



## FRC Scout

# FRC Scout Paper Prototype

The following pages have been created using Balsamiq Mockups. The pages have been linked in a way such that tabs, buttons and hyperlinks that are shaded red are clickable and will redirect to the appropriate page upon being clicked.

This mockup shows the perspective of a user with the administrator user role. Administrators are permitted to view, add, modify and delete all data in the system.

To begin, click the Start button

[Start](#)

CS 451 Group2 Paper Prototype

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## FRC Scout

Login

Email Address

Password

[Forgot password?](#)

Login

Please contact your system administrator to reset your password

From the login page, the user can enter his e-mail address and password to log into the system. Clicking the 'Login' button redirects the user to the event view page



# FRC Scout

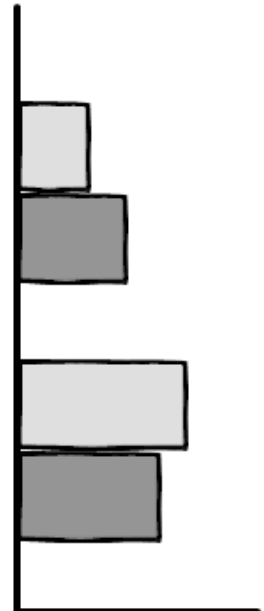
[View Data](#)[Manage My Scout Data](#)[System Administration](#)Administrator [Log Out](#)[Group by Event](#)[Group By Team](#)

Select Event:

Most Recent Event ▼

[Go](#)[Overview](#)[View Match](#)[View Team](#)

Team Number ▼	Points Scored ▼	Auton Points ▼
25	200	80
103	187	70
341	184	62
365	175	73
11	155	70
1279	159	62



This tab shows general data for an event selected by the combo-box. Selecting a new event and clicking the 'Go' button re-populates the table and charts with data related to the newly selected event.

The chart shows points scored by each team in the event, so the user can visually compare the performance of one team versus another.

Any of the other tabs can be clicked to show different views of the data



# FRC Scout

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[Group by Event](#)
[Group By Team](#)

Select Event:

Most Recent Event ▼

Go

[Overview](#)
[View Match](#)
[View Team](#)

## Match 13

 Match Search

### Red Team

Team#	Auton Pts	Teleop Pts	Climb Pts	Total
32	18	12	10	40
11	12	24	30	66
5	0	2	10	12
Total	30	38	50	118

### Blue Team

Team#	Auton Pts	Teleop Pts	Climb Pts	Total
46	18	12	10	40
30	12	24	30	66
77	0	2	10	12
Total	30	38	50	118

[View Match Record](#)

This tab shows data grouped by event, grouped by match, grouped by alliance. The match can be changed by typing the match number into the search box. A particular match record can be viewed by selecting a match from one of the tables and clicking the 'View Match Record' button.



# FRC Scout

[View Data](#)[Manage My Scout Data](#)[System Administration](#)Administrator [Log Out](#)

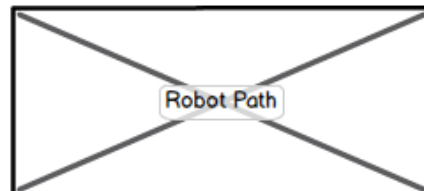
## Match 11

Data recorded by Scout1

Event Name: Regionals

Team Number: 15

Alliance Color: Blue



### Autonomous

Shots scored in each goal

Top: 3

Middle: 1

Bottom: 0

### Teleoperated

Shots scored in each goal

Top: 3

Middle: 1

Bottom: 0

Pyramid 5

### End Game

What level did the robot reach? 2

### Post Match

Robot play style: Offensive

How confident would you be to select this robot as an alliance partner? 2/5

How well does the team pick up discs? 4/5

Did the robot commit any penalties?

☐ Foul☒ Technical Foul

Comments: The robot got stuck in a corner in autonomous mode

[Return](#)

This page displays the full match record data recorded by a scout. The return button redirects the user to the previous page they were on.

For the purposes of this demonstration, the return button returns to the View Match tab on the Group by Event tab.



# FRC Scout

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[Manage My Scout Data](#)
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 Administrator [Log Out](#)
[Group by Event](#)
[Group By Team](#)

Select Event:

Most Recent Event ▼

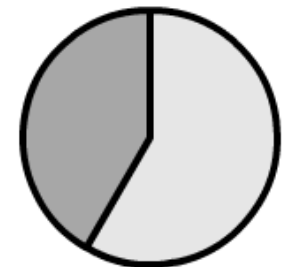
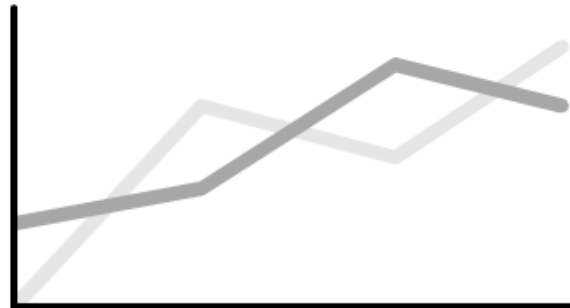
Go

[Overview](#)
[View Match](#)
[View Team](#)

## Team 25

 Team Search

Match	Auton Pts	Teleop Pts	Climb Pts	Total
1	18	12	10	40
22	12	24	30	66
31	0	2	10	12

[View Match Record](#)


This tab displays data on a particular team's performance at the selected event. The team can be selected by typing the team number into the search box.

The match record can be viewed by selecting a match from the table and clicking the 'View Match Record' button.

For the purposes of this demonstration, the button has been disabled.

The line chart shows the points scored by a team over their different matches at an event.

The pie chart shows a total of autonomous points, teleoperated points, and climb points scored at the event



# FRC Scout

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 Administrator [Log Out](#)
[Group by Event](#)
[Group By Team](#)

Select Team

Team 22

Go

[Team Profile](#)
[View Matches](#)

## Event Averages

Event	Auton Pts	Teleop Pts	Climb Pts	Total
1	18	12	10	40
2	12	24	30	66
3	0	2	10	12
Overall	10	15	16	39

Profile Picture

Upload New Picture

Radar Chart

The Group by Team tab displays data recorded about a selected team. The team can be change by selecting a team from the combo-box and clicking 'Go'. Doing so will re-populate content on the page with data about the selected team.

The profile picture on this page can be changed by clicking the 'Upload New Picture' button. The newly uploaded picture will replace the previous picture on the page.

The line chart will show total points scored by the team at each event, so the user can view a team's progress over time.

The radar chart will show the averages of autonomous points, teleoperated points and climb points scored so the user can visualize where the team's strengths and weaknesses for point scoring are.



# FRC Scout

[View Data](#)[Manage My Scout Data](#)[System Administration](#)Administrator [Log Out](#)[Group by Event](#)[Group By Team](#)

Select Team

Team 22 ▼

[Go](#)[Team Profile](#)[View Matches](#)

Event	Match	Auton Pts	Teleop Pts	Climb Pts	Total
Regionals	33	18	12	10	40
Districts	21	12	24	30	66
Regionals	10	0	2	10	12

[View Match Record](#)

This tab displays all matches the selected team has participated in. The match record data can be viewed by selecting a match from the grid and clicking the 'View Match Record' button. For the purposes of this demonstration, the button has been disabled.





## FRC Scout

[View Data](#)[Manage My Scout Data](#)[System Administration](#)Administrator [Log Out](#)

### My Data

[Add](#) [Edit](#) [Delete](#)

Event	Team	Match	Scout
Regionals	35	2	Scout1
Regionals	33	12	Scout1
Nationals	33	5	Scout2

This page allows a scout to manage data that he has entered into the system. The administrator can manage data that has been entered by all other scouts and administrators.

Data can be added by clicking the add button. Data can be modified and deleted by selecting an existing entry from the list and clicking the edit or delete button.

This page allows a scout or administrator to enter a match record into the system. There is a form field for each datapoint being collected for the match.

This page features a canvas containing a picture of the arena, allowing the user to draw the path the robot took during the autonomous round.

The user can add a team to the system by clicking the '+' button located next to the team combo-box. For the purposes of this demonstration, the button has been disabled.

FIRST Robotics competition scout data organization and analysis

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http://localhost:8080/frcscout/addmatchrecord.jsp

🔍

FRC Scout

[View Data](#)

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New Match Record

Event Name

Most Recent Event ▼

Update

Match Number

Team Number

Select Team ▼

+  
Add new team

☒ Red

☐ Blue

Canvas of arena

Autonomous

Shots scored in each goal

Top:

3

Middle:

1

Bottom:

0

Teleoperated

Shots scored in each goal

Top:

3

Middle:

1

Bottom:

0

Pyramid

2

End Game

What level did the robot reach?

☐ 0 ☐ 1 ☐ 2 ☐ 3

Post Match

Robot play style: ☒ Offensive ☐ Defensive

How confident would you be to select this robot as an alliance partner?  
Not at all ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 very

How well does the team pick up discs?  
Not at all ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 very

Did the robot commit any penalties?  
☐ Foul  
☒ Technical Foul

Comments:

Submit

Cancel



## FRC Scout

[View Data](#)[Manage My Scout Data](#)

System Administration

Administrator [Log Out](#)

Accounts

Teams

Events

## Manage Accounts

[Add](#)[Edit](#)[Delete](#)

Account Name ▼	First Name ▼	Last Name ▼	Role ▼	Active?
Admin@email.com	Adam	Doe	Administrator	Yes
Scout1@email.com	Scott	Smith	Scout	Yes
Scout2@email.com	Sally	Jefferson	Scout	No
Parent@email.com	Paul	Jefferson	Team Member	Yes

This page allows administrators to manage account data.

New accounts can be created by clicking the add button. Accounts can be modified or deleted by selecting an existing account from the grid and clicking the edit or delete buttons.



## FRC Scout

[View Data](#)[Manage My Scout Data](#)[Manage Accounts](#)

Administrator

[Log Out](#)

### Add Account

#### Account Information

E-mail Address:

Password:

Re-type Password:

Account Type:

- ☒ Team Member  
☐ Scout  
☐ Administrator

#### User Information

First Name

Last Name

An administrator can create a new account from this page. A new user is expected to ask the administrator to create an account for him.



## FRC Scout

[View Data](#)[Manage My Scout Data](#)

System Administration

Administrator [Log Out](#)

Accounts

Teams

Events

## Manage Events

Add

Edit

Delete

Event Name ▼	Location ▼	Start Date ▼	End Date ▼
District Championships	Philadelphia, PA	2/1/2013	2/4/2013
Regionals	Harrisburg, PA	4/3/2013	4/4/2013

This page allows administrators to manage event data.

New events can be added by clicking the add button. Event information can be modified or deleted by selecting an existing event from the grid and clicking the edit or delete buttons.



## FRC Scout

[View Data](#)[Manage My Scout Data](#)[Manage Accounts](#)

Administrator

[Log Out](#)

### Add Event

Event Name

Location

Start Date

End Date

Select Game:

2012-2013 Game ▼

An administrator can create a new event from this page



## FRC Scout

[View Data](#)[Manage My Scout Data](#)

System Administration

Administrator [Log Out](#)

Accounts

Teams

Events

## Manage Teams

Add

Edit

Delete

Team Number ▼	Team Nickname ▼	Location
25	Owls	Philadelphia, PA
33	Sandstorm	Newton, PA

This page allows administrators to manage team data.

New teams can be added by clicking the add button. Team information can be modified or deleted by selecting an existing team from the grid and clicking the edit or delete buttons.



## FRC Scout

[View Data](#)[Manage My Scout Data](#)[Manage Accounts](#)

Administrator

[Log Out](#)

### Add Team

Team Number

Team Name

Location

An administrator can create a  
new team from this page