

Managing Resources in a Big Data Environment

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Tracking

Managing your team without a proper plan or tool can be a total nightmare.

You know there must be a better way to manage your resources and team, right?

Introduction

Are you:

- Struggling with the management of resources?
- Unsure of what your resources are working on, if at all?
- Struggling with resource planning?

Do you:

- Want to perform deep analysis and predictions on resources?
- Want to see the resource management data live and on-demand?
- Want access to all of this information from the comfort of your own office?

Well then listen carefully!

Industry Growth Challenges

- › Teams get bigger and are located across the globe.
- › Studies get more complex.
- › Managing resources becomes more difficult:
 - We often assume what resources are up to instead of having a real-time picture.
 - It is difficult to plan ahead when resource teams are large and/or distributed across locations.
- › Timelines shift regularly and unpredictably. It is important to visualize, and manage, the impact as soon as possible.



Resource Planning Challenges

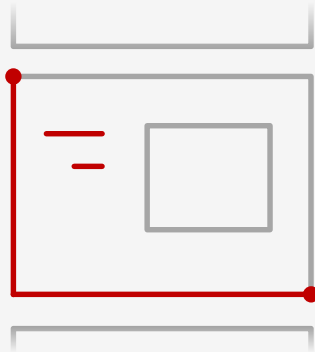
- Resource planning can be a challenging endeavor, due to:
 - Scattered or inadequate resource management tools.
 - Current resource management tools may return unstructured data and present compatibility issues.
 - Resource planning data can be difficult to interpret.
 - Resource planning results are often inaccurate.

A Proposed Solution

- Let's use information technology to our advantage.
- We propose a centralized, always-online web application:
 - Staff across the globe can access it.
 - Always available – can be hosted in the cloud if company server infrastructure is not available.
 - Extensibility and flexibility of the solution is viable.
 - Future-proof.
- Database solution ties in with an online web application:
 - All of the applicable data is collated into a database.

Resource Tracking Methods – Old versus New

Old Tracking Method



Traditionally presented in an Excel sheet.

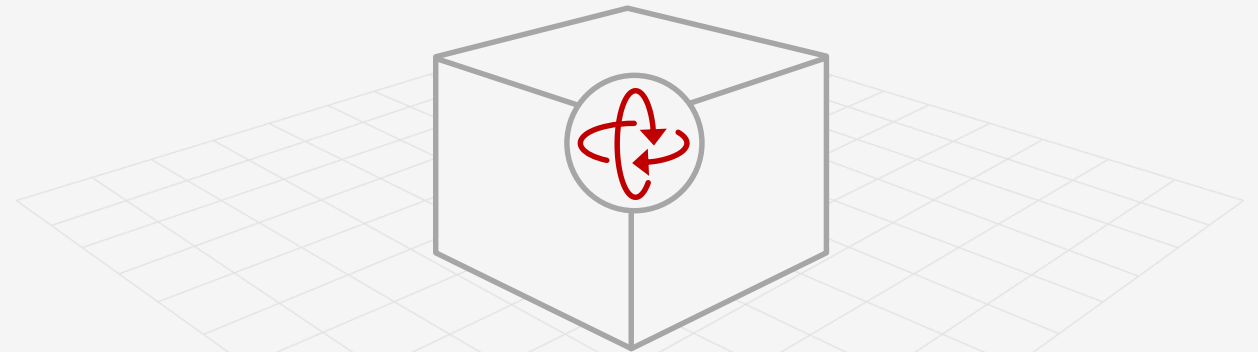
Difficult to mine data from Excel sheets.

Data integration is challenging.

Project oversight can miss crucial details.

Easy to set up and use in the short term, but presents inadequacies and difficulties in the long term.

New Tracking Method



Project oversight is achievable.

Resource planning and management becomes easier when you have a birds-eye view.

Easier to use for end-users when UX principles are employed.

Always accessible by all users.

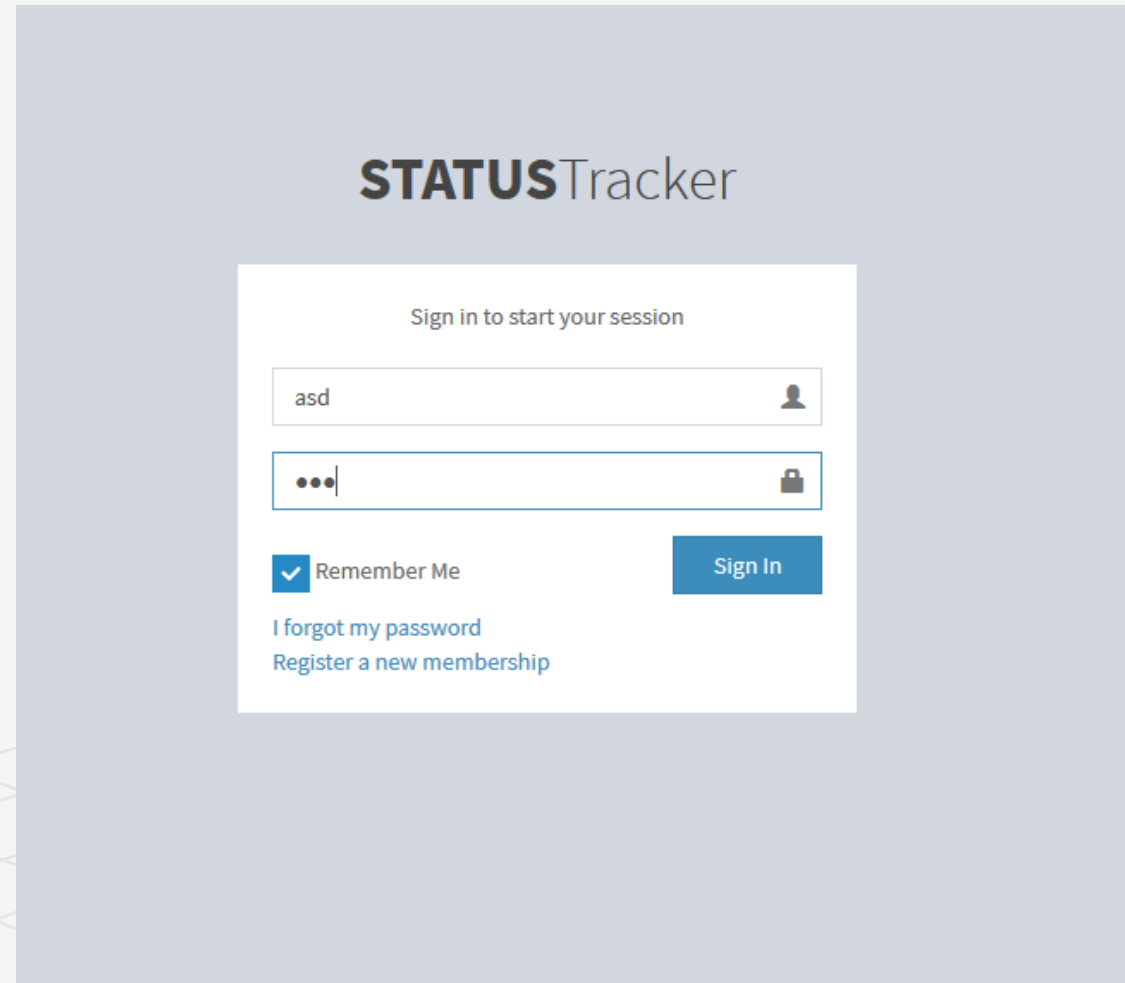
Our solution is an online form.

Let's Get Started!

- Managing day-to-day tasks

First Things First

- A familiar login screen is presented to the user.



The screenshot shows a login interface for 'STATUSTracker'. The title 'STATUSTracker' is at the top in a bold, dark font. Below it, the text 'Sign in to start your session' is centered. There are two input fields: the first contains the text 'asd' and has a user icon on the right; the second contains three dots and has a lock icon on the right. Below the inputs, there is a 'Remember Me' checkbox with a checkmark, and a blue 'Sign In' button. At the bottom, there are two links: 'I forgot my password' and 'Register a new membership'.

STATUSTracker

Sign in to start your session

asd

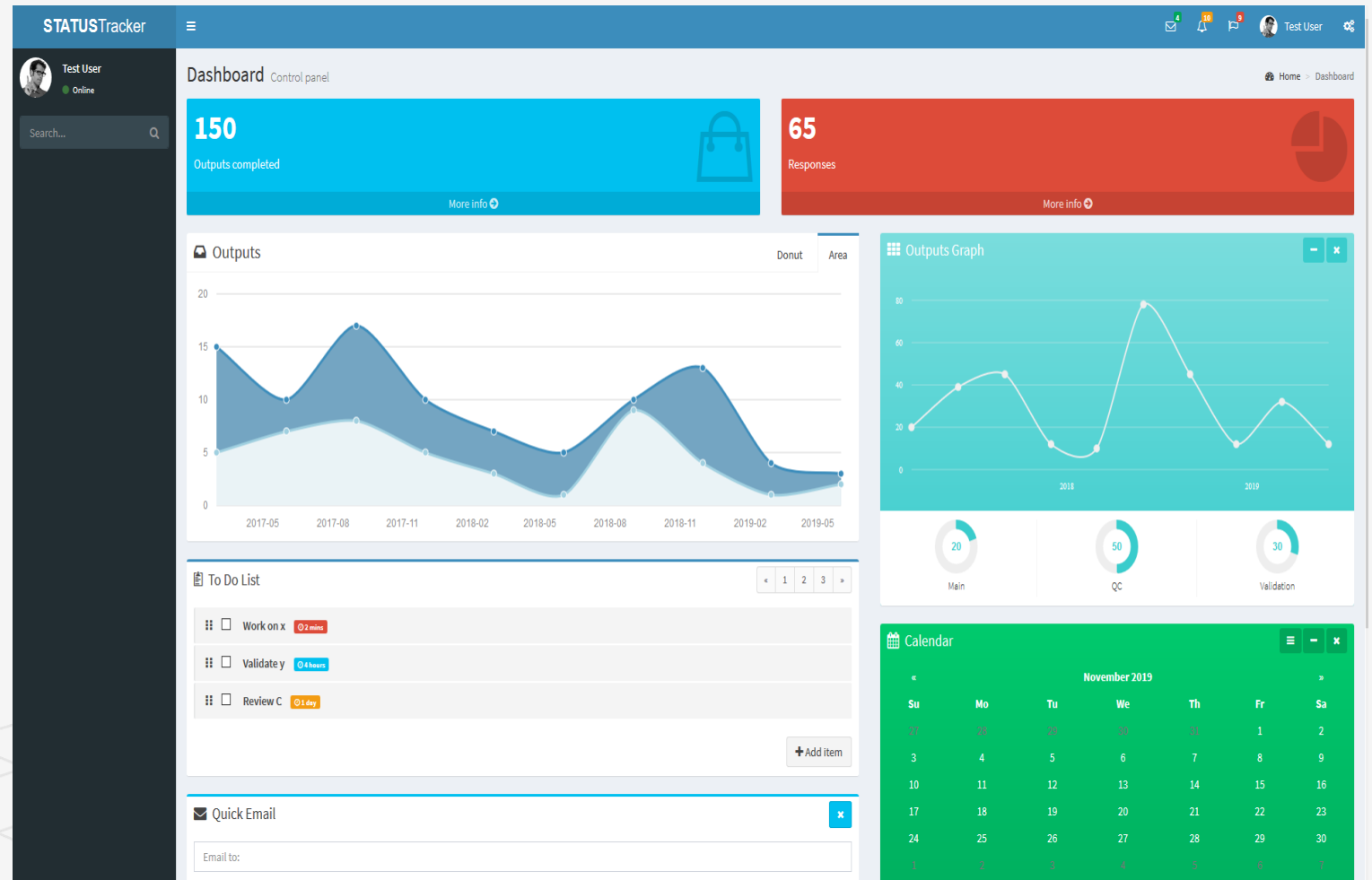
...

☒ Remember Me [Sign In](#)

[I forgot my password](#)
[Register a new membership](#)

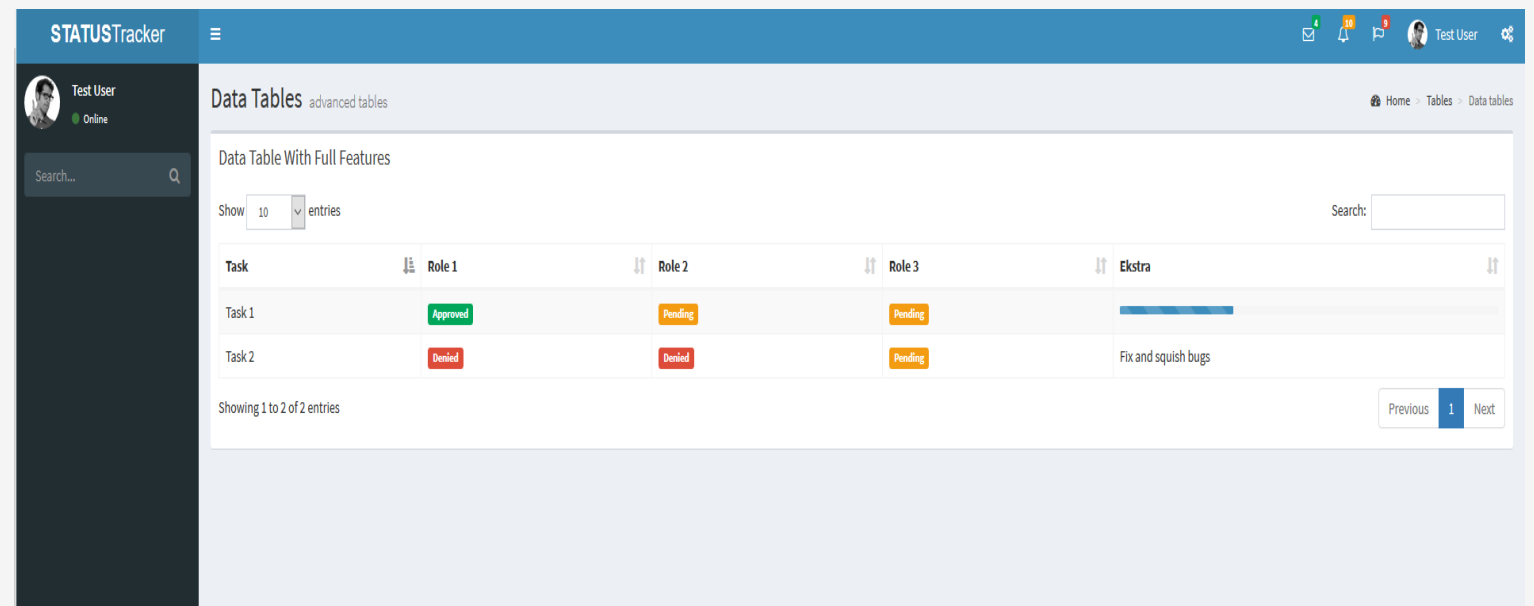
Informing The End-User

- Provide resources with:
 - A performance overview.
 - Upcoming tasks.



Focusing The Resource

- Upcoming and current tasks can be viewed.
- Each task has a specific user assigned.
- All team members can view the task list.
- The status of each task is tracked.
- Updates are immediately visible to other users.
- Users can add comments to each task.



The screenshot displays the STATUSTracker application interface. The top navigation bar is blue with the 'STATUSTracker' logo and a hamburger menu icon. On the right, there are notification icons and a user profile for 'Test User'. A dark sidebar on the left shows the user's profile and a search bar. The main content area is titled 'Data Tables' and contains a table with task status information.

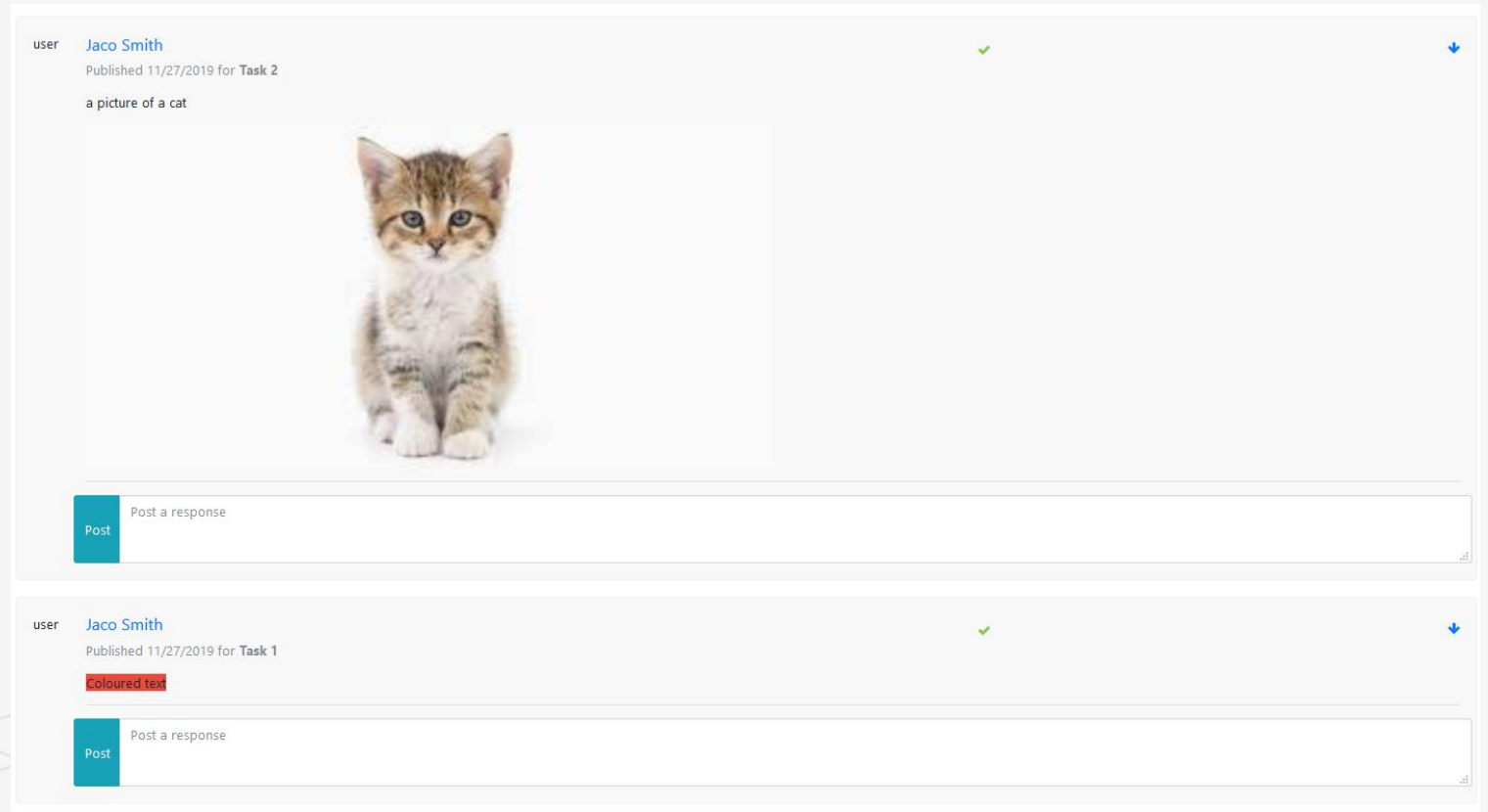
Task	Role 1	Role 2	Role 3	Ekstra
Task 1	Approved	Pending	Pending	
Task 2	Denied	Denied	Pending	Fix and squish bugs

Showing 1 to 2 of 2 entries

Navigation: Previous 1 Next

Keeping the necessary

- Who does not like a comment with a cat picture?

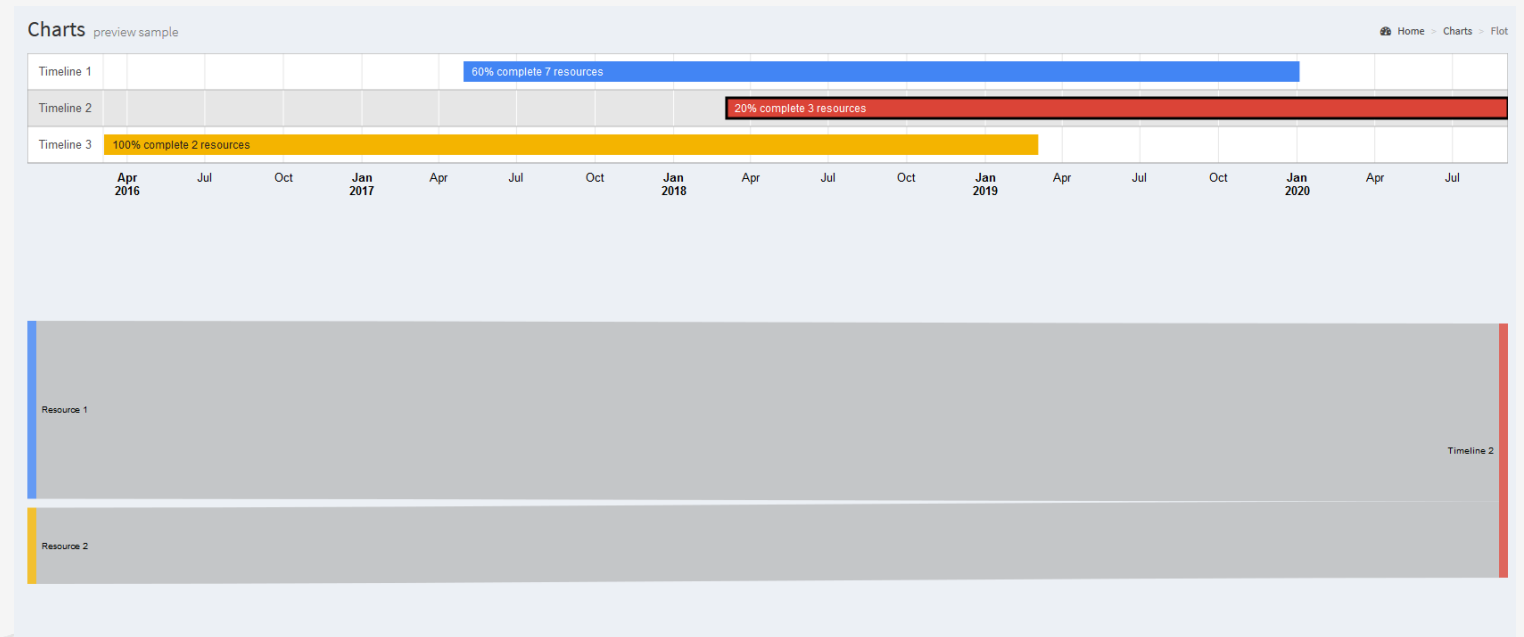


Managing At Its Best

- Tracking resources

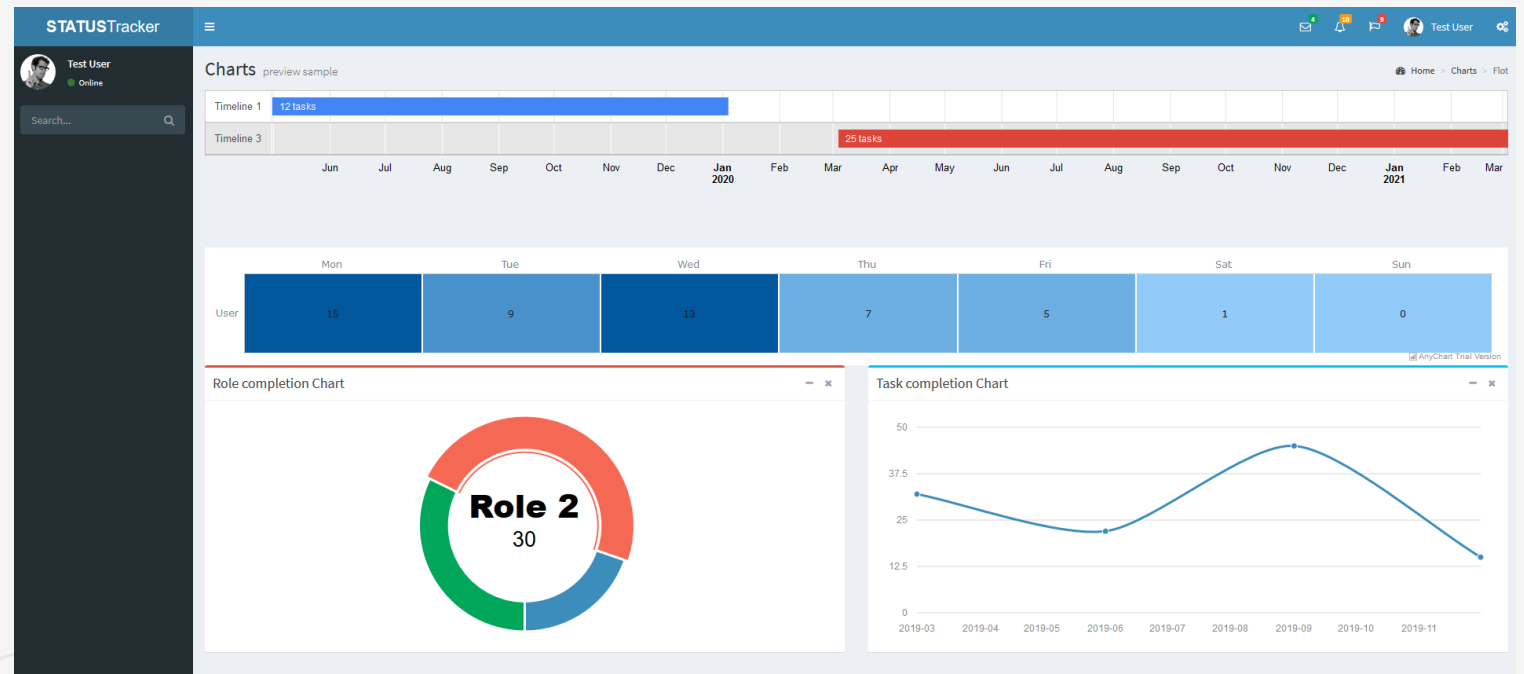
Managing Timelines

- Managing timelines should not be a challenge with modern technology.
- Our solution relies on visual representation.
- A good project overview leads to great project management.



Managing Resources

- Live data of the resource is always available.
- Live data makes for more accurate planning.
- Planning is easier when data can be visualized.



Comparing Resources

- View a single resource.
- Compare resources with one another.



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STATUSTracker

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Online

Search...

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Links

Dashboard

Tracking

Report

Tracking

advanced tracking

Home

Tables

Tracking

Tracking table

Show 10 entries

Search:

Task	Role 1	Role 2	Role 3	Other
Task 1	smithj@	presi		
Task 2	smithj@	presi		
Task 3	presi			
Task 4				

Showing 1 to 4 of 4 entries

Previous 1 Next

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Anything you want

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Links

Dashboard

Tracking

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advanced tracking

Home

Tables

Tracking

Tracking table

Show 10 entries

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Task 3	presi			
Task 4				

Showing 1 to 4 of 4 entries

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Anything you want

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STATUSTracker

Jaco Smith

Online

Search...

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Links

Dashboard

Tracking

Report

Charts

Preview sample

Home

Charts

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Role 2
2

Resource smithj@

Role 1
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0
00:00 03:00 06:00 09:00 12:00 15:00 18:00 21:00 00:00

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Anything you want

What About Extensibility?

- Integrating with other systems
- Expanding functionality

Integrating External Software

- The database design allows for easy integration with an external system.
- Data can be imported as well as exported.
 - SAS 9.4 connectivity as an example

```
LIBNAME mySF ODBC DBMAX_TEXT=32000  
COMPLETE="DRIVER=SQL Server; Database=xx; Server=xx;  
UID=xx; PWD=xx;";
```

Extensibility

- Easy to customize. We can add, with little effort:
 - New reports.
 - New graphs.

Conclusion

- Our solution keeps the resources focused on their tasks.
- The managing of resources can be done easier.
- Designing and implementing new features is feasible.

Thank You!

- Any questions about our status tracker tool?