

Index / Landing Page

OSU / Spring 2017 / CS467 / Team Cassiopeia (Guthrie, Kuretski, Stramel)

Page 1

Description

This is the home screen for the entire application. From here the user can view a summary of the entire business plan including the estimated statement of work (by project), the total funding allocation, total available (active) employees, and total assigned employees.

The navigation bar across the top provides the user access to a number of maintenance and summary pages such as employee list and utilization, funding by project or type, and disciplines.

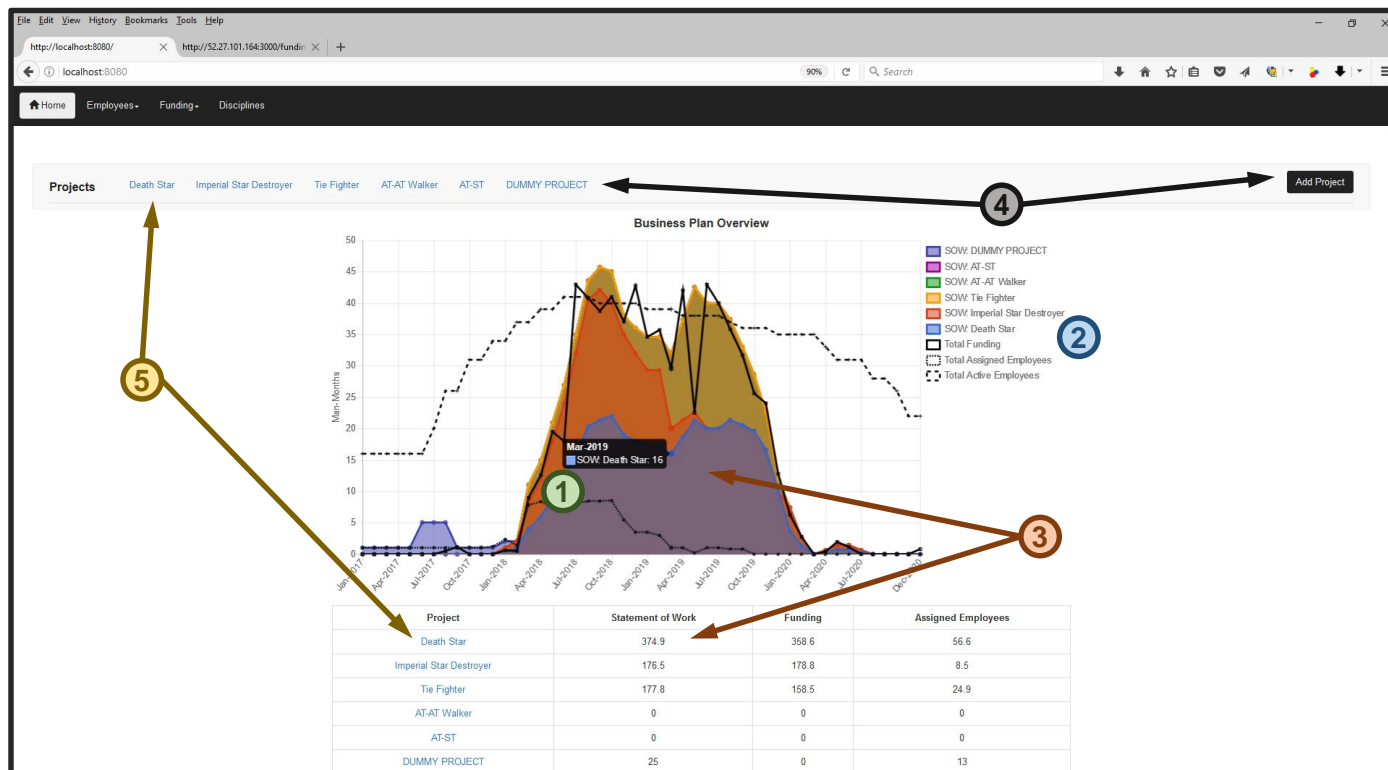
The Projects navigation bar allows the user to select or drill down into a particular project. The “Add Project” button on the right hand side of the Projects navigation bar allows the user to do just that.

Important Notes

- The application can be accessed at <http://34.210.131.245>
- Supported browsers include Chrome and Firefox at a minimum.
 - Internet Explorer is not supported.
 - Support for Safari, Opera, and Edge has not been verified.
- Time constraints necessitated the construction of this demo document prior to project completion. Therefore you may see some minor differences between this document and the final deliverable.

Demonstration Steps

- With your mouse hover over any data point on any curve.
 - You should see the numerical value and the associate date for that data point.
- In the chart legend, click on “SOW: Death Star”.
 - You should see the statement of work associated with the project disappear from the chart. Click it again to bring it back.
 - This is a good tool for scenario planning such as taking on new projects or cancellations of existing projects.
- Note that projects are displayed in a stacked area format.
 - The total area under all of the shaded curves represents the total statement of work for all projects.
 - The area under any one shaded curve represents the total statement of work for an individual project.
- Note that the employee and funding curves are simple line format.
 - The total areas under each of these curves represent business level totals.
- Click on the “Add Project” button.
 - In the pop-up window, enter a title and a short description for the project.
 - Click “Add New Project” and you should see your new project page.
- Click on the link titled “Death Star” in the Projects navigation bar.
 - Proceed to page 2 of this demonstration.



Project Page

Description

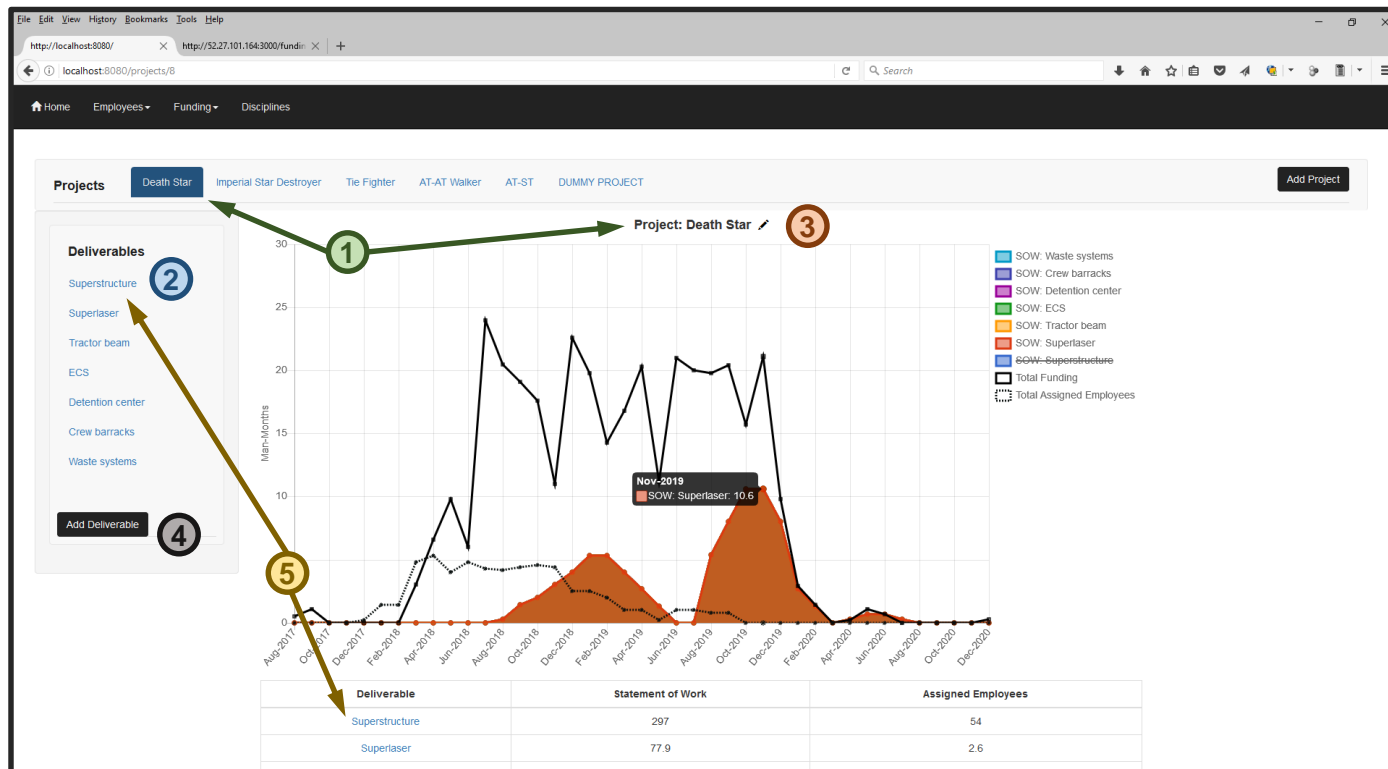
This is the project summary screen. From here the user can view an overview of the entire project plan including the estimated statement of work (by deliverable), the total funding allocation, and total of employees currently assigned.

The view is visually and functionally similar to the index / landing page but provides more specific data for an individual project.

The Deliverables navigation bar allows the user to select or drill down into a particular project deliverable. The “Add Deliverable” button on the bottom of the Deliverables navigation bar allows the user to do just that.

Demonstration Steps

- Note that “Death Star” is highlighted on the Projects Navigation bar and the title above the chart has also changed.
- Note the appearance of the new Deliverables navigation bar. The Deliverables are specific to this project.
- With your mouse hover over any data point on any curve.
 - You should see the numerical value and the associate date for that data point.
 - This is a good tool for understanding the alignment of employees, funding, and statement of work over time.
- In the chart legend, click on “SOW: Superstructure”.
 - You should see the statement of work associated with the project disappear from the chart. Click it again to bring it back.
- Note that deliverables are displayed in a stacked area format.
 - The total area under all of the shaded curves represents the total statement of work for all deliverables (for the project as a whole) and matches that shown on the Index / Landing page.
 - The area under any one shaded curve represents the total statement of work for an individual deliverable.
- Note that the employee and funding curves are simple line format.
 - The total areas under each of these curves represent project level totals.
- Click on the pencil next to the Project Title.
 - In the pop-up window, update the title from “Death Star” to “Death Star #2” and update the description from “DS-1” to “DS-2” (for unfortunate reasons).
 - Click “Update Project” and you should see the updated project name in various locations.
- Click on the “Add Deliverable” button.
 - In the pop-up window, enter a title such as “Thermal Exhaust Protection” and a short description for the deliverable.
 - Click “Add New Deliverable to Death Star #2” and you should see your new project on the Deliverables navigation bar.
- Click on the link titled “Superstructure” in the Deliverables navigation bar.
 - Proceed to page 3 of this demonstration.



Deliverable Page

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Page 3

Description

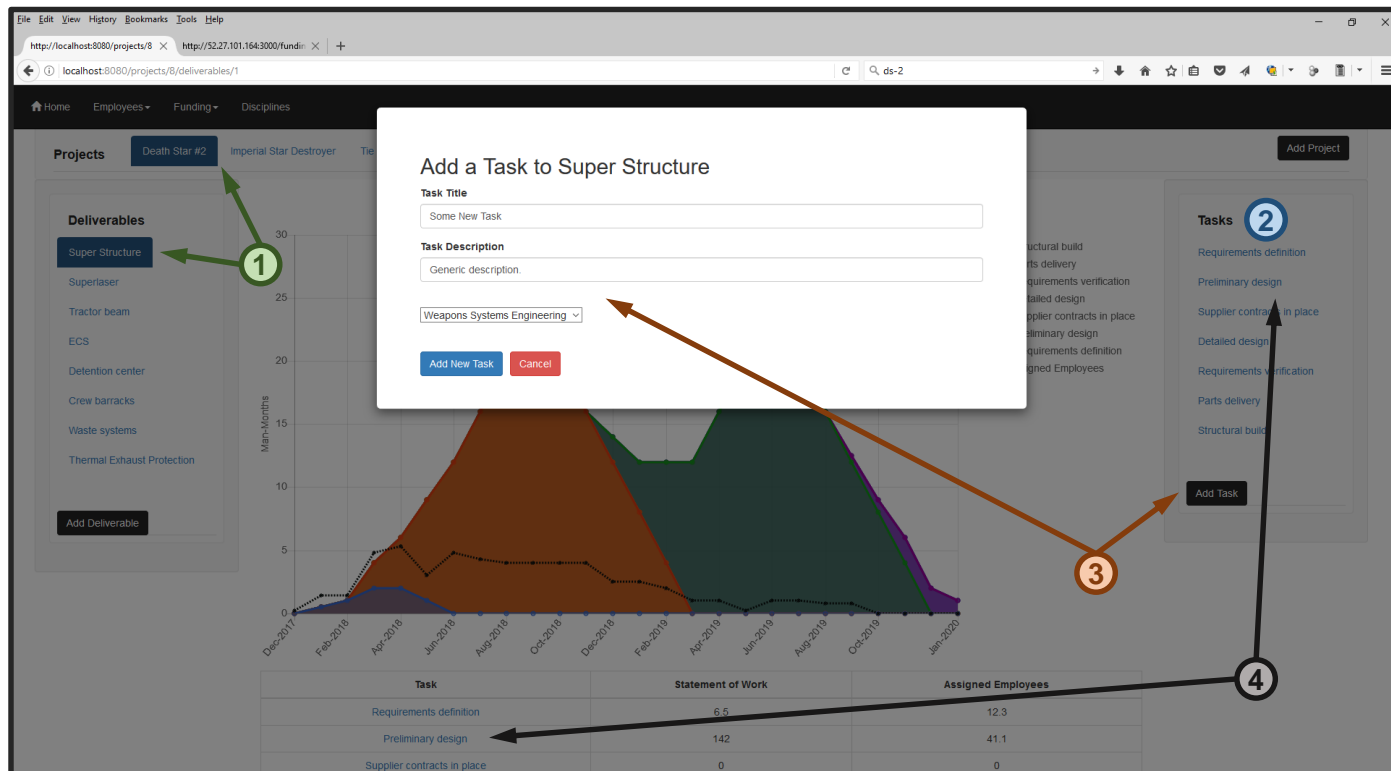
This is the deliverable summary screen. From here the user can view an overview of the entire deliverable plan including the estimated statement of work (by task) and total of employees currently assigned.

The view is visually and functionally similar to the project page but provides more specific data for an individual project deliverable.

The Tasks navigation bar allows the user to select or drill down into a particular task that supports this project deliverable. The “Add Task” button on the bottom of the Tasks navigation bar allows the user to do just that.

Demonstration Steps

- 1 Note that “Death Star #2” is highlighted on the Projects Navigation bar, “Superstructure” is highlighted on the Deliverables Navigation bar, and the title above the chart has also changed.
- 2 Note the appearance of the new Tasks navigation bar. The Tasks are specific to this project deliverable.
 - You may optionally note similar functionality to other pages already presented in prior pages.
 - Mouse hover over any data point on any curve.
 - In the chart legend, click on “SOW: Detailed Design” several times.
 - Tasks are displayed in a stacked area format.
 - The total area under all of the shaded curves represents the total statement of work for all tasks (for the project deliverable as a whole).
 - The assigned employee curve is simple line format.
 - The total area under this curve represents a deliverable level total.
- 3 Click on the pencil next to the Deliverable Title.
 - In the pop-up window, update the title from “Superstructure” to “Super Structure”.
 - Click “Update Deliverable” and you should see the updated deliverable name in various locations.
- 4 Click on the “Add Task” button.
 - In the pop-up window, enter a title and a short description for the task.
 - Click “Add New Task” and you should see your new project on the Deliverables navigation bar.
 - You’ll also need to select a Discipline from the drop down list for this task. This represents the skill set required to complete this task.
- 5 Click on one of the two links titled “Preliminary Design”.
 - The first link is in the Tasks navigation bar.
 - The second link is in the summary table below the chart.
 - Both links will take you to the task summary page.
 - Proceed to page 4 of this demonstration.

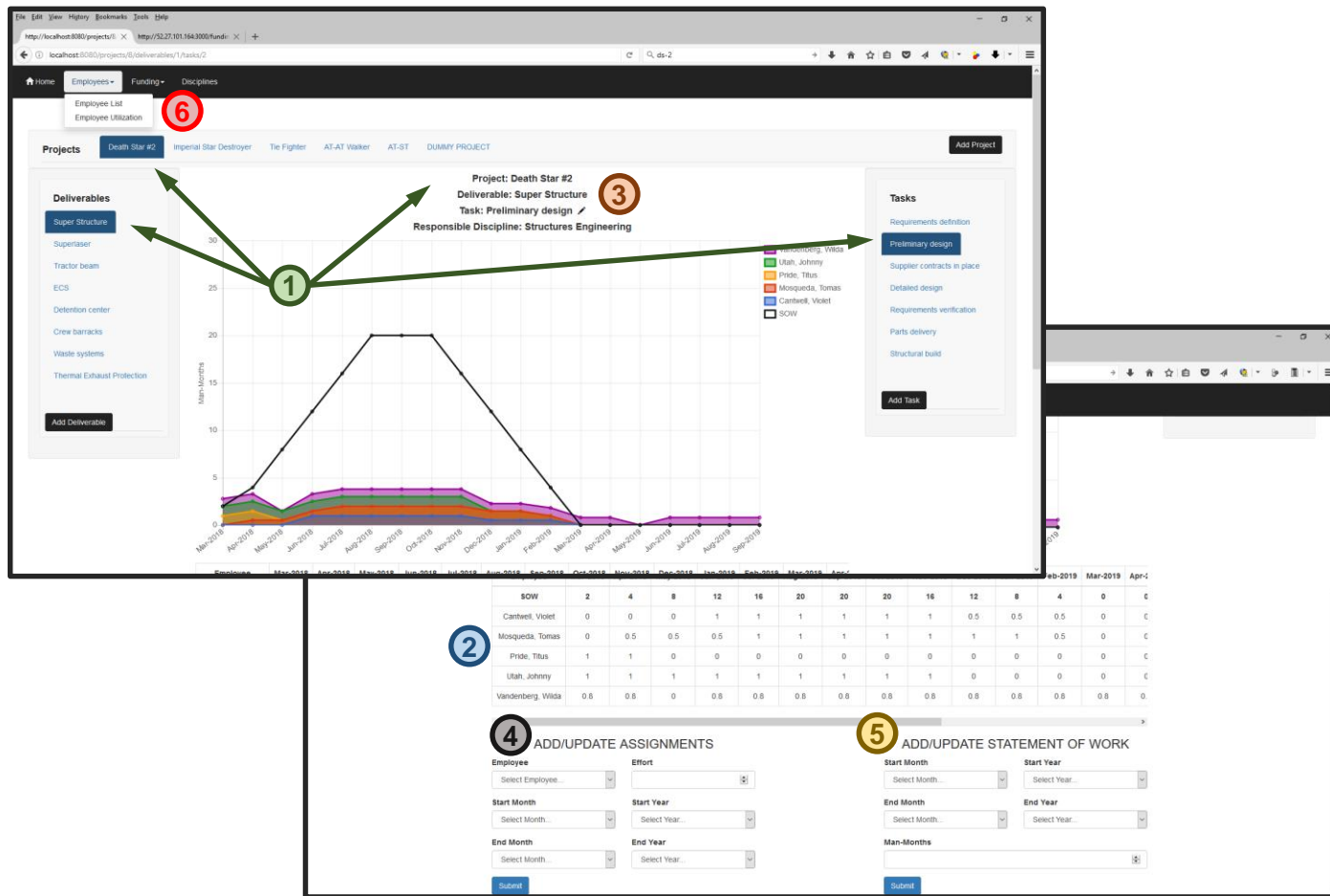


Task Page

Description

This is the task summary screen. From here the user can input the estimated statement of work and assigned individual employees to a particular task. The user can also see visual representations of the same data which are updated in real time as the user makes updates.

The chart portion of the view is visually and functionally similar to the deliverable page but provides more specific data for an individual task that supports a project deliverable.



Demonstration Steps

- Note that "Death Star #2" is highlighted on the Projects Navigation bar, "Super Structure" is highlighted on the Deliverables Navigation bar, "Preliminary design" is highlighted on the Tasks Navigation and the title above the chart has also changed.
- Note the appearance of the new summary table (relative to the other views). Whereas the other views show totals, the Task view shows by month statement of work and employee assignments.
- You may optionally note similar functionality to other pages already presented in prior pages.
 - Mouse hover over any data point on any curve.
 - In the chart legend, click on "Cantwell, Violet" several times.
 - Employee assignments are displayed in a stacked area format.
 - The total area under all of the shaded curves represents the total of assigned employees for this particular task.
 - The statement of work curve is simple line format.
 - The total area under this curve represents a task level total.
- Click on the pencil next to the Task Title.
 - In the pop-up window, add a description.
 - Click "Update Task".
- Under "ADD/UPDATE ASSIGNMENTS", fill in each field and click submit. This will assign a portion of an employees time to this task for a period of time.
 - Employee: "Amin, Shane"
 - Effort: 0.8
 - Start: April/2018
 - End: March/2019
 - You should see that both the chart and the table are updated.
- Under "ADD/UPDATE STATEMENT OF WORK", fill in each field and click submit. This will update the estimate statement of work for this task for a period of time.
 - Start: Aug/2018
 - End: Oct/2018
 - Man-months: 18
 - You should see that both the chart and the table are updated.
- On the upper left of the screen, click on the "Employees" drop-down and then click "Employee List".
 - Proceed to page 5 of this demonstration.

Employee List Page

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Page 5

Description

This is a maintenance page where users can see the employees that do or have worked for the company over time. Employees can also be added, updated, or deleted from this page.

The image shows three overlapping screenshots of a web application interface for managing employees. The interface includes a navigation bar with 'Home', 'Employees', 'Funding', and 'Disciplines'. The 'Employees' dropdown menu is open, showing 'Employee List' and 'Employee Utilization'. The main content area displays a table of employees with columns for Employee ID, Last Name, First Name, Discipline, Active, Active Start Date, and Active End Date. The table lists several employees, including Captain Phasma (ID 6356). The 'Add New Employee' button is highlighted in the top right. The 'Update' and 'Delete' buttons are visible next to each employee row. A modal dialog for deleting an employee is shown, asking for confirmation to delete 'Phasma, Captain'. Another modal dialog for adding a new employee is shown, with fields for First Name, Last Name, Discipline, Active Start Month, Active Start Year, Active End Month, and Active End Year. The 'Add Employee' button is highlighted in the bottom right. The 'Employee Utilization' page is also visible in the background.

Demonstration Steps

- 1 Click the "Employee ID" button to sort the employee list based on employee ID. You can also sort by Last Name, First Name, Discipline, Active, and Start/End dates.
- 2 Click the "Add New Employee" button, fill in each field and click submit.
 - First Name: "Captain"
 - Last Name: "Phasma"
 - Discipline: "Security"
 - Active Start: June/2017
 - Active End: Dec/2057 (meaning unknown at the moment)
 - After clicking "Add Employee" you should be able to find the new employee in the list.
- 3 Click the "Update" button next to "Captain Phasma".
 - Change "Active End Year" to 2017 (we can't be sure she'll be available after The Last Jedi).
 - After clicking "Update Employee" you should be able to see the updates in the list.
- 3 Take note of the Employee ID for "Captain Phasma" in the list.
- 3 Click the "Delete" button next to "Captain Phasma".
 - You will get a warning.
 - Go ahead and click "Delete".
 - Search for her Employee ID to verify deletion. She should not appear in the list.
- 4 On the upper left of the screen, click on the "Employees" drop-down and then click "Employee Utilization".
 - Proceed to page 6 of this demonstration.

Employee Utilization Page

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Page 6

Description

This is a maintenance page where users can see the employees that have been assigned work over time. This is a view only page designed to help managers understand if their employees are over or under allocated.

Months where employees have assignments totaling less than 100% of their time (underallocated) are highlighted in yellow. Similarly, months where employees have assignments totaling more than 100% of their time (overallocated) are highlight in red. Green is used to highlight months with balanced allocation. In an ideal world the entire table would be green.

The screenshot shows a web application titled "Employee Utilization". At the top, there are tabs for "Funding" and "Disciplines". Below the tabs, there are two sub-tabs: "Funding By Project" and "Funding By Type". A callout 4 points to the "Funding By Project" tab. The main table displays employee utilization data. The columns represent months from Dec-2017 to Aug-2018. The rows list employees and their disciplines. Callout 1 points to a red cell in the June 2018 column for employee Titus, indicating overallocation. Callout 2 points to the "Proj: Death Star #2" row. Callout 3 points to a detailed view of the "Proj: Death Star #2" row, showing tasks and their respective allocations. The detailed view shows that Titus is allocated 0.3 man-months to the "Del: Super Structure" task in June 2018.

Last Name	First Name	Discipline	Dec-2017	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018
Clay	Carmine	Control Systems Engineering	0	0	0	1	1	1	1	1	1
Donaldson	Claud	Control Systems Engineering	0	0	0	1	1	1	1	1	1
Britton	Deirdre	Control Systems Engineering	0	0	0	1	1	1	1	1	1
Gilliland	Kassie	Weapons Systems Engineering	0	0	0	0	0	0	0	0	0.3
Bach	Leonard	Weapons Systems Engineering	0	0	0	0	0	0	0	0	0.5
Detouch	Myrl	Weapons Systems Engineering	0	0	0	0	0	0	0	0	0
Hammett	Stacy	Structures Engineering	0.2	1	1	1	1	1	1	1	0.2
Pride	Titus	Structures Engineering	0	0	0	1	1	0.5	0.5	0.5	1
Proj: Death Star #2			0	0	0	1	1	0.3	0.3	0	0
Proj: Imperial Star Destroyer			0	0	0	0	0	0	0.5	0.5	1
Proj: Tie Fighter			0	0	0	0	0	0	0.3	0.3	0.3
Mosqueda	Tomas	Structures Engineering	0	0	0	0	0.5	0.5	0.5	0.5	1
Cantwell	Violet	Structures Engineering	0	0.4	0.4	1	1	0.2	0.2	1	1
Vandenberg	Wilda	Structures Engineering	0	0	0	0.5	0.5	0	0.5	0.5	0.5
Utah	Johnny	Structures Engineering	0	0	0	1	1	1	1	1	1

Proj: Death Star #2	Del: Super Structure	Task: Preliminary design	Task: Detailed design	Proj: Imperial Star Destroyer	Proj: Tie Fighter	Mosqueda	Cantwell	Vandenberg	Utah
0	0	0	1	1	0.3	0.3	0	0	0
0	0	0	1	1	0.3	0.3	0	0	0
0	0	0	1	1	0	0	0	0	0
0	0	0	0	0	0	0.3	0.3	0	0
0	0	0	0	0	0	0.5	0.5	0.5	1
0	0	0	0	0	0	0.3	0.3	0.3	0.3
0	0	0	0	0	0.5	0.5	0.5	0.5	0.5
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0.4	0.4	0.4
0	0	0	0	0	0	0.5	0.5	0	0.5
0	0	0	0	0	0	1	1	1	1

Demonstration Steps

- Note that in June of 2018, employee Titus Pride appears to be overallocated. He's been assigned 1.1 man-months worth of work.
- Click the "[+]" button next to Title Pride's name to view which projects he's assigned to work on.
 - Note that he's been assigned 0.3, 0.5, and 0.3 man-months worth of work to projects "Death Star #2", "Imperial Star Destroyer", and "Tie Fighter" in June of 2018.
- Click the "[+]" button next to "Proj: Death Star #2" to view which deliverables he's assigned to in support of that project. Further click the "[+]" button next to "Del: Super Structure" under that project to view which tasks he's assigned to in support of that deliverable.
 - Note that the 0.3 man-months of June 2018 Death Star work is solely in support of Detailed Design of the Super Structure.
- Click the various "[-]" buttons to collapse the table as desired.
 - On the upper left of the screen, click on the "Funding" drop-down and then click "Funding By Project".
 - Proceed to page 7 of this demonstration.

Funding By Project Page

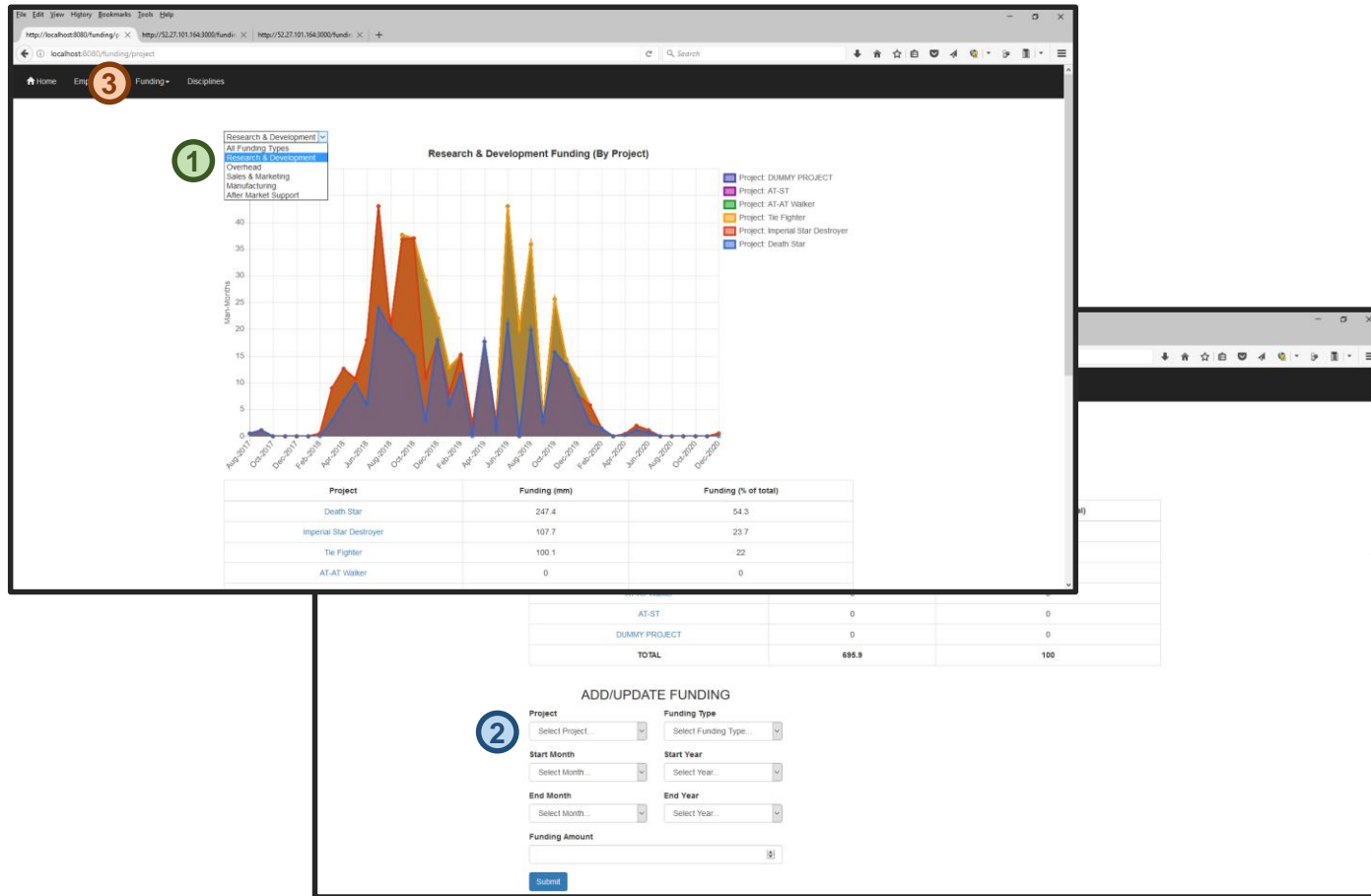
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Page 7

Description

This is one of two pages where users can view summaries of available funding for the organization and can make updates to the available funding. The user may also use this form to add, update, or delete funding.

This page allows users to see summaries of funding broken out by project. The chart provides a visual summary and the table provides project specific funding on both total and percentage bases. This view is provided at an overall basis or (using the drop down on the upper left) on a funding type basis.



Demonstration Steps

- You may optionally note similar functionality to other pages already presented in prior pages.
 - Mouse hover over any data point on any curve.
 - In the chart legend, click on "Project: Death Star" several times.
 - The total area under all of the shaded curves represents the total funding for all projects.
 - The area under any one shaded curve represents the funding available for an individual project.
- Perhaps we are only interested in the distribution of R&D funding by project. Click on the dropdown and change the selection from "All Funding Types" to "Research and Development".
 - Note that the chart and the table are update with a new funding breakdown by project that specifically only includes R&D spending.
- Under "ADD/UPDATE FUNDING", fill in each field and click submit. This will assign funding of a particular type to a particular project for a period of time.
 - Project: "AT-ST"
 - Funding Type: "Sales & Marketing"
 - Start: April/2018
 - End: March/2019
 - Funding Amount: 10
 - You should see that both the chart and the table are updated when you select "All Funding Types" or "Sales and Marketing" in the dropdown.
- Under "ADD/UPDATE FUNDING", fill in each field and click submit. This will assign funding of a particular type to a particular project for a period of time.
 - Project: "AT-ST"
 - Funding Type: "Sales & Marketing"
 - Start: April/2018
 - End: March/2019
 - Funding Amount: 0 (Using a value of zero indicates deletion of funding).
 - You should see that both the chart and the table are updated when you select "All Funding Types" or "Sales and Marketing" in the dropdown.
- On the upper left of the screen, click on the "Funding" drop-down and then click "Funding By Type".
 - Proceed to page 8 of this demonstration.

Funding By Type Page

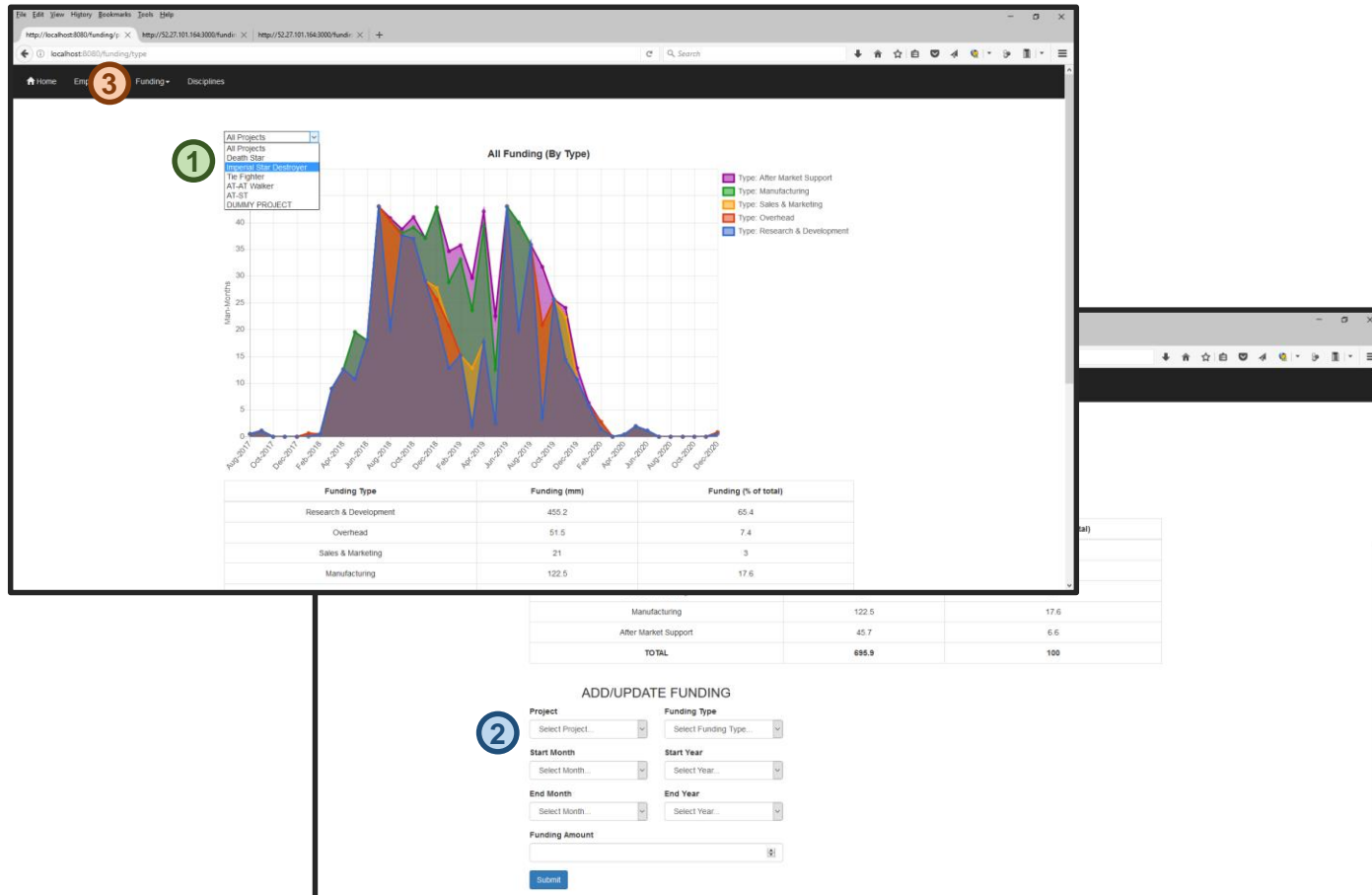
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Page 8

Description

This page displays the same information as the funding by project page but in a different organizational pattern. It transposes funding by type and by project to give the user an additional way to look at the same data.

This page allows users to see summaries of funding broken out by funding type. The chart provides a visual summary and the table provides type specific funding on both total and percentage bases. This view is provided at an overall basis or (using the drop down on the upper left) on a project basis.



Demonstration Steps

- You may optionally note similar functionality to other pages already presented in prior pages.
 - Mouse hover over any data point on any curve.
 - In the chart legend, click on “Project: Death Star” several times.
 - The total area under all of the shaded curves represents the total funding for all projects.
 - The area under any one shaded curve represents the funding available for an individual project.
- Perhaps we are only interested in the distribution of funding for the Imperial Star Destroyer project by funding by funding type. Click on the dropdown and change the selection from “All Projects” to “Imperial Star Destroyer”.
 - Note that the chart and the table are update with a new funding breakdown by type that specifically only includes the ISD project.
- Under “ADD/UPDATE FUNDING”, fill in each field and click submit. This will assign funding of a particular type to a particular project for a period of time.
 - Project: “AT-ST”
 - Funding Type: “Sales & Marketing”
 - Start: April/2018
 - End: March/2019
 - Funding Amount: 10
 - You should see that both the chart and the table are updated when you select “All Project” or “AT-ST” in the dropdown.
- Under “ADD/UPDATE FUNDING”, fill in each field and click submit. This will assign funding of a particular type to a particular project for a period of time.
 - Project: “AT-ST”
 - Funding Type: “Sales & Marketing”
 - Start: April/2018
 - End: March/2019
 - Funding Amount: 0 (Using a value of zero indicates deletion of funding).
 - You should see that both the chart and the table are updated when you select “All Project” or “AT-ST” in the dropdown.
- On the upper left of the screen, click on the “Discipline” button.
 - Proceed to page 9 of this demonstration.

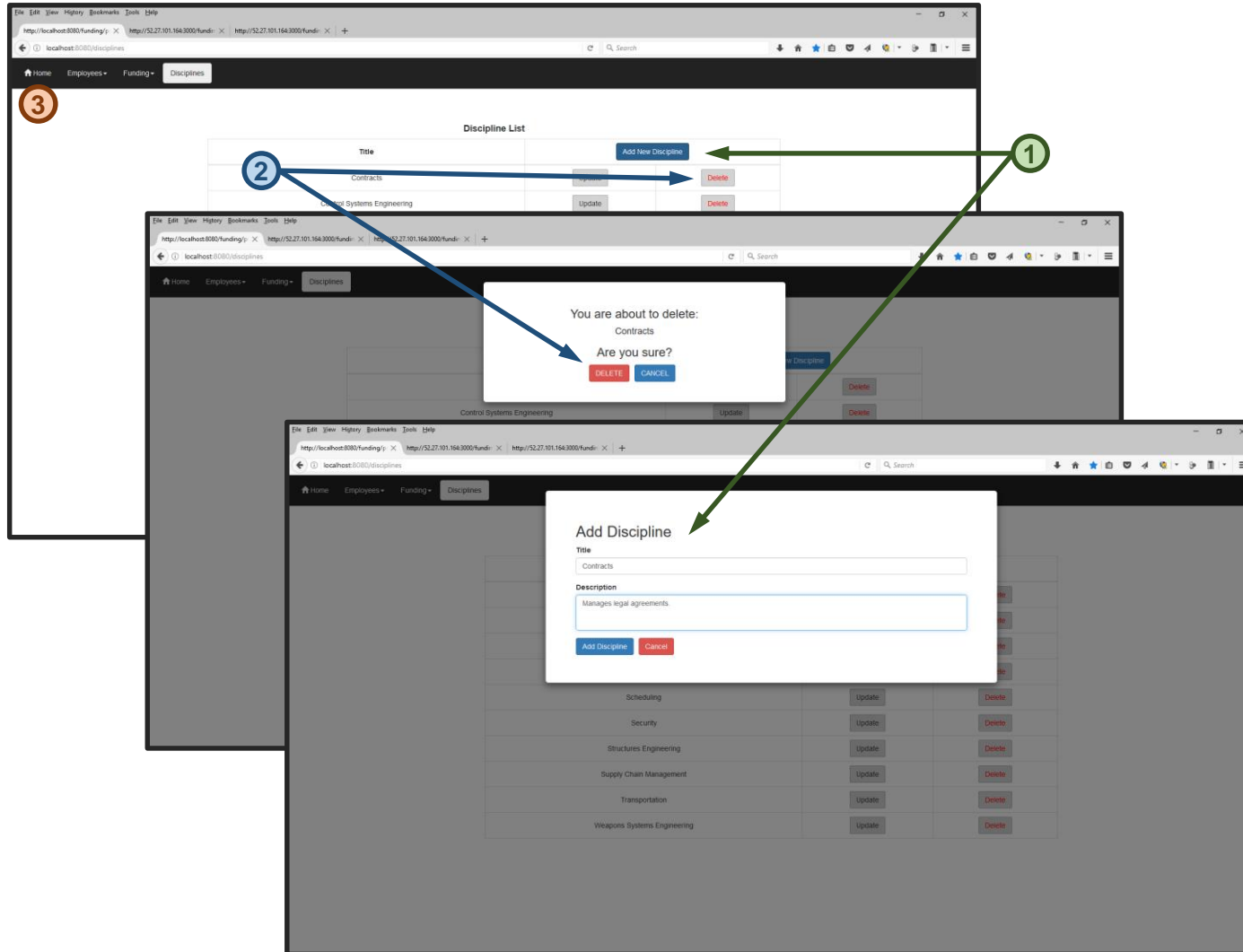
Discipline List Page

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Page 9

Description

This is a maintenance page where users can see the disciplines (skill or work groups) as defined by the organization. Disciplines can also be added, updated, or deleted from this page.



Demonstration Steps

- Click the “Add New Discipline” button, fill in each field and click submit.
- Click the “Delete” button next to “Contracts”.
 - You will get a warning.
 - Go ahead and click “Delete”.
 - The discipline “Contracts” will be removed from the list.
- On the upper left of the screen, click on the “Home” button.
 - Proceed to page 1 of this demonstration.