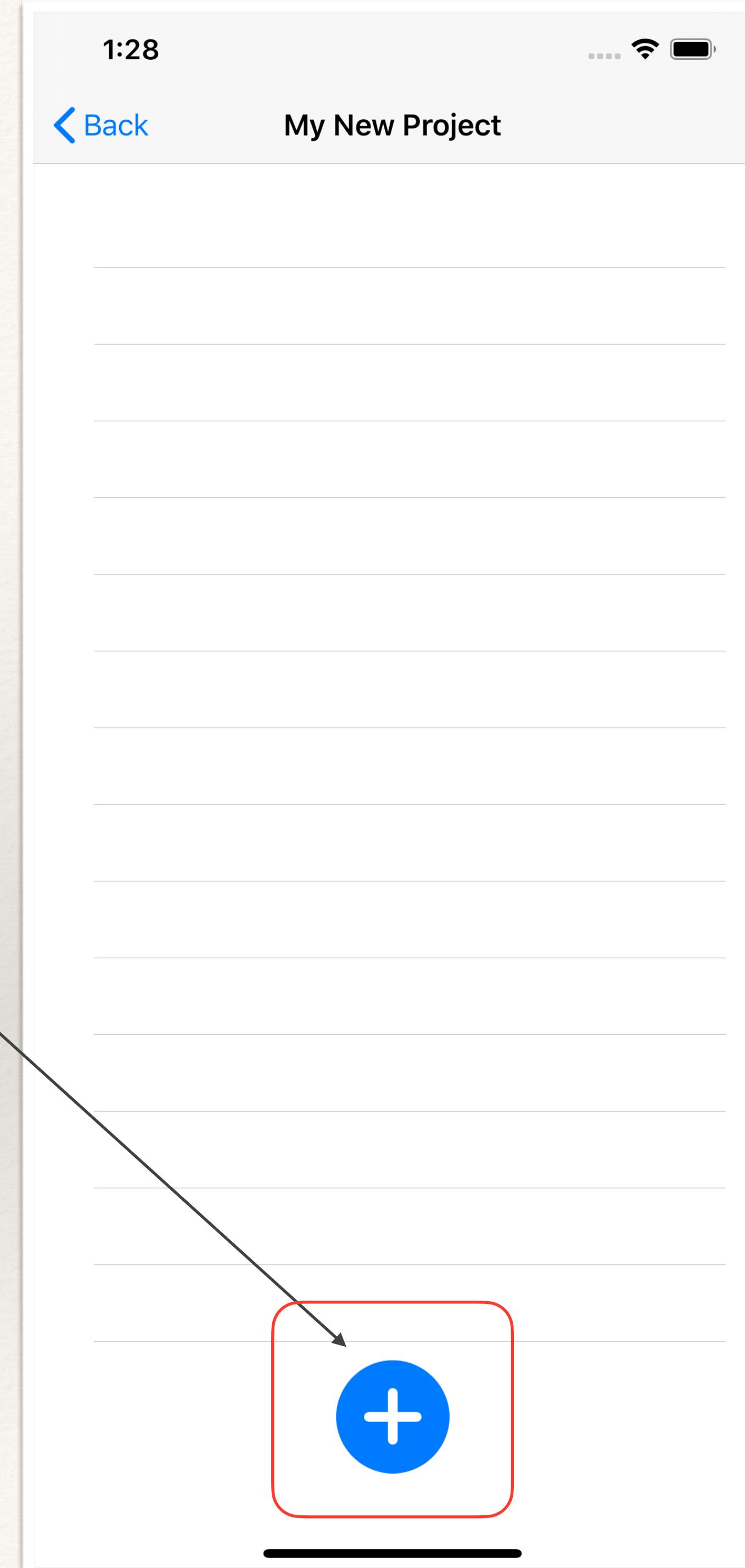
Performance To Date

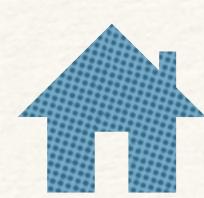
Provides some narrative around current performance by referencing Percent Complete, Schedule Performance Index, Cost Performance Index and To Complete Performance Index.



ProjectAble - Progress History

The 'Progress History' view is empty
the first time you come to it.
Press the Blue 'Add' button to create a
progress update





ProjectAble - Add Progress Update

These Two fields provide all the update requires from the user.

If all is on schedule / budget, simply hit 'Save'. Otherwise, update the % Comp and £ This period fields and then hit 'Save'.

ProjectAble will then perform the earned value analysis and update the Progress History

1:04

Add progress update Save

Project Details

Project: TP3

Description: 8 weeks, 2 weekly, £50,000, Back loaded distribution

Reporting Period: 8

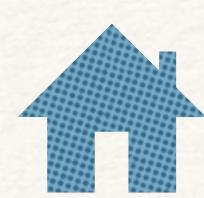
Override as necessary

% complete: 100.0

£ this period: 12,500.0

The upper section of the form is for information only.





ProjectAble - Progress History

Bear in mind that the three indices are can be on target, better than target or worse than target.

CPI > 1.0 is under budget

CPI = 1.0 is on budget

CPI < 1.0 is under budget

SPI > 1.0 is ahead of schedule

SPI = on schedule

SPI < behind schedule

TCPI > 1.0 indicates the project is inefficient

TCPI = 1.0 performing efficiently

TCPI < 1.0 indicates better than expected efficiency

11:12

Back Manual Budget Example Edit

Report Period	2
Date of update:	Jun 30, 2020
Percent Complete:	28 %
Budget %comp:	28 %
Actual spend:	\$ 150.00
Budget spend:	\$ 150.00
Spend to date (ACWP):	\$ 250.00
Earned Value (BCWP):	\$ 250.02
Planned Value (BCWS):	\$ 250.00
Cost Variance (CV):	\$ 0.02
Schedule Variance (SV):	\$ 0.02
Variance at Complete (VAC):	\$ 0.07
Projected Spend (EAC):	\$ 899.93
Independent Spend (IEAC1):	\$ 899.91
Independent Spend (IEAC2):	\$ 899.84
Budget At Complete (BAC):	\$ 900.00
Cost Performance Index (CPI):	1.00
Schedule Performance Index (SPI):	1.00
To Complete Performance Index (TCPI):	1.00
Report Period	1
Date of update:	Jun 30, 2020
Percent Complete:	11 %
Budget %comp:	11 %
Actual spend:	\$ 100.00
Budget spend:	\$ 100.00
Spend to date (ACWP):	\$ 100.00
Earned Value (BCWP):	\$ 99.99
Planned Value (BCWS):	\$ 100.00
Cost Variance (CV):	\$ -0.01
Schedule Variance (SV):	\$ -0.01
Variance at Complete (VAC):	\$ -0.09
Projected Spend (EAC):	\$ 900.09
Independent Spend (IEAC1):	\$ 900.10
Independent Spend (IEAC2):	\$ 900.19
Budget At Complete (BAC):	\$ 900.00
Cost Performance Index (CPI):	1.00
Schedule Performance Index (SPI):	1.00
To Complete Performance Index (TCPI):	1.00

The progress history view contains all progress updates for the project in reverse chronological order.

This is where you can see the historic performance of the project and see the trend across the entire project to date.





ProjectAble - Manual Period Budgets

ProjectAble provides the ability to set the budget distribution manually. This gives the user the ability to plan spend more accurately but requires additional steps to setup the project.

11:08

Dismiss Add new project Save

Project name, sponsor and description.

Manual Budget Example

Alan Richards

Example Project showcasing Manual Budgets

Reporting frequency

Daily Weekly 2 Weekly 4 Weekly

Project start and end dates

Add start date: 7/1/20

Add end date: 7/7/20

Budget cost

500

Budget distribution

Front Normal Back Flat **Manual**

Note: Budget curve will be treated as flat for projects with less than 4 reporting periods.

To use Manual Budget Distribution, you must select 'Manual' for the budget distribution picker.

Note: You still need to add a budget cost as this will be used as placeholder when the period budget records are created





ProjectAble - Project Information

Here you can see the information you used to create the project and you also get to see:

- The distribution curve is set to 'Manual'

11:09

Project List Project Information

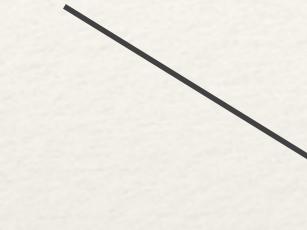
NOT YET STARTED

Manual Budget Example

Example Project showcasing Manual Budgets

Sponsor:	Alan Richards
Start date:	Wednesday, 1 July 2020
End date:	Tuesday, 7 July 2020
Days duration:	5
Project Budget:	\$ 0.00
Reporting frequency:	Daily
Reporting periods in project:	5
Distribution Curve:	Manual

The manual budgets button is enabled





ProjectAble - **Manual Budgets List**

Initially on entering the manual budgets list, the list is empty. You are given the number of reporting periods and the budget is set to zero. That is because this budget figure is driven from the period budgets.

11:09

Back Manual Budgets

Manual Budget Example

Number of reporting periods: 5

Project Budget: \$ 0.00

+

Click the 'Add' button to create the period budgets





ProjectAble - **Manual Budgets List**

The header displays the Project Name, Save Button, original Project Budget (entered when you created the project) and the new Manual Budgets Total.

As the individual period budgets are changed the Manual Budgets Total is updated. Once this differs from the Project Budget, it turns red to highlight the difference. If you go ahead and click save, the project budget is updated and both values are shown as black.

The list contains one row per reporting period and these can be edited by clicking directly on the row

5:00

Back Manual Budgets

Manual Period Budgets Save

Number of reporting periods: 6

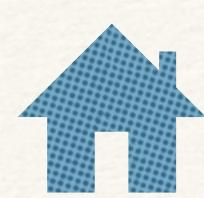
Project Budget: \$ 1,200.00

Manual Budgets Total: \$ 1,200.00

Reporting Period	Budget cost:	Budget percent complete:
1	\$ 200.00 >	16.67 %
2	\$ 300.00 >	25.00 %
3	\$ 250.00 >	20.83 %
4	\$ 200.00 >	16.67 %
5	\$ 150.00 >	12.50 %
6	\$ 100.00 >	8.33 %

Click a reporting period row to see the edit period budget screen.





ProjectAble - Edit Period Budgets

Edit the spend amount and click save to be returned to the Manual Budgets List

Edit the spend amount and when done click 'Save' and you will be returned to the manual budgets list to continue editing the period budgets until you are happy with them.

5:00

Manual Budgets

Manual Period Budgets

ReportingPeriod: 2

Resulting Project Budget: \$ 1,200.00

Adjust period budgets in line with expectation

Amount: 300.00

% Comp: 25.00%

Save

Note: Once a project has started, it is no longer possible to edit budgets. If you need to edit budgets, delete all progress updates (progress history), edit the budgets and then redo progress updates.

As each period budget is edited, the project budget will update and budget percent complete will be automatically updated as you change the period budget amount.

Note:
Once a project has started (a progress update has been added), the budgets cannot be changed and the Save button will be disabled.





ProjectAble - Edit Period Budgets

ProjectAble will now use the manual period budgets in it's progress calculations.

12:50

Project List Project Information

ACTIVE

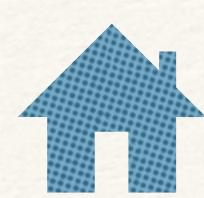
Manual Period Budgets

Testing

Sponsor:	Me
Start date:	Thursday, 16 July 2020
End date:	Thursday, 23 July 2020
Days duration:	6
Project Budget:	\$ 1,200.00
Reporting frequency:	Daily
Reporting periods in project:	6
Distribution Curve:	Manual

← The Project Budget matches that seen in the Manual Budgets List





ProjectAble - Project Information

Rarely a project may fall into this state. The project has reached the point where the budget has been used up prior to the end of the project. In this situation the project sponsor needs to make a call.

Whatever happens outside of ProjectAble, here you need to mark this project complete. See next slide.

The purple RAG status indicates that the project has irrecoverable budget overrun and needs immediate intervention.

The TCPI becomes a negative number once the project is in overspend. It is this that triggers the Purple RAG status.

12:01

Project List Project Information

COMPLETE

TP5

10 days, daily, £1000, Normal Distribution

Sponsor: Tech Manager

Start date: Monday, 25 May 2020

End date: Friday, 5 June 2020

Days duration: 10

Project Budget: \$ 1,000.00

Reporting frequency: Daily

Reporting periods in project: 10

Distribu Normal

Project budget is no longer viable
Once a new budget is agreed, create a new project to continue

Dismiss

...

Wi-Fi

Heartbeat icon

Power icon

Pencil icon

When a project has a a purple RAG status, the 'Project budget no longer viable' alert will be displayed every time the Project Information screen is displayed





ProjectAble - Project List Filter Options

In this case the user is going to select Complete

The screenshot shows the ProjectAble app's Project List screen. At the top, it displays the time as 1:25 and a signal strength icon. Below the header, there is a list of five projects:

- TP5 (Tech Manager): 10 days, daily, £1000, Normal Distribution
- TP004 Testing (Andrew Peacock): 16 weeks, 4 weekly, £100,000, Flat distribution
- Project 2 (Dev Manager): 6 weeks, weekly, £20,000, normal distribution
- TP3 (Frank Lee): 8 weeks, 2 weekly, £50,000, Back loaded distribution
- Project 1 (highlighted with a green dot)

A modal dialog box titled "Choose Filter" is overlaid on the screen. It contains the text "Select a filter option" and four filter options listed vertically: "Active", "Not Yet Started", "Complete", and "Show all". At the bottom of the dialog is a "Cancel" button.

When you click on the Filter button you will be show the menu below.





ProjectAble - Project List Filter Results

The Project List now displays only those projects which have been completed.

12:05

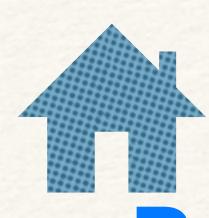
Edit ? ⌂

Project List

- TP5
Tech Manager
10 days, daily, £1000, Normal Distribution
Project is Complete, Reporting Daily
- TP3
Frank Lee
8 weeks, 2 weekly, £50,000, Back loaded distribution
Project is Complete, Reporting Weekly
- PR006
P Completer
13 days, daily, £300, Normal distribution, completed project
Project is Complete, Reporting Daily

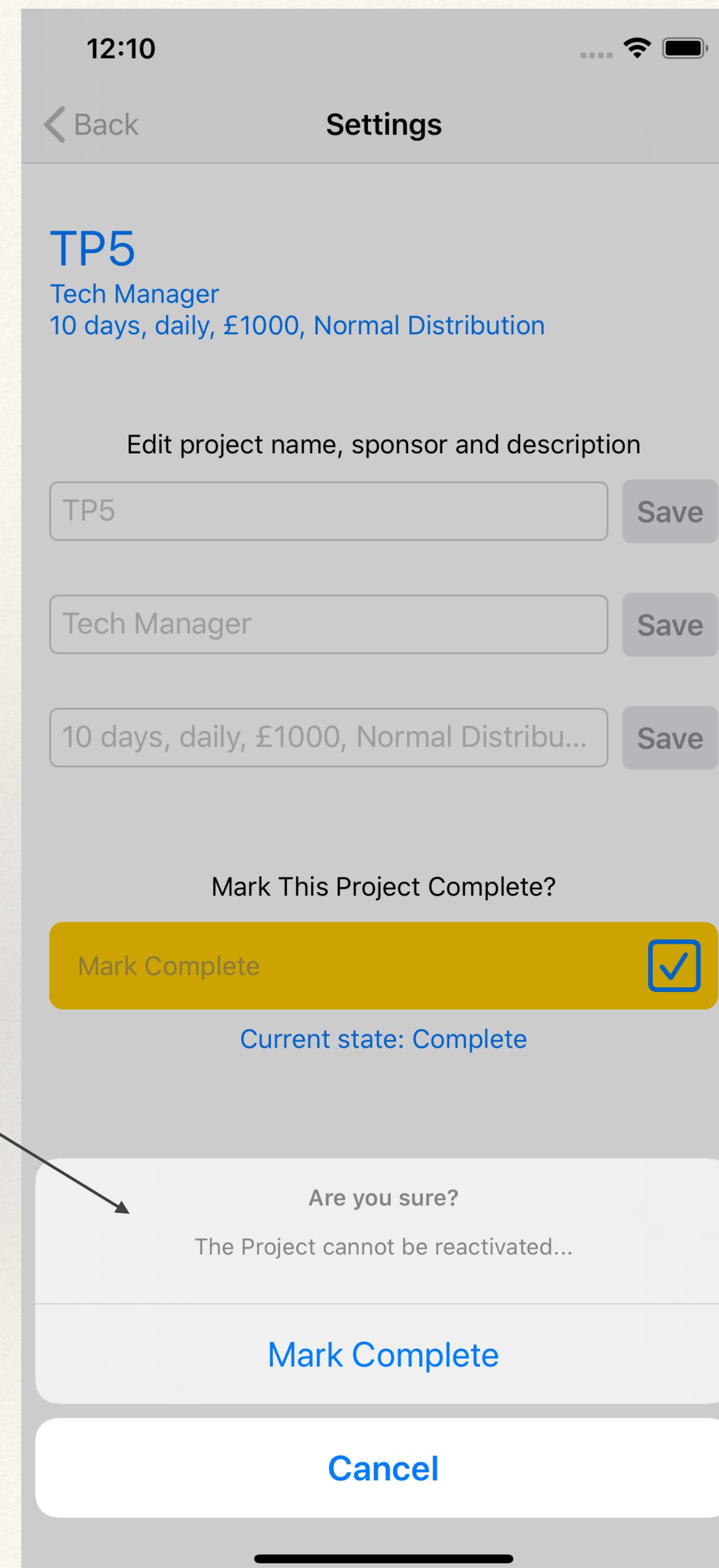
+





ProjectAble - Project List Filtered to show only completed projects

When you click the 'Mark Complete' button ProjectAble presents an alert and requires the user to confirm or cancel the request





ProjectAble Currently ...

The RAG Status thresholds are currently hard coded as follows:

RED = 5% or more over budget, behind on schedule or behind on efficiency

AMBER = 0 to 5% over or behind

GREEN = On target or better than target

PURPLE = Negative TCPI

ProjectAble - Future Improvements

Give users ability to set:

1. Charts to show progress pictorially
2. RAG thresholds
3. Timed alerts / reminders

