

Cal Poly Formula SAE Progress Management System

<https://www.calpolyracing.org/>

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BUS 493 - UX Analysis and Design

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System Request

Project Name: Cal Poly Formula SAE Progress Management System <i>calpolyracing.org</i>	
Project Sponsor	SAE Club President: Eli Schulz
Project Overview	<p>The purpose of this system request is to help the Cal Poly Formula SAE President and associates to accurately document work progress made on the Formula SAE combustion car. The system will help the President and their associates in documenting work completed, viewing work in progress, communication with team members, and overall data cohesion between all team members. The system will help manage the above with respect to 42 teams in total, allowing cohesive access to data as allowed by individuals credentials within the team. The system will also serve to reserve data to specific individuals based on their team, subteam, etc. in order to comply with information security requirements.</p>
Business Requirements	<p>The system will benefit the club by:</p> <ul style="list-style-type: none"> ● Allowing individuals access to cohesive work progress data as allowed depending on the individuals credentials ● Creating a more efficient way to communicate information between teams ● Increased data security
Business Value	<p>Reasonable expectations upon implementation</p> <ul style="list-style-type: none"> ● 12% improvement in information accessing speed ● 10% improvement in communication efficiency ● 15% improvement in car production completion

Special Issues/Constraints	<ul style="list-style-type: none"> ● Current system needs to keep data separated, each team can only have access to their specific team's data with their credentials ● Club members have concerns about switching over to different data management systems and learning how to utilize new systems ● Multifactor authorization system must be in place to ensure data security ● Cross validation system for approval of data transfer
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Use Cases

	Login
Title:	
Description:	This use case describes the process of logging into the system.
Primary Actor:	Formula Member
Trigger:	User would like to log in to the system.
Preconditions:	n/a
Normal Course:	<ol style="list-style-type: none"> 1. User selects “Login” option 2. System prompts username and password entry 3. User enters username and password, then selects “Log In” 4. System checks the validity of the user’s username and password. 5. System grants access to user
Postconditions:	<ol style="list-style-type: none"> 1. User is logged into the system
Alternative Courses:	
Exceptions:	The user does not have a valid username or password (Occurs at step 3)

	<p>1. System displays error message: “Invalid Credentials”.</p> <p>Continue at step 2.</p>
Priority:	High

Title:	Create Member Profile
Description:	This use case describes the process of creating a new Member profile.
Primary Actor:	Formula Member
Trigger:	A user wishes to create a new profile for a Member to the system.
Preconditions:	<ol style="list-style-type: none"> 1. User is logged into the system.
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Member” option on the menu 2. System displays the member landing page 3. User selects the “Create” option 4. System prompt user for member information with the Create Profile dialogue 5. User enters team Member information <ul style="list-style-type: none"> ● Member name ● Major ● Phone Number ● Cal Poly Email ● Member ID ● Username ● Password 6. User selects the “Save” option 7. System validates information

	8. System adds Member to database
Postconditions:	1. Member Profile is added to the Managerial Database
Alternative Courses:	
Exceptions:	<p>If user's email is not a Cal Poly email (occurs at step 3)</p> <p>1. System displays error message - "Please enter a valid Cal Poly email address"</p> <p>Continue at step 2.</p>
Priority:	High

Title:	Create Team
Description:	This use case describes the process of creating a team.
Primary Actor:	Formula Member
Trigger:	User wishes to create a new team.
Preconditions:	<ol style="list-style-type: none"> 1. User must be logged into the system 2. At least one member profile exists within the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Team” option in the menu 2. System displays the Team landing page 3. User selects the “Create Team” option 4. System displays the team creation dialogue 5. User enters the team information <ul style="list-style-type: none"> a. Team name b. Member IDs 6. User selects “Create” option 7. System sends an approval request to user 8. User accepts approval request 9. System saves the new team into database
Postconditions:	<ol style="list-style-type: none"> 1. Team information is saved in the Managerial Database

Alternative Courses:	
Exceptions:	<p>The user rejects the team creation request (Occurs at step 8)</p> <ol style="list-style-type: none"> 1. System displays an error message: "Team Creation Request Denied" <p>Continue at step 4</p>
Priority:	High

Title:	Create Data Container
Description:	This use case describes the process of creating a new data container.
Primary Actor:	Formula Member
Trigger:	User wishes to create a new data container.
Preconditions:	<ol style="list-style-type: none"> 1. User must be logged into the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Data” option in the menu 2. System displays the Data landing page 3. User selects the “Create New Data Container” option 4. System prompts user to create a title for the container 5. User enters a corresponding title and selects “Create” 6. System opens a new blank Data Container 7. System saves the data container into the database.
Postconditions:	<ol style="list-style-type: none"> 1. The data container is saved into the Formula Car Database
Alternative Courses:	
Exceptions:	If data container title already exists (occurs at step 4)

	<p>1. System displays an error message: “Data container title already exists. Please enter a different title.”</p> <p>Continue at step 4.</p> <p>If data container title is not entered (occurs at step 4)</p> <p>2. System displays an error message: “Please enter container title.”</p> <p>Continue at step 4.</p>
Priority:	High

Title:	View Data Container
Description:	This use case describes the process of viewing a data container.
Primary Actor:	Formula Member
Trigger:	User wishes to view an existing data container
Preconditions:	<ol style="list-style-type: none"> 1. User must be logged into the system 2. At least one data container must exist within the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Data” option on the menu 2. System displays the data landing page 3. User selects the ”View Data Container” option 4. System displays a list of all data containers in alphabetical order with a search option for refined criteria 5. User selects a data container and selects “View” 6. System displays the selected data container
Postconditions:	
Alternative Courses:	
Exceptions:	

Priority:	High
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	Title: Create Data Set
	Description: This use case describes the process of creating a new data set.
	Primary Actor: Formula Member
	Trigger: User wishes to create a new data set.
	Preconditions: 1. User must be logged into the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Data” option on the menu 2. System displays the data landing page 3. User selects the “Create Data Set” option 4. System prompts user to create a title for the data set 5. User enters a title and selects “Continue” 6. System prompts user to select the data container in which this file will be stored <ul style="list-style-type: none"> a. Listed alphabetically with search bar option for precise criteria 7. User selects a data container 8. User selects “Create” 9. System opens a new blank data set within the chosen data container 10. System saves data set within the data container into the database .
Postconditions:	1. Data set is saved in the Formula Car Database

Alternative Courses:	
Exceptions:	<p>The user enters data set title already exists (occurs at step 5)</p> <ol style="list-style-type: none"> 1. System displays an error message: "Data set title already exists. Please enter a different title." <p>Continue at step 4.</p>
Priority:	High

Title:	View Data Set
Description:	This use case describes the process of viewing a data set.
Primary Actor:	Formula Member
Trigger:	User wishes to view an existing data set.
Preconditions:	<ol style="list-style-type: none"> 1. User must be logged into the system 2. At least one data set must exist within the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Data” option on the menu 2. System displays the data landing page 3. User selects the ”View” option 4. System displays a list of all data sets in alphabetical order with a search option for refined criteria 5. User selects a data set 6. User selects “View” 7. System displays the selected data set
Postconditions:	
Alternative Courses:	
Exceptions:	

Priority:	High
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Title:	Generate Reports and Summaries
Description:	This use case describes the process of generating a report or a summary.
Primary Actor:	Formula Member
Trigger:	User wishes to compile a report or a summary.
Preconditions:	<ol style="list-style-type: none"> 1. User must be logged into the system
Normal Course:	<ol style="list-style-type: none"> 1. User selects the “Project” option on the menu 2. System displays the project landing page 3. User selects the “Generate Reports & Summaries” option 4. System displays dialogue <ul style="list-style-type: none"> a. Report/Summary Title b. Documents/Data sets included c. Date range d. How the report/summary is presented e. File type of saved document 5. User enters all fields of the dialogue 6. User selects the “Save” option 7. System saves document in the database 8. System displays the report/summary
Postconditions:	<ol style="list-style-type: none"> 1. Summary/report is saved in the databases

Alternative Courses:	
Exceptions:	<p>User does not enter information into one or more of the presented fields (Occurs at step 5)</p> <ol style="list-style-type: none"> 1. System displays error message: “Please complete all mandatory fields” 2. System highlights fields left blank <p>Continue at step 4.</p>
Priority:	High

PACT Analysis

Introduction:

Developing a system for the Cal Poly Formula SAE club requires an understanding of the individuals who will utilize our system, the tasks they aim to accomplish, the environments in which these tasks occur, and the technologies that will support these activities. By understanding the characteristics of each element, we can design a system that meets these diverse needs.

People:

Considering the unique nature of this club, we must evaluate the diverse characteristics of our members. Physically, members of this club vary in height, weight, and sensory abilities. In designing our system, we need to ensure that specific aspects in our system, such as our buttons and controls, are appropriately sized to be accessible by all kinds of users.

Psychologically, members possess varying cognitive abilities, memory retention, and language proficiency. Our system should offer intuitive navigation, clear instructions, and feedback mechanisms to support users with differing levels of expertise. Additionally, given the high turnover of club members, the system should be designed for easy onboarding of new members, ensuring they can quickly familiarize themselves with the system.

Socially, members have different goals, motivations, and levels of experience. Some may require more guidance and support, while others prefer autonomy. The system should facilitate effective communication and collaboration, essential for the club's teamwork-oriented projects.

Activities:

Next, we need to understand the activities a user aims to accomplish within our system, which includes: documenting work progress, viewing ongoing tasks, facilitating communication, and ensuring data coherence and security across all projects. Documenting work progress involves systematically recording various facets of a project, including design modifications, manufacturing updates, testing results, or any encountered issues. Users require access to real-time updates on projects to make informed decisions and track progress effectively. This emphasizes how crucial communication is among team members for proper collaboration. Therefore, the system will provide seamless methods for discussions, file sharing, and notifications to facilitate efficient communication.

Ensuring data coherence across all team members is vital for maintaining consistency. The system will offer mechanisms for organizing data systematically and enforcing standards to promote cohesion. Additionally, depending on the individual user's role on the project, they should only be able to access data which they need, excluding a user from viewing data that is involved in other roles that are not their own. To enforce data security, role-based access control is crucial to grant appropriate permissions based on users' roles and teams, ensuring access to only relevant data. The system must also be scalable to accommodate a large number of users and data inputs without compromising performance. Finally, to enhance user productivity, the system should feature an intuitive user-friendly interface with clear navigation pathways.

Context:

Furthermore, it is crucial to understand and accommodate for the physical, social, and organization context in which the system will be used. The system may be used in a variety of physical environments, ranging from outdoor to remote workspaces with limited resources. To address this variability, the system must be designed to be accessible and functional in various physical environments. For example, the system must be visible in different lighting conditions, regardless of whether users are outside in the sun, or working remotely. Another consideration is that the system should be usable for users who may have slower internet speeds.

Another element is the social context. It is important that there are enough resources to accommodate users with varying levels of expertise. This includes having clear documentation and training materials to help users navigate through the system. Also, members may need to share sensitive information related to their projects. Hence, the system should ensure the privacy and security of this data. The system should have features such as role-based access control and encryption to protect sensitive information and ensure it is only accessible to authorized users. Additionally, since club members work in teams, effective communication and collaboration are crucial for success. The system should facilitate easy communication between team members, and should have features such as instant messaging, file sharing, and task assignment.

The last element to consider is the organizational context. Given that this is a student-run organization, it's important to understand that the organizational structure differs from traditional, long-standing businesses. This means that the system should be capable of accommodating for the changes in leadership and team structure, as new Cal Poly students join

the club, and older Cal Poly students graduate from the college. Hence, the system should be intuitive and easy to use. Having a complex system would be inefficient for students who come and go from this club, as they would need to have more extensive training to use such a system. By aligning the system with the organizational context, it can better support the dynamic nature of student-run organizations and enhance overall efficiency.

Technologies:

Lastly, it is essential to consider the technological aspects to ensure that the system meets the needs of the users. The system must accommodate various input devices, such as touchscreens, styluses, and mice, to cater to different user preferences and needs. This project differs from others due to its need for adaptability of input methods, as users may be working in diverse physical environments, including outdoor workspaces and remote settings.

For output devices, the system must support a variety of display technologies, including screens and projects, to present data and information effectively. The system must also be capable of presenting information in different formats, such as text, images, and videos, to support diverse user requirements and activities.

Communication technologies are also crucial for enabling collaboration amongst team members. The system should support wireless communication methods, including Wi-Fi and Bluetooth, to facilitate data sharing and communication. Given the team's need for real-time updates, the system must prioritize speed and reliability in communication channels.

Content management is another key aspect, requiring the system to organize, present, and update data accurately and efficiently. It needs to manage complex data, including design specifications, manufacturing updates, and testing results, in a way that is accessible and understandable to all team members. The system should also support various media types, including videos or text documents, to cater to different content requirements.

Conclusion:

By applying the PACT framework, we can design a system that is user-centered, adaptable to different contexts, and technologically robust. This approach will help us create a system that meets the specific needs of the Cal Poly Formula SAE club.

Personas

Persona 1: President (*Version 1*)

- Name: Henry Vo
 - Age: 22
 - Role: President
 - Major: 4th Year Software Engineer
 - Exceptional College Student
 - Has a very busy schedule and maintains a serious attitude to get all of his tasks done
 - Already has post-college job offers lined up
 - Mostly studies on the weekends, but will leave one day for socializing
 - Enjoys outdoor activities in his limited free time
1. Henry sets up a tight schedule to ensure teams meet their deadlines on time, and organizes this using the progress management system.
 2. Henry oversees all of the club finances through the system. He usually checks this weekly, and can reach out to the finance officer with a direct system message if he has any concerns.
 3. If Henry notices that a certain team is behind schedule in their progress according to the system, he will send them a notification as a reminder that a specific deadline is coming up.
 4. He doesn't have permission to view all of the data sets, (according to the data access controls in place), but can request access to a particular set, which will send that team a request which they can accept or deny.
 5. Henry will notify all teams when there is an upcoming meeting, and includes meeting details in the message.
 6. Henry loves downloading report summaries from the system that summarizes each team's status on their projects, and communicates this to the club often to remind teams that are falling behind to pick up the pace.
 7. He thoroughly enjoys checking the system every day to monitor teams progress and overall keep the club from falling off of their timeline schedule.

Persona 2: President (*Version 2*)

- Name: Sara Liu
 - Age: 21
 - Role: President
 - Major: 3rd Year Electrical Engineer
 - Passionate about automotive design
 - Has an internship offer lined up
 - Also serves as Co Vice President in Cal Poly's CAPED club
 - Has a very busy schedule and is very forgetful
 - Enjoys going to parties in her free time
1. Sara often feels overwhelmed by her academic workload and club responsibilities, leading to stress and anxiety.
 2. Sara finds it challenging to keep track of team progress and delegate tasks effectively.
 3. Sara's oversight of the club's finances is inconsistent. She forgets to notify the finance officer to update the budget or of any other updates.
 4. Sara's personal life sometimes suffers due to her difficulty in balancing her various commitments.
 5. Due to Sara's lack of organizational skills, she may not always remember to request access to specific data sets when needed, which hinders her ability to make informed decisions.
 6. While Sara notifies all teams about upcoming meetings, she tends to forget to include meeting details in her messages.
 7. Sara doesn't always notice if a team is behind schedule, so she does not send them timely reminders about upcoming deadlines.
 8. Sara does not consistently review the report summaries, which could result in missed opportunities to address issues within the club. This could result in delayed responses to financial challenges or notice trends that could indicate financial problems.
 9. Sara frequently neglects to provide new members with the necessary access permissions. As a result, there may be delays in teams being able to communicate effectively with the new team members.

Persona 3: Engineer 1

- Name: Brendan So
 - Age: 28
 - Role: Engineer 1
 - Major: 5th Year Mechanical Engineer
 - Lead Engineer for the Chassis Team within the Cal Poly Formula SAE project
 - Highly skilled in mechanical engineering, with a focus on vehicle dynamics and structural integrity
 - Balances a rigorous work ethic with a passion for motorsports, often attending races and engineering workshops on weekends
 - Enjoys mountain biking and exploring new engineering software and tools
1. Works closely with other engineering sub-teams to ensure the chassis design supports overall vehicle performance goals.
 2. Values efficiency and precision in both design and communication, often working late hours to optimize chassis configurations.
 3. Brendan relies on the Cal Poly Formula SAE Progress Management System to track and document the chassis team's progress.
 4. He frequently updates design modifications and test results in the system, ensuring that related sub-teams are immediately informed of any changes.
 5. Brendan uses the system to coordinate with the aerodynamics and powertrain teams, ensuring that chassis adjustments are seamlessly integrated with other vehicle components.
 6. Despite his focus on the chassis, Brendan's role requires him to interact with various data sets from other teams. While he doesn't have automatic access to all data due to security protocols, he can request access when necessary for cross-team collaboration.
 7. Brendan is particularly attentive to the system's reporting features, often generating and reviewing progress reports to identify areas for improvement.
 8. Brendan's dedication to the Formula SAE project is evident in his daily use of the management system, constantly seeking ways to enhance the team's efficiency through technology.

Persona 4: Engineer 2

- Name: Mia Patel
 - Age: 20
 - Role: Engineer 2
 - Major: 3rd Year Electrical Engineer
 - Specializes in electrical systems and controls, with an interest in electric vehicle technology
 - Balances her schoolwork with a part-time job at a local automotive electronics company
 - Enjoys hiking and being in the outdoors
 - Enjoys experimenting with building new gadgets or learning about circuitry
 - Values innovation and sustainability, often exploring new technologies and methodologies to enhance the team's design
1. Mia regularly updates the system with design schematics, test data, and performance analyses, ensuring that the team is well-informed of any developments.
 2. Mia uses the system to coordinate with other engineering teams, such as the chassis and aerodynamics teams, to integrate the powertrain system into the overall vehicle design.
 3. Actively participates in design reviews and brainstorming sessions to contribute innovative ideas.
 4. Collaborates with other teams to integrate sensors and controls systems into the powertrain design.
 5. Communicates regularly with industry professionals and attends conferences to stay updated on the latest advances in electrical vehicle technology.
 6. Mia is very detail oriented and ensures that all the components of the system meet high quality standards.
 7. Takes initiative in troubleshooting and resolving electrical issues that arise during the development and testing phases.
 8. Embraces challenges as learning opportunities and seeks feedback from her mentors to continuously improve her engineering skills.
 9. Utilizes the system to update project budgets, ensuring the finance officer is informed of any changes or expenses of particular projects.

[iPhone Figma Prototype Link](#)

[iPad Figma Prototype Link](#)

LOGO



Reports

Generate Reports and Summaries

View Reports and Summaries

New Proposal



Home



Teams



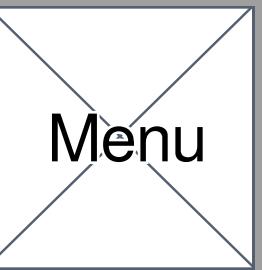
Financials



Data

LOGO

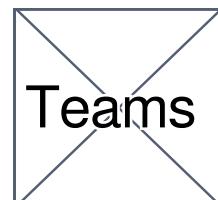
Reports



Generate Reports and Summaries

View Reports and Summaries

New Proposal



LOGO



Generate Report

Name

Team

Project

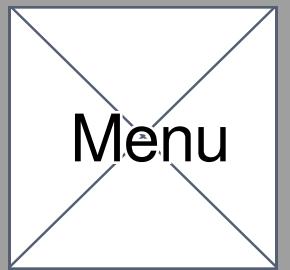
Date

Select File Type

Create



LOGO



Generate Report

Name

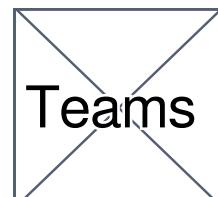
Team

Project

Date

Select File Type

Create



LOGO



Generate Report

Name

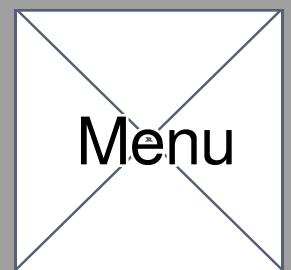
Team

Date Dropdown



LOGO

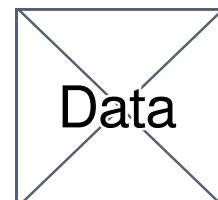
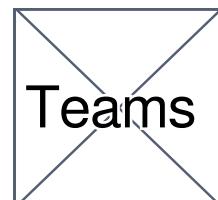
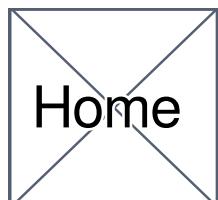
Generate Report



Name

Team

Date Dropdown



LOGO



My Teams

Search

Filter by

#

Car Type

Members

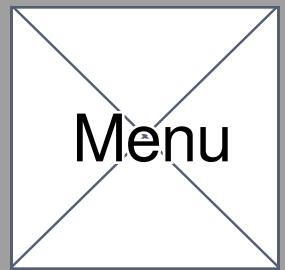
Scope

Add

Edit



LOGO



My Teams

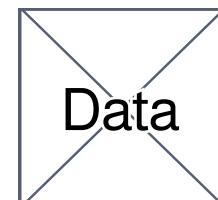
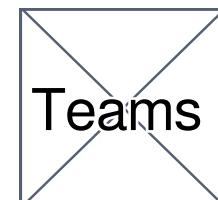
Search

Filter by

ID	Car Type	# Members	Scope

Add

Edit



LOGO



Create New Team

Car Type

Scope of Team Work

Add a Team Member

Name

Search by:

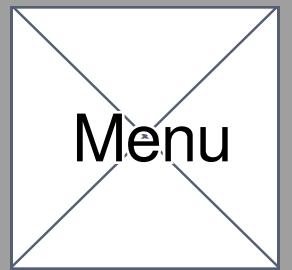
ID	Name	Major	Email

Add Another

Save



LOGO



Create New Team

Car Type

Scope of Team Work

Add a Team Member

Name

Search by:

ID

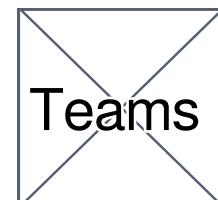
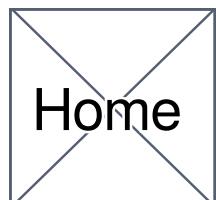
Name

Major

Email

Add Another

Save



LOGO



Your New Team

ID	Name	Major	Email

If this looks correct, please press confirm.

Confirm



Home



Teams

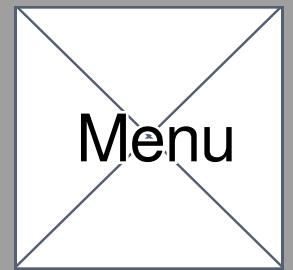


Financials



Data

LOGO

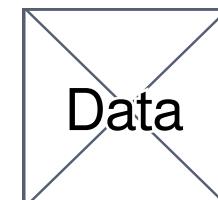
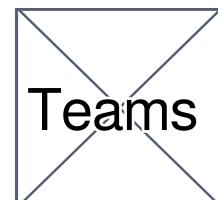


Your New Team

ID	Name	Major	Email

If this looks correct, please press confirm.

Confirm





Welcome!

Username

Password

[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)

LOGO

Welcome!

Username

Password

[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Hi, User.



Active Members

	Member
	Victor Lopatyuk
	Jim Burleson

Recent changes

ID	Name	Project	Change

[See all changes](#)



LOGO

Hi, User.

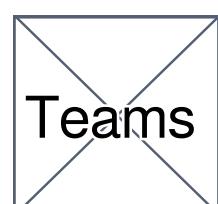
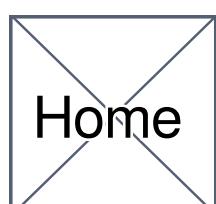
Menu

Active Members

-  Member
-  Member
-  Member

Recent changes

See all changes



LOGO



Members

Search

Filter by

ID	Name	Major	Email
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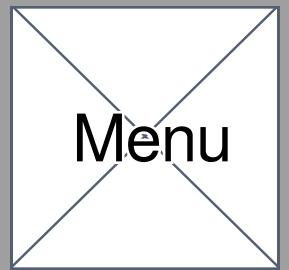
Add

Edit



LOGO

Members



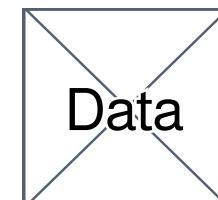
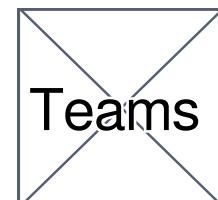
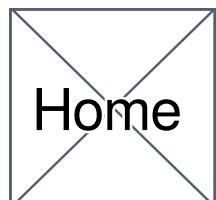
Search

Filter by

ID	Name	Major	Email

Add

Edit





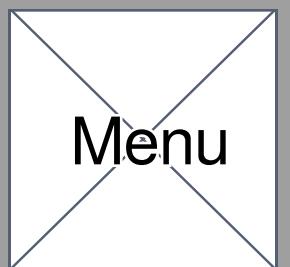
Username

Password

Log In



LOGO



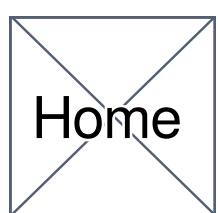
Username

A white rectangular input field for entering a username.

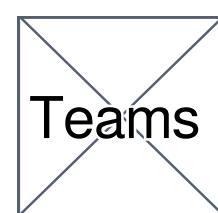
Password

A white rectangular input field for entering a password.

Log In



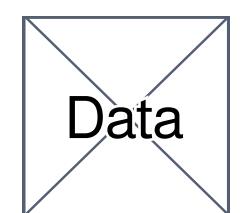
Home



Teams



Financials



Data

LOGO



Create Member Profile

Member Name

Phone Number

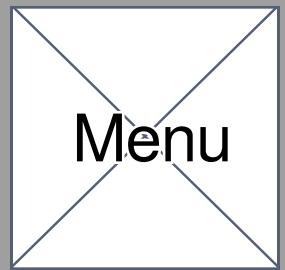
Email Address

Major

Save



LOGO



Create Member Profile

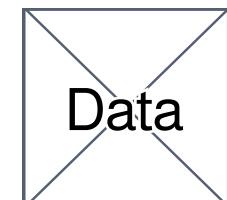
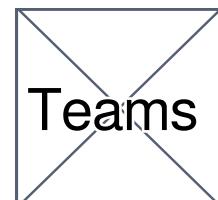
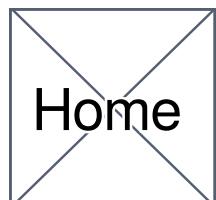
Member Name

Phone Number

Email Address

Major

Save



LOGO



Data

Create Data Container

View Data Container

Edit Data Container

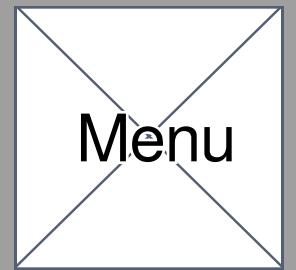
Create Data Set

View Data Set

Edit Data Set



LOGO



Data

Create Data Container

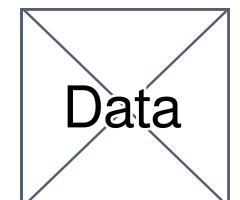
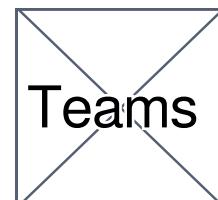
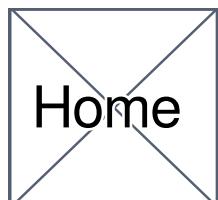
View Data Container

Edit Data Container

Create Data Set

View Data Set

Edit Data Set



LOGO



Create Data Container

Name

Team

Project

Create



Home



Teams

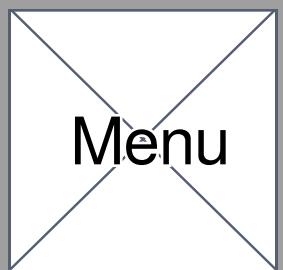


Financials



Data

LOGO



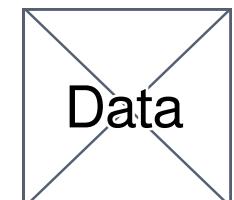
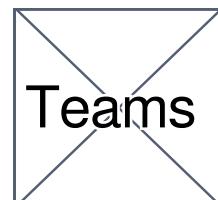
Create Data Container

Name

Team

Project

Create



LOGO



Create Data Set

Enter Data Set Title

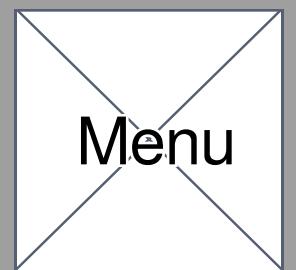
Select Data Container

Upload File

Create



LOGO



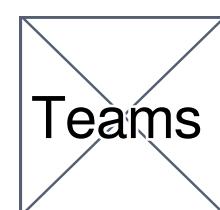
Create Data Set

Enter Data Set Title

Select Data Container

Upload File

Create





View Data Container

Search

Data Containers

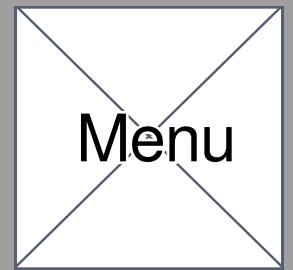
Data Container X

Data Container Y

Data Container Z



LOGO



View Data Container

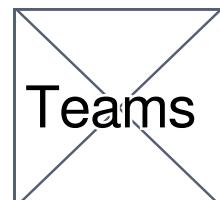
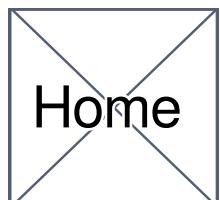
Search

Data Containers

Data Container X

Data Container Y

Data Container Z



LOGO



Data Container Y

Search

Datasets

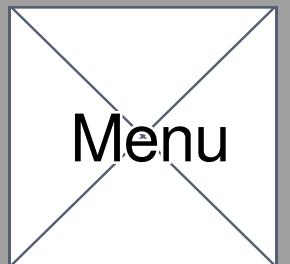
ECU Data 2/1/2024

Coeff. Drag 1/24/2024

Tire Pressure 2/22/2024



LOGO



Data Container Y

Search

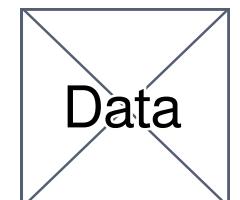
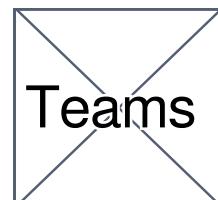
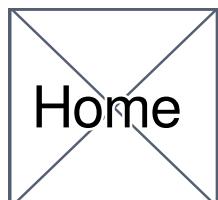
Datasets

ECU Data 2/1/2024

Coeff. Drag 1/24/2024

Tire Pressure 2/22/2024

Financial Report 2/15/2024



LOGO



View Data Set

Search

Datasets

ECU Data 2/1/2024

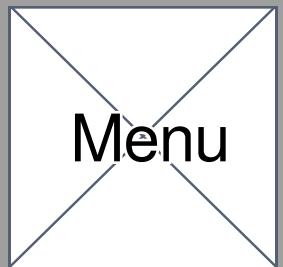
Coeff. Drag 1/24/2024

Tire Pressure 2/22/2024

[View All Datasets](#)



LOGO



View Data Set

Search

Datasets

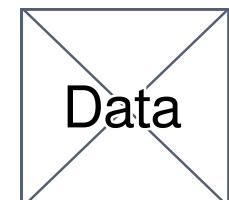
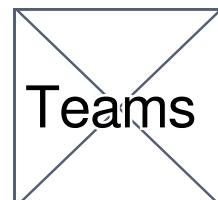
ECU Data 2/1/2024

Coeff. Drag 1/24/2024

Tire Pressure 2/22/2024

Financial Report 2/15/2024

[View All Datasets](#)



LOGO



ECU Data 2/1/2024

Time

ECT

TPS



Home



Teams

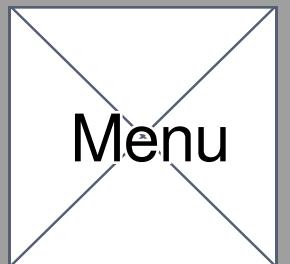


Financials



Data

LOGO



ECU Data 2/1/2024

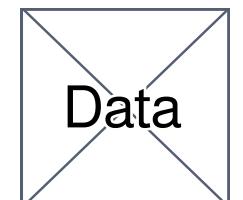
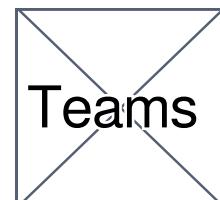
Time

ECT

TPS

O2

TPS



Team



Drivetrain

Electrical Systems

Suspension

Team



- Drivetrain
- Electrical Systems
- Suspension

Project



Dyno Testing

Wind Tunnel

CFD

Project



Dyno Testing

Wind Tunnel

CFD

Save As...



.pdf

.docx

.csv

Save As...



.pdf

.docx

.CSV



Reports

Generate Reports and Summaries

View Reports and Summaries

New Proposal





Reports

Generate Reports and Summaries

View Reports and Summaries

New Proposal





Generate Report

Name

Team



Project



Date



Select File Type



Create





Generate Report

Name

Team

Project

Date



Select File Type



Create





Generate Report

Manufacturing Progress

Team



Project



Date



Save As...



Create





Generate Report

Manufacturing Progress

Team



Project



Date



Save As...



Create





Generate Report

Manufacturing Progress

Electrical Systems



Project



Date



Save As...



Create



Generate Report

Manufacturing Progress

Electrical Systems

Project

Date



Save As...



Create





Generate Report

Manufacturing Progress

Electrical Systems



Wind Tunnel



Date



Save As...



Create



Generate Report

Manufacturing Progress

Electrical Systems

Wind Tunnel

Date



Save As...



Create





Generate Report

Manufacturing Progress

Electrical Systems



05 / 09 / 1994



May 1994



Mon

Tue

Wed

Thu

Fri

Sat

Sun

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Clear

Apply



Generate Report

Manufacturing Progress

Electrical Systems

Wind Tunnel

05 / 09 / 1994



May 1994



Mon

Tue

Wed

Thu

Fri

Sat

Sun

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31

Clear

Apply





Generate Report

Manufacturing Progress

Electrical Systems



Wind Tunnel



05/09/1994



Save As...



Create





Generate Report

Manufacturing Progress

Electrical Systems

Wind Tunnel

05 / 09 /1994



Save As...



Create





Generate Report

Manufacturing Progress

Electrical Systems



Wind Tunnel



05/09/1994



.pdf



Create





Generate Report

Manufacturing Progress

Electrical Systems

Wind Tunnel

05 / 09 /1994



.pdf



Create





My Teams



Filter by: ID



ID	Car Type	# Members	Scope
----	----------	-----------	-------

1	Formula SAE	6	Financials
---	-------------	---	------------

2	Baja SAE	3	Part Manufacturing
---	----------	---	--------------------

3	Formula Electric	9	Marketing
---	------------------	---	-----------

4	Formula Electric	7	Part Manufacturing
---	------------------	---	--------------------

Add

Edit





My Teams



Filter by: ID

ID	Car Type	# Members	Scope
1	Formula SAE	6	Financials
2	Baja SAE	3	Part Manufacturing
3	Formula Electric	9	Marketing
4	Formula Electric	7	Part Manufacturing
5	Baja SAE	2	Financials

Add

Edit



Car Type



Formula SAE

Formula Electric

Baja SAE

Car Type



- Formula SAE
- Formula Electric
- Baja SAE

Success

New team successfully created

[Return](#)



Create New Team

Car Type



Scope of Team Work

Add a Team Member



Search by:

ID



Save





Create New Team

Car Type



Scope of Team Work

Add a Team Member



Search by: ID

Save





Create New Team

Formula SAE



Scope of Team Work

Add a Team Member



Search by:

ID



Save





Create New Team

Formula SAE



Scope of Team Work

Add a Team Member



Search by: ID

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member



Search by:

ID



Save





Create New Team

Formula SAE



Part Manufacturing

Add a Team Member



Search by: ID

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

1124



Search by:

ID



Save





Create New Team

Formula SAE



Part Manufacturing

Add a Team Member

1124



Search by: ID

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

1124



Search by:

ID



ID

Name

Major

Email

1124

Darlene Robin

Business

drobin@calpoly.edu



Save





Create New Team

Formula SAE

Part Manufacturing

Add a Team Member

1124



Search by: ID

ID	Name	Major	Email
1124	Darlene Robertson	Business	drobin@calpoly

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

1124



Search by:

ID



ID

Name

Major

Email

1124

Darlene Robin

Business

drobin@calpoly.edu



Add Another

Save





Create New Team

Formula SAE

Part Manufacturing

Add a Team Member

1124



Search by: ID

ID	Name	Major	Email
1124	Darlene Robertson	Business	drobin@calpoly

Add Another

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member



Search by:

ID



Save





Create New Team

Formula SAE



Part Manufacturing

Add a Team Member



Search by: ID

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

6231



Search by:

ID



Save





Create New Team

Formula SAE



Part Manufacturing

Add a Team Member

6231



Search by: ID

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

6231



Search by:

ID



ID

Name

Major

Email

6231

Ronald Richards

Com Sci

rrichar@calpoly.edu



Save





Create New Team

Formula SAE

Part Manufacturing

Add a Team Member

6231



Search by: ID

ID	Name	Major	Email
6231	Ronald Richards	Com Sci	rrichar@calpoly

Save





Create New Team

Formula SAE



Parts Manufacturing

Add a Team Member

6231



Search by:

ID



ID

Name

Major

Email

6231

Ronald Richards

Com Sci

rrichar@calpoly.edu



Add Another

Save





Create New Team

Formula SAE

Part Manufacturing

Add a Team Member

6231



Search by: ID

ID	Name	Major	Email
6231	Ronald Richards	Com Sci	rrichar@calpoly

Add Another

Save





Your New Team

ID	Name	Major	Email
1124	Darlene Robin	Business	drobin@calpoly.edu
6231	Ronald Richards	Comp Sci	rrichar@calpoly.edu

If this looks correct, please press confirm.



Confirm





Your New Team

ID	Name	Major	Email
1124	Darlene Robertson	Business	drobin@calpoly
6231	Ronald Richards	Computer Science	rrichard@calpoly

If this looks correct, please press confirm.

Confirm





Welcome!

Username

Password



[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Welcome!

Username

Password



[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Welcome!

Username

A white rectangular input field with rounded corners containing the text "clubadmin".

Password

A white rectangular input field with rounded corners containing the placeholder text "Password".

[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Welcome!

Username

Password



[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Welcome!

Username

A white rectangular input field with rounded corners containing the text "clubadmin".

Password

A white rectangular input field with rounded corners showing eight black circular dots representing masked password characters.

[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Welcome!

Username

Password



[Forgot Password?](#)

Log In

Don't have an account? [Register here](#)



Hi, Jim.



Active Members



John Smith



Victor Lopatyuk



Jim Burleson

+ 9 others

Recent changes

#	Name	Project	Changes
1	Darlene So	Drivetrain	Data Uploaded
2	Ronald Vo	Aero	Container Created
3	John Smith	Electrical	Data Set Created

See all changes





Hi, Jim.



Active Members

-  John Smith
-  Victor Lopatyuk
-  Jim Burleson

+ 9 others

Recent changes

#	Name	Project	Changes
1	Darlene So	Drivetrain	Data Uploaded
2	Ronald Vo	Aero	Container Created
3	John Smith	Electrical	Data Set Created
4	Jerome Bell	Suspension	Data Set Created
5	Jo Richards	Suspension	Data Uploaded

[See all changes](#)





Members



Filter by: Name ◀

ID	Name	Major	Email
1140	Darlene So	Bus Admin	dso30@calpoly.edu
6351	Ronald Vo	Indust Eng	rvo12@calpoly.edu
2003	John Smith	Electric Eng	jsmith@calpoly.edu

Add

Edit





Members

Filter by: Name▼

ID	Name	Major	Email
1140	Darlene So	Bus Admin	dso30@calpoly.edu
6351	Ronald Vo	Indust Eng	rvo12@calpoly.edu
2003	John Smith	Electric Eng	jsmith@calpoly.edu
5437	Jerome Bell	Comp Sci	jbell1@calpoly.edu
9823	Jo Richards	Bus Admin	jrich17@calpoly.edu

[+ Add](#)[>Edit](#)



Only board members can add a new student to the club member list.

Please authenticate your credentials below.

[Return](#)



[Log In](#)





Only board members can add a new student to the
club member list.
Please authenticate your credentials below.

[Return](#)

Password

Input text



[Log In](#)





Username

Input text

Password

Input text



Log In





Username

Input text

Password

Input text



Log In





Username

clubadmin

Password

Input text



Log In





Username

Password



Log In





Username

clubadmin

Password

• • • • • • • •



Log In





Username

Password



Log In





Create Member Profile

Name

Phone Number

Email Address

Major



Save





Create Member Profile

Name

Phone Number

Email Address

Major



Save





Create Member Profile

John Smith

Phone Number

Email Address

Major



Save





Create Member Profile

John Smith

Phone Number

Email Address

Major



Save





Create Member Profile

John Smith

(425) 677-7268

Email Address

Major



Save





Create Member Profile

John Smith

(425) 677-7268

Email Address

Major



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@gmail.com

Major



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@gmail.com

Major



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@gmail.com

Business



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@gmail.com

Business



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@calpoly.edu

Business



Save





Create Member Profile

John Smith

(425) 677-7268

jsmith12@calpoly.edu

Business



Save



Success

New member successfully created

[Return](#)



Jim Burleson

User 0987654321



Settings >



Account >



Members >



Sign Out >



Help >

Major



Business

Engineering

Computer Science

Major



○ Business

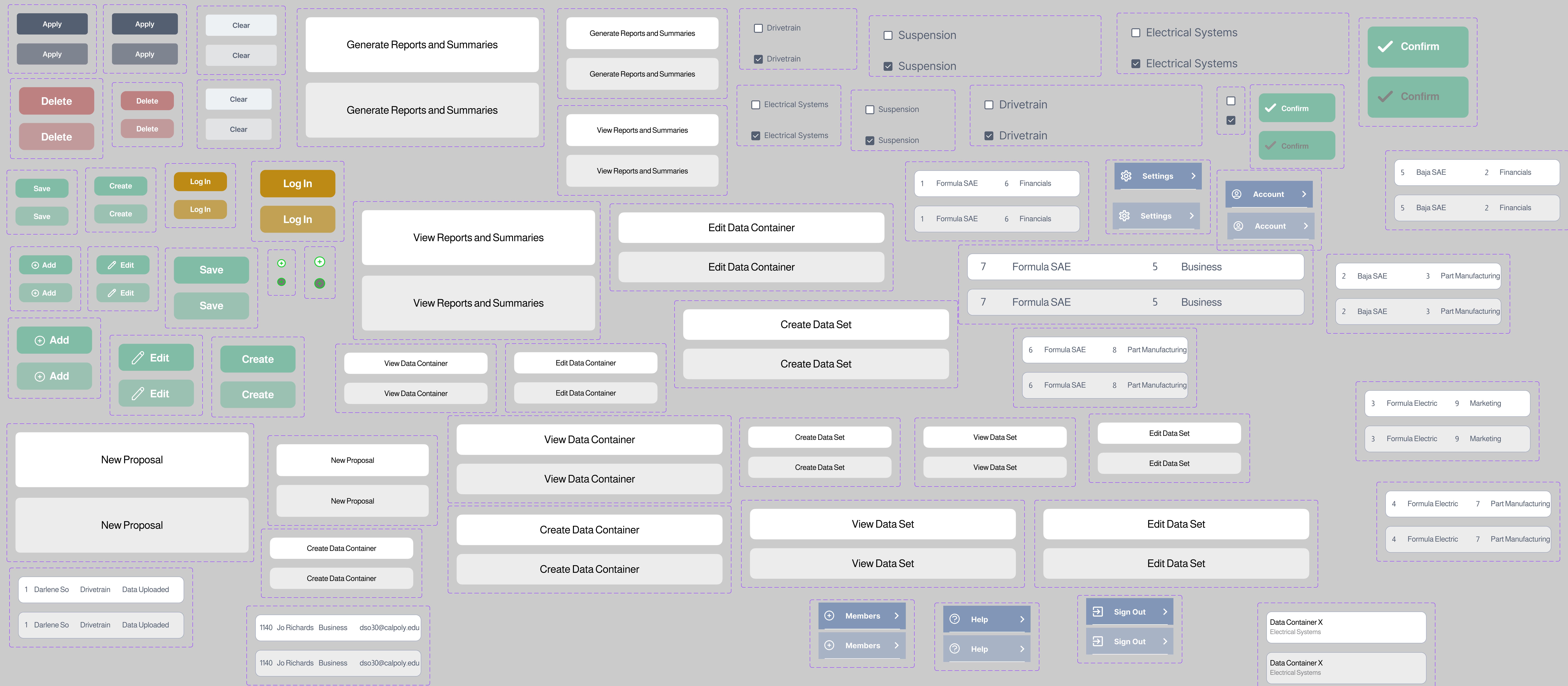
○ Engineering

○ Computer Science

Error

Please enter a valid Cal Poly email address

[Return](#)





Jim Burleson

User 0987654321



Settings



Account



Members



Sign Out



Help



Team



- Drivetrain
- Electrical Systems
- Suspension

Project



Dyno Testing

Wind Tunnel

CFD

Project



Dyno Testing

Wind Tunnel

CFD

Select Data Container



- Data Container X
- Data Container Y
- Data Container Z

Select Data Container



Data Container X

Data Container Y

Data Container Z



Create Data Container

Name

Team



Project



Create





Create Data Container

Name

Team

Project

Create



Team



Drivetrain

Electrical Systems

Suspension



Create Data Container

Data Container X

Team



Project



Create





Create Data Container

Data Container X

Team



Project



Create





Create Data Container

Data Container X

Electrical Systems



Project



Create





Create Data Container

Data Container X

Electrical Systems



Project



Create





Create Data Container

Data Container X

Electrical Systems



Wind Tunnel



Create





Create Data Container

Data Container X

Electrical Systems



Wind Tunnel



Create





Create Data Container

Data Container Z

Electrical Systems



Wind Tunnel



Create





Create Data Container

Data Container Z

Electrical Systems



Wind Tunnel



Create





Create Data Set

Enter Data Set Title

Select Data Container



Upload File

Create





Create Data Set

Enter Data Set Title

Select Data Container



Upload File

Create





Create Data Set

ECU Data 1/1/2024

Select Data Container



Upload File

Create





Create Data Set

ECU Data 1/1/2024

Select Data Container

Upload File

Create





Create Data Set

ECU Data 1/1/2024

Data Container Y



Upload File

Create





Create Data Set

ECU Data 1/1/2024

Data Container Y



Upload File

Create





Create Data Set

ECU Data 2/1/2024

Data Container Y



Upload File

Create





Create Data Set

ECU Data 2/1/2024

Data Container Y



Upload File

Create





Data

Create Data Container

View Data Container

Edit Data Container

Create Data Set

View Data Set

Edit Data Set





Data

Create Data Container

View Data Container

Edit Data Container

Create Data Set

View Data Set

Edit Data Set





View Data Container

Search

Data Containers

Data Container X

Electrical Systems

Data Container Y

Aero

Data Container Z

Suspension

Data Container X.1

Business





Data Container X

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension

Financial Report 2/15/2024

Business





Data Container Y

 Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension





Data Container Y

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension

Financial Report 2/15/2024

Business





Data Container Z

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension

Financial Report 2/15/2024

Business





View Data Set

 Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension

[View All Datasets](#)





Data Container X

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension





ECU Data 2/1/2024

Time

Hours

ECT

Fahrenheit

TPS

%





Coeff. Drag 1/24/2024

Time

Hours

Component

Component

Coefficient of Drag

Coefficient of Drag





Data Container Z

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension





View Data Set

Search

Datasets

ECU Data 2/1/2024

Electrical Systems

Coeff. Drag 1/24/2024

Aero

Tire Pressure 2/22/2024

Suspension

Financial Report 2/15/2024

Business

[View All Datasets](#)





Coeff. Drag 1/24/2024

Time

Hours

Component

Component

Coefficient of Drag

Coefficient of Drag

Wind Tunnel Testing

Testing

Aerodynamics

Analysis





Tire Pressure 2/22/2024

Time

Hours

Tire Temperature

Fahrenheit

Pressure

PSI





View Data Container

 Search

Data Containers

Data Container X

Electrical Systems

Data Container Y

Aero

Data Container Z

Suspension





ECU Data 2/1/2024

Time

Hours

ECT

Fahrenheit

TPS

%

O2

Oxygen Sensor

TPS

Throttle Position Sensor





Tire Pressure 2/22/2024

Time

Hours

Tire Temperature

Fahrenheit

Pressure

PSI

Procedures

Maintenance

TPMS

Tire Pressure Monitoring System

