

UX Design, V1.0

Prof Bill, Mar 2017

V0.1 - Wed Apr 12 2017

V1.0 - Sat Apr 22, 2017

This is a detailed description of the UX (User Experience) for Operation Dinner Out.

The sections are:

- A. Goal
- B. Philosophy
- C. Tech Specs
- D. Screens
- E. Etc

thanks... yow, bill

PS - Three things define our Capstone2017 culture:

Ownership, Teamwork, Customer focus

A. Goal

Our project goal is simple: make our users happy.

Our users are the teachers of students with autism at Turning Pointe. They are predominantly women (nearly 90%). They are busy. They do a lot with pen and paper and are very interested in automation that makes their job easier and more effective.

B. Philosophy

Our design will be driven by these choices, our philosophy (in order of importance):

- **Simple**, easy to use... over complex features
- Our solution must be **beautiful**... this will only happen with a dedication to UX aesthetics and consistency
- We are building a **solution**... not a tool; we're building an axe, not a Swiss army knife. We will favor **fixed** features with few options... over programmatic

C. Tech specs

Some technical choices:

- **Web application**... not an app
 - ◆ Runs GREAT on an iPad or anything bigger
 - ◆ Runs OK on a small screen, like a cellphone
 - ◆ Runs in any current browser (nothing archaic)
- **Colors**: red, blue, yellow, light blue... borrowed from the autism awareness ribbon
- Student **pseudonyms** or initials... never names
- Attach **notes** to anything, anywhere possible... teachers deal with lots of special situations that require extra explanation
- Always provide an escape hatch for data to **Excel**
- **Graphical**, where possible... over textual (I am uncertain about this?!?)
 - ◆ Icons over text menus?
 - ◆ Behavior squares? Academic lesson stars?
 - ◆ Need a digital artist for sprites and icons?

D. Screens

This section has:

- Screen Index - a table of all the screens in Dinner Out
- Screens - each screens has a page with snapshot and explanations

This is a 3-step process. At the end of each step, we get an OK from our users:

1. Get the mockup screens as good as we can [user review meeting]
2. Build a screens demo with HTML and CSS [live user demo]
3. Build project using Ruby on Rails [user login and go!]

thanks... yow, bill

Screens index

Here are the screens that comprise Dinner Out.

Screen ID	Description
Login.1	The first screen at dinnerout.com
Login.2	Forgot password
Logout.1	Screen after logout; show student art
Logout.2	About our student art
Home.1	The first screen after login
Session.1	Behavioral session
Session.2	End behavioral session, summary
School.1	All schools
School.2	School profile
School.3	New school
Teacher.1	All teachers
Teacher.2	Teacher profile
Teacher.3	New teacher
Teacher.4	Teacher's student roster
Teacher.5	Change password
Student.1	All students
Student.2	Student profile
Student.3	New student

Student.4	Student behavior squares
Square.1	All squares
Square.2	Square profile
Square.3	New square
Analysis.1	Analysis home page, report/chart choices
Analysis.2+	Coming soon...
Help.1	Help page(s)
About.1	About page with class bios, etc

Super pages are only accessible by the system's one Super User, Prof Bill. Only the Super User can create a school.

Super.1	Super dashboard
Super.2	Super report

The following pages are accessible only by Teachers with Admin powers. Basically, only Admin Teachers can create or remove Teachers, Students or Squares for their school.

Admin.1	Admin dashboard
Admin.2	Admin report

Login.1 - the first screen

The screenshot shows a web browser window titled "A Web Page". The address bar contains "http://www.dinnerout.com". In the top right corner, there is a link labeled "About". The main content area features a yellow box with the text "Dinner Out skinny logo" in a stylized font. Below this is a blue rectangular box containing a login form. The form has two input fields: "User name:" and "Password:". Below the password field is a "Login" button and a link labeled "Forgot password?".

We modeled this, somewhat, after the Blackboard login screen: simple and professional-looking. I have a screen grab of it in Section E. Hartl's solutions login is an inspiration as well.

Must work well on a PC, a tablet **AND a cellphone!**

Linked pages:

- Select Login, goto Home.1 page
- Select forgot password?, goto Login.2 page, where we email you a new password or give you the email of your school's admin
- Select About or Dinner Out logo, goto About.1 page

Login.2 - forgot password screen



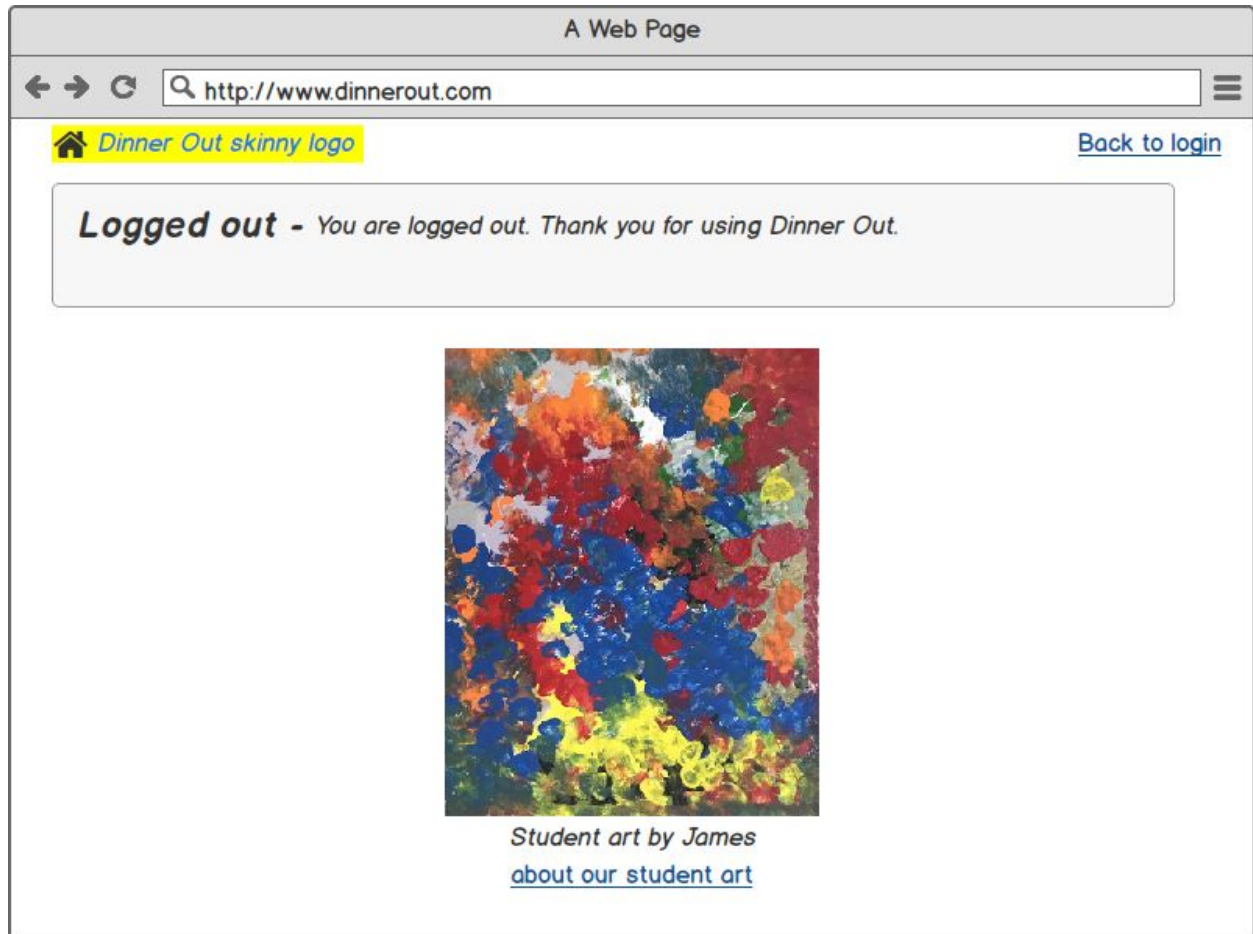
What if the email he/she gives us is bad? Isn't it a security risk to show an error message on this? It can be used by people without logins to search for emails.
Kevin M - just tell them it might not be sent. Good answer!

Important - You know what. I don't even think we should do this. User's are added by Admins, and they can ask their admin for a new password, if necessary.

Linked pages:

- Select Send New Password, goto Login.1 page
- Select About or Dinner Out logo, goto About.1 page

Logout.1 - shown after user logs out

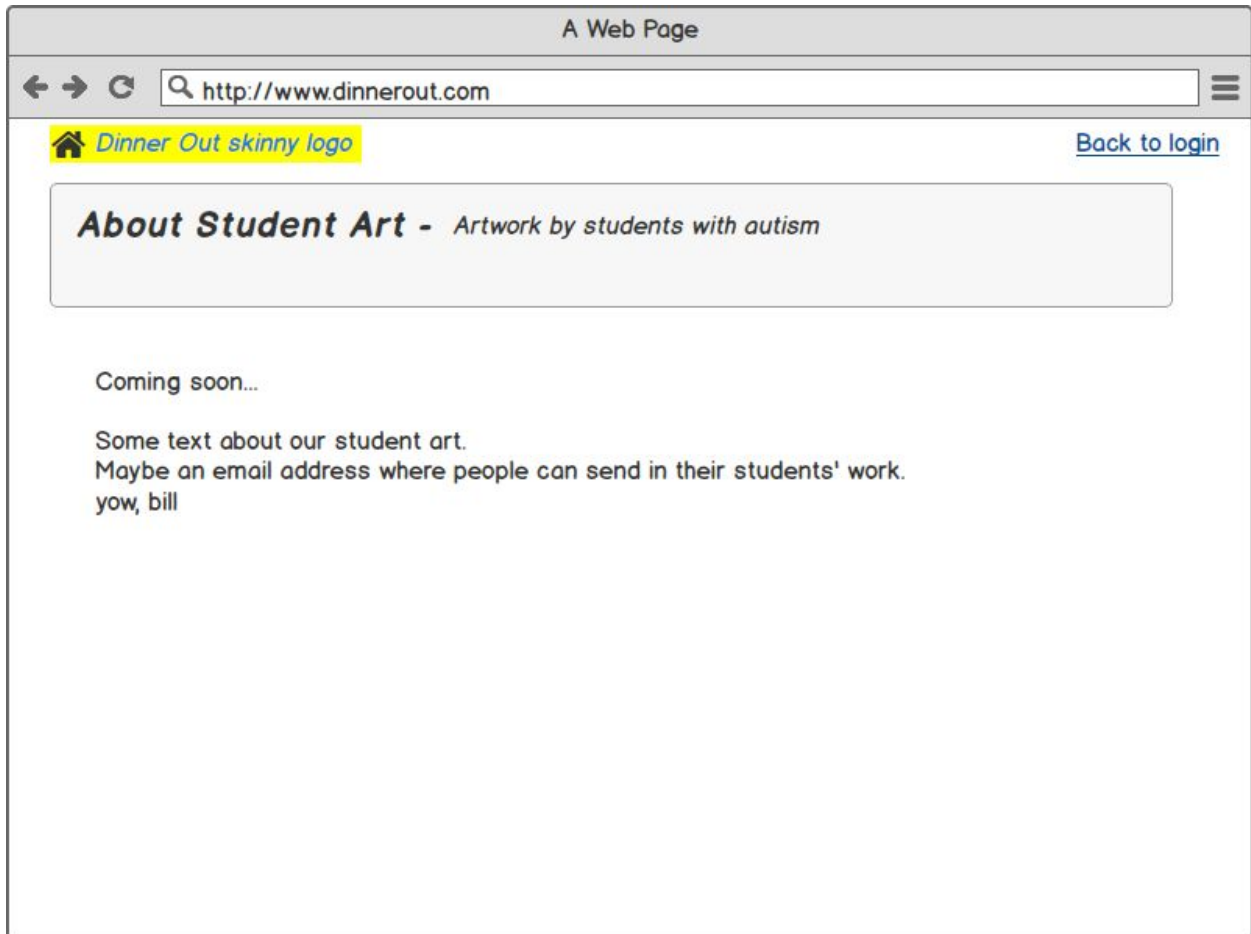


Show a randomly-chosen piece of student art.

Linked pages:

- Select Dinner Out logo, goto Login.1
- Select about our student art, goto About.2... a page explaining 1) the art you're seeing and 2) how to submit the art of your students with autism

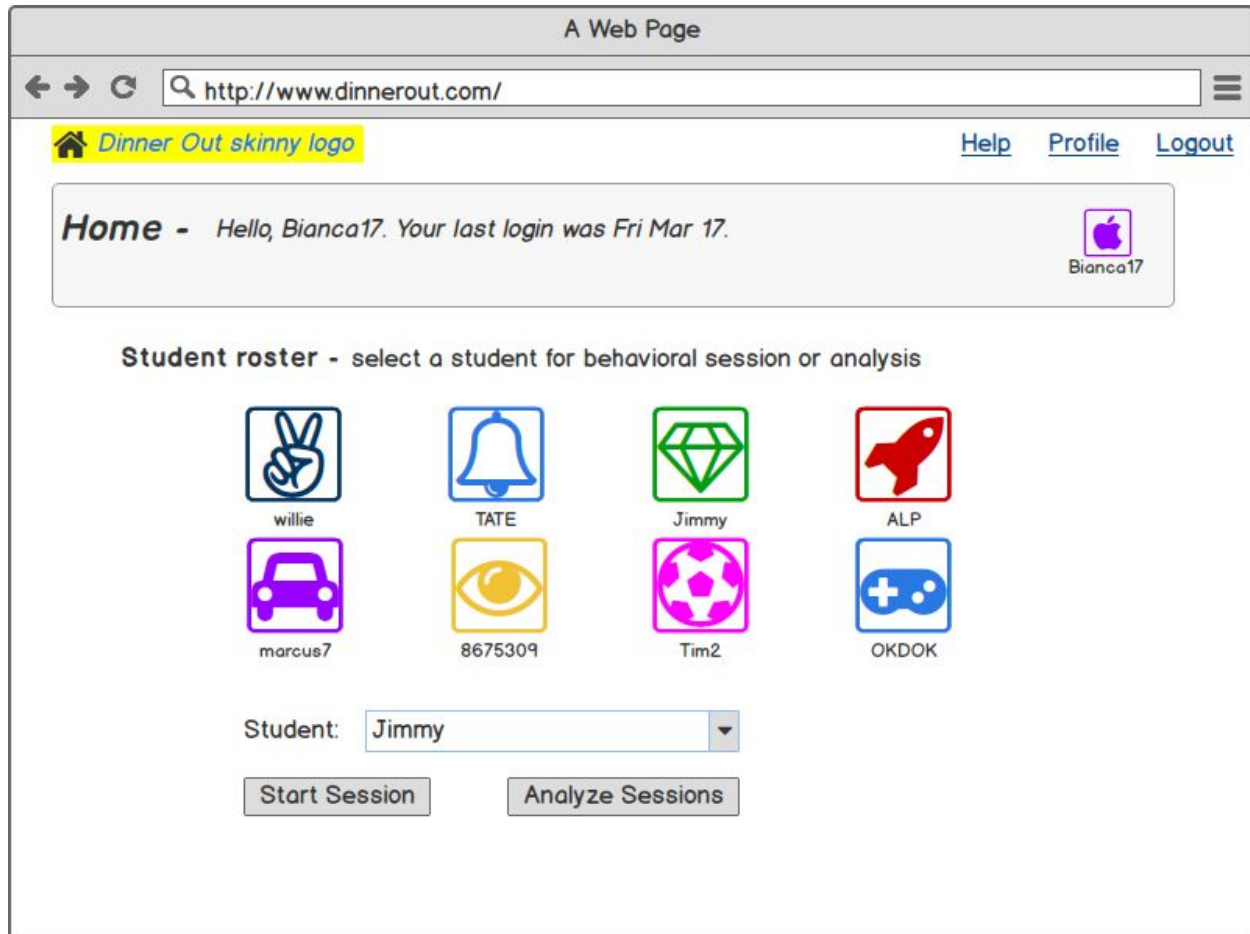
Logout.2 - about our student artwork



Linked pages:

- Select Back to login, goto Login.1

Home.1 - first screen after login



The Student Roster is defined in the Teacher profile. Above, Jimmy is selected (border) Select a student and then 1) start a session or 2) analyze past session data.

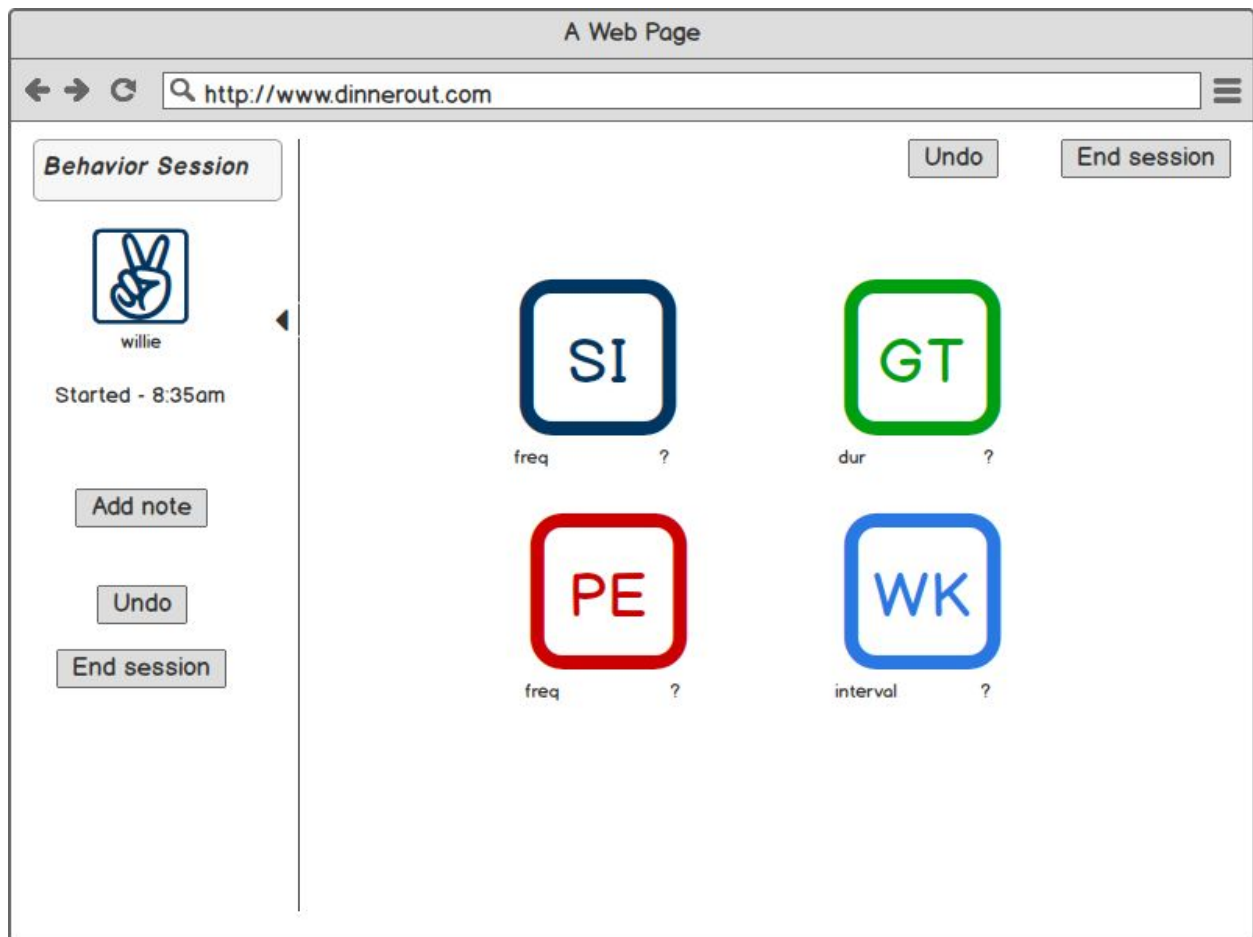
If more than 8 students in roster, then show the 8 most recently worked with? We'd need to add this to the data model... a last_session timestamp.

What if Student Roster is empty? Message and link to Teacher Profile?

Linked pages:

- Select Start Session, goto Session.1
- Select Analyze Sessions, goto Analyze.1
- Select Help, goto Help.1
- Select Profile, goto Teacher.1
- Select Logout, goto Logout.1

Session.1 - a behavioral session, our most important screen!



Lots to decide here. Trial and error!

Max 4 squares per row? We need to define the configuration for each # squares. For example, 9 squares = 3x3 matrix?

What happens when a square is selected?

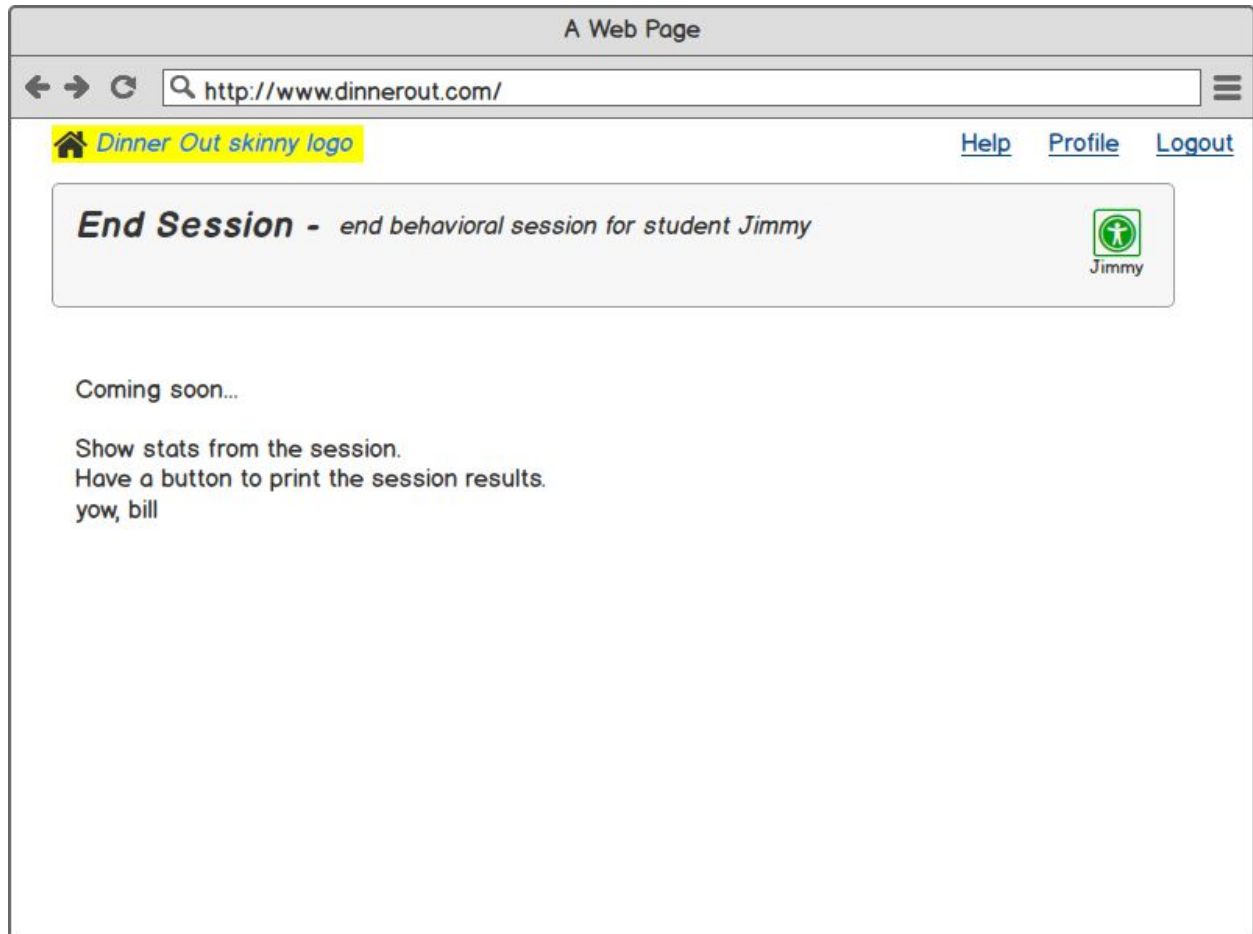
Select arrow on vertical bar to close the extra info and give full screen to buttons.

What about Undo? On a mis-selected square.

Linked pages:

- Select End session, goto Session.2 for a session summary

Session.2 - summary of behavioral session



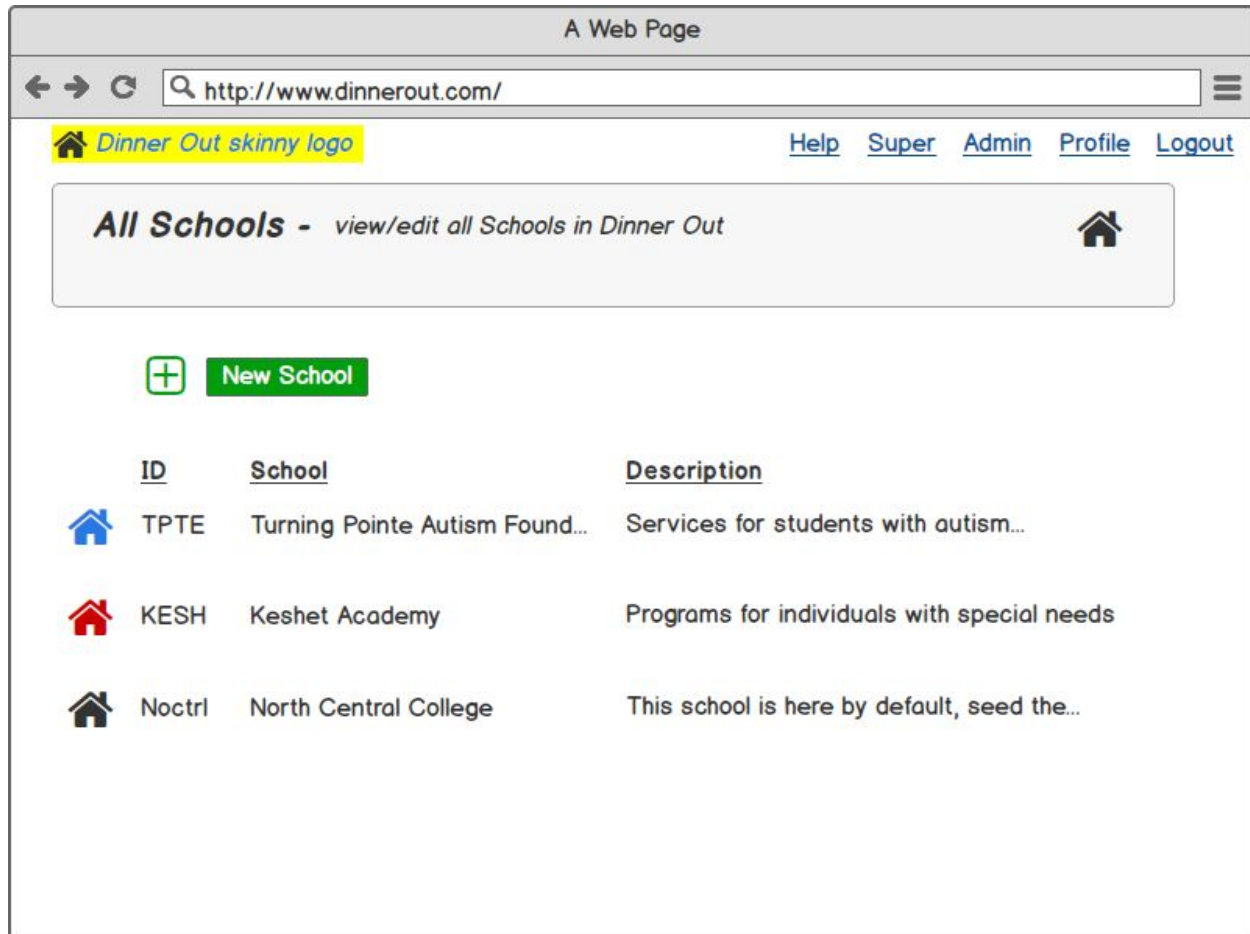
Stats plus a Session Summary Report.

Link back to home?

Linked pages:

- I assume when we're all done, then we head to Home.1


School.1 - all schools







A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Super](#) [Admin](#) [Profile](#) [Logout](#)

All Schools - *view/edit all Schools in Dinner Out* 

 **New School**

<u>ID</u>	<u>School</u>	<u>Description</u>
 TPTE	Turning Pointe Autism Found...	Services for students with autism...
 KESH	Keshet Academy	Programs for individuals with special needs
 Noctrl	North Central College	This school is here by default, seed the...

Only Super can see this page!

School icon is always glyphicon-home from Bootstrap. (better option in Font Awesome?)

Linked pages:

- Select a school from the list, goto School.2
- Select "New School", goto School.3

School.2 - school profile

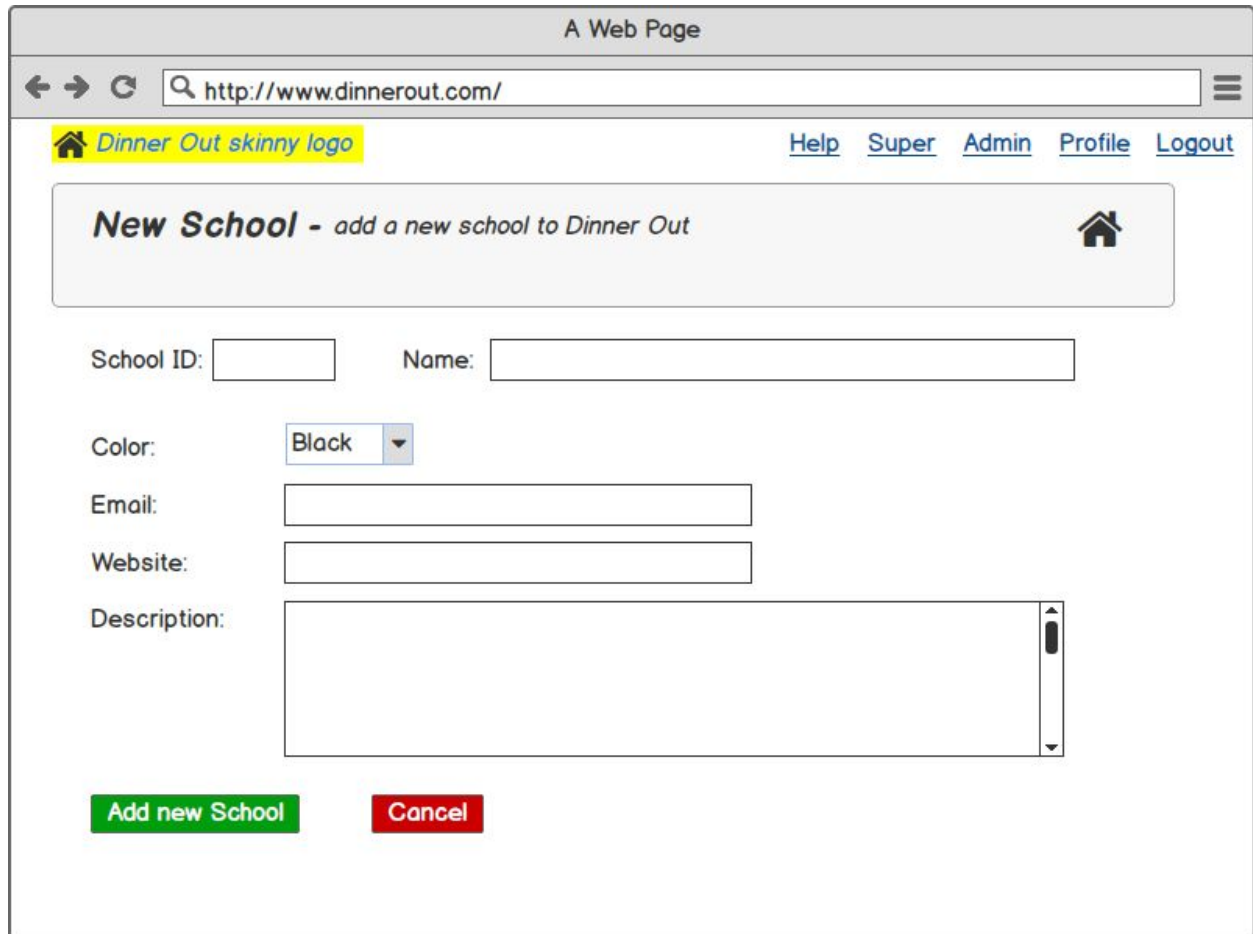
The screenshot shows a web browser window titled "A Web Page" with the address bar containing "http://www.dinnerout.com/". The page header includes a home icon, the text "Dinner Out skinny logo", and navigation links for "Help", "Super", "Admin", "Profile", and "Logout". The main content area is titled "School profile - view/edit information for school TRNGPTE" and features a home icon and the text "TRNGPTE". Below this, there are several form fields: "School ID:" with the value "TrngPte", "Name:" with the value "Turning Pointe Autism Foundation", "Email:" with the value "contactus@turningpointeaf.org", "Website:" with the value "www.turningpointeautismfoundation.org", and "Color:" with a dropdown menu set to "Blue". A "Description:" field contains the text: "Turning Pointe Autism Foundation is proud to have assembled a capable, experienced and committed team of professionals and organizations to oversee the development and management of its facilities and programs. We strive to maintain the highest level of quality and to provide the most comprehensive services for". At the bottom of the form are two buttons: "Save changes" (green) and "Cancel" (red).

This page is accessible by Super or any Admin from the school.

Linked pages:

- Select Save Changes or Cancel, goto School.1


School.3 - new school



A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Super](#) [Admin](#) [Profile](#) [Logout](#)

New School - add a new school to Dinner Out 

School ID: Name:

Color:

Email:

Website:

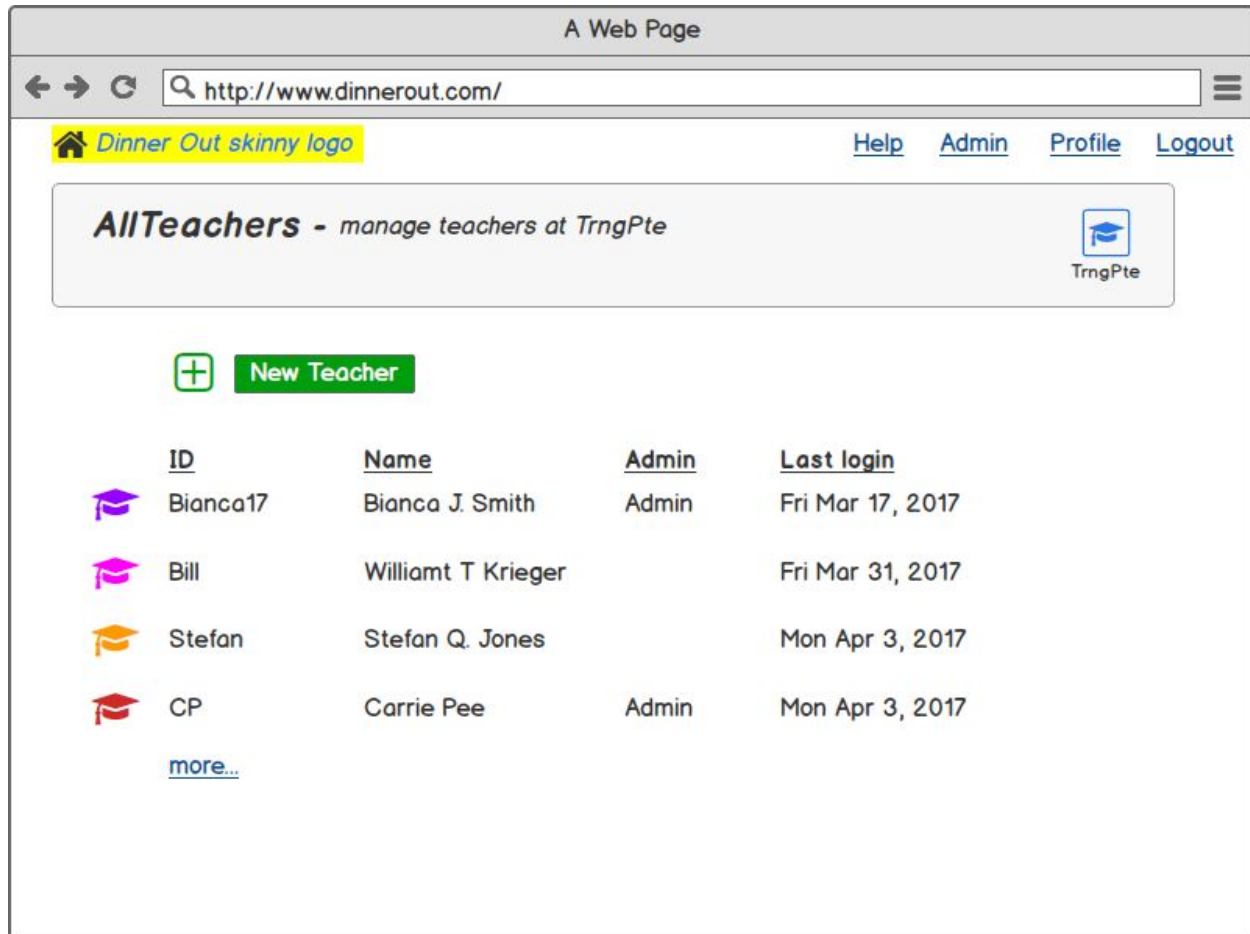
Description:

Only Super can create a school... and access this page.

Linked pages:


- Select Add new school or Cancel, goto School.1


Teacher.1 - all teachers








A Web Page

← → ↻

 [Dinner Out skinny logo](#) [Help](#) [Admin](#) [Profile](#) [Logout](#)

AllTeachers - manage teachers at TrngPte 



 <u>ID</u>	<u>Name</u>	<u>Admin</u>	<u>Last login</u>
Bianca17	Bianca J. Smith	Admin	Fri Mar 17, 2017
 Bill	Williamt T Krieger		Fri Mar 31, 2017
 Stefan	Stefan Q. Jones		Mon Apr 3, 2017
 CP	Carrie Pee	Admin	Mon Apr 3, 2017

[more...](#)

Only Super or a school Admin can see this page.

Linked pages:


- Select New Teacher, goto Teacher.3
- Select a Teacher from the list, goto Teacher.2

Teacher.2 - teacher profile

A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Profile](#) [Logout](#)

Teacher Profile - Profile for teacher Bianca17 
Bianca17



Teacher ID: Name:

Email:

Admin powers

Color:

Description:

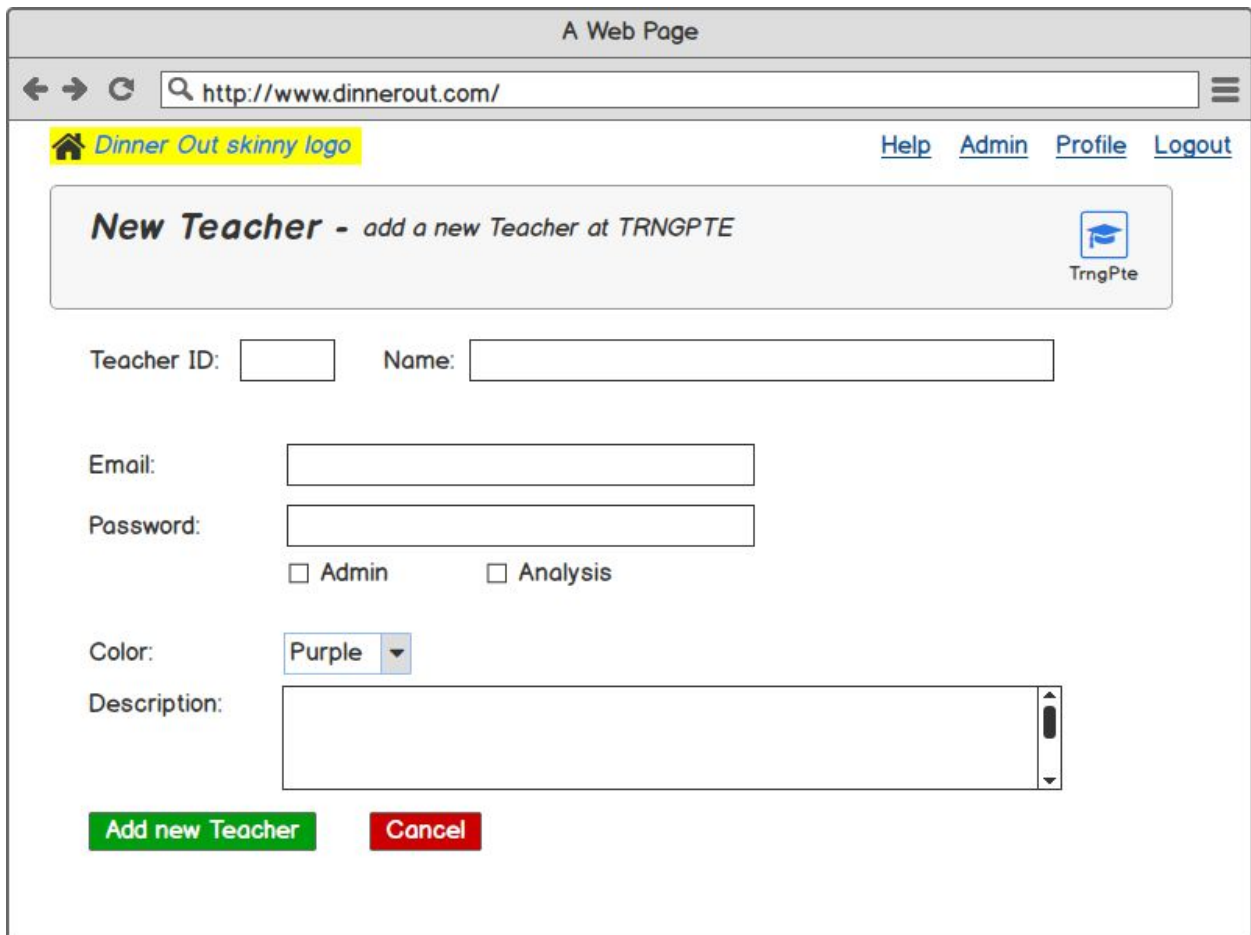
 

Teacher can't change ID or powers.
Teacher icon is glyphicon-apple from Bootstrap.

Linked pages:

- Select Save changes, save and goto Teacher.1
- Select Cancel, goto Teacher.1
- Select Student Roster, goto Teacher.4
- Select Change Password, goto Teacher.5


Teacher.3 - new teacher



A Web Page

http://www.dinnerout.com/

[Home](#) **Dinner Out skinny logo** [Help](#) [Admin](#) [Profile](#) [Logout](#)

New Teacher - add a new Teacher at TRNGPTE 

Teacher ID: Name:

Email:

Password:

Admin Analysis

Color:

Description:

Admin and Analysis are a little weird. If you're an Admin, then you get Analysis. This screen doesn't represent this well.

Linked pages:

- Select Add New Teacher, save and goto Teacher.1
- Select Cancel, goto Teacher.1

Teacher.4 - student roster for teacher

The screenshot shows a web browser window titled "A Web Page" with the address bar containing "http://www.dinnerout.com/". The page header includes a home icon, the text "Dinner Out skinny logo", and navigation links for "Help", "Profile", and "Logout". The main content area is titled "Student Roster - select the students for teacher Bianca17" and features a purple Apple icon labeled "Bianca17".





Change roster

Access all students at TrngPte
 Some students

Add student to roster: Alice19

Remove student from roster: jimmy

Student roster for Bianca17

 willie	 TATE	 Jimmy	 ALP
---	---	--	---

Max 4 student icons per row?

List of add students = the students in the school, not in the roster already.

List of remove students = students in the roster.

Get rid of "Access all"? Just make that person an Admin in that case, right?

Add a Done button? Or maybe Return to Profile?

Linked pages:

- Select Change roster, update and stay here at Teacher.4
- Select student icon in the roster, goto Student.2

Teacher.5 - change password

The screenshot shows a web browser window titled "A Web Page" with the address bar containing "http://www.dinnerout.com/". The page header includes a home icon, the text "Dinner Out skinny logo", and navigation links for "Help", "Profile", and "Logout". The main content area features a title "Change Password - select a new password for teacher Bianca17" with a key icon. Below the title are three input fields: "Current password:", "New password:", and "New password (again):". At the bottom, there are two buttons: "Change password" and "Cancel".

This screen is for a teacher to change their own password.

Where's a screen for Admin to change the password of a teacher in his/her school?

Linked pages:


- Select Change password, goto Teacher.2
- Select Cancel, goto Teacher.2


Student.1 - all students





A Web Page

http://www.dinnerout.com/

[Dinner Out skinny logo](#) [Help](#) [Profile](#) [Logout](#)

All Students - manage students at TrngPte 



<u>ID</u>	<u>Name</u>	<u>Last session</u>
 willie	Wilson E	Fri Mar 17, 2017
 TATE	Tate from Oswego	Fri Mar 31, 2017
 Jimmy	Orenthal James S.	Mon Apr 3, 2017
 ALP	Alan P.	Mon Apr 3, 2017

[more...](#)

Only Super or the Admin for the school can access this page.
Is "Last Session" in the data model?

Linked pages:

- Select New Student, goto Student.3
- Select student from list, goto Student.2


Student.2 - student profile

A Web Page

← → ↻ 🔍 http://www.dinnerout.com/ ☰

[Dinner Out skinny logo](#) [Help](#) [Profile](#) [Logout](#)

Student Profile - Profile for student Jimmy




Jimmy

Student ID: Name:

Icon: Color:

Contact Info:

Description:

Only Super or Admin for this school can access this page.
Notes will be defined later?

Linked pages:


- Select Save changes, save and goto Student.1
- Select Cancel, goto Student.1
- Select View Squares, goto Student.4

Student.3 - new student

A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Admin](#) [Profile](#) [Logout](#)

New Student - add a new Student at TRNGPTE 

Student ID: Name:

Icon: Color:

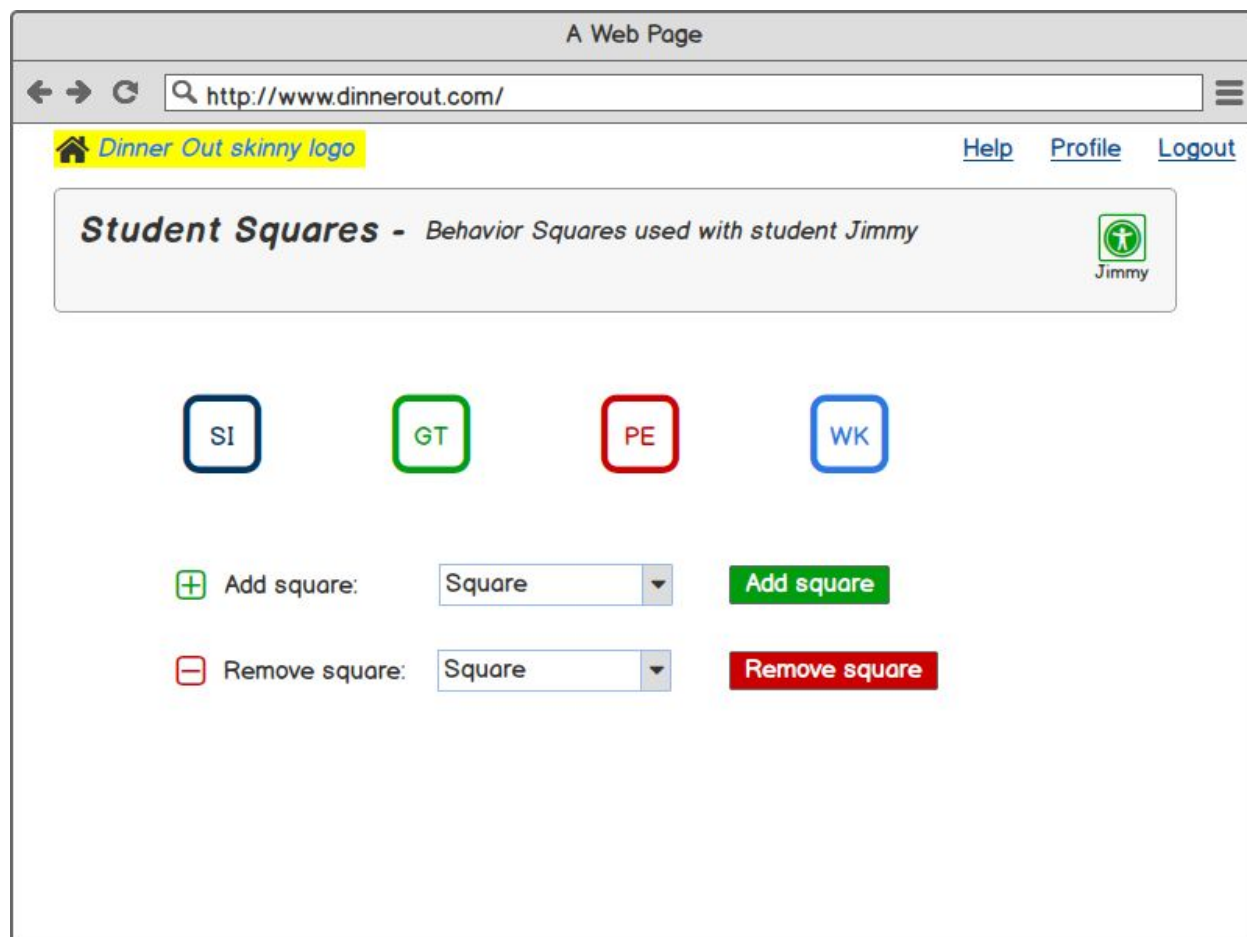
Description:

Only Super or Admin for this school can create a student, access this page.
On all this icon stuff... it would be cool to show the icon as the ID and color change.

Linked pages:

- Select Add new student, save and goto Student.1
- Select Cancel, goto Student.1

Student.4 - behavior squares for student



List icons for student's current behavior squares.

Add Done button? To return to Student.2 profile page? "Return to student profile" link?

Linked pages:


- Select Add square, add it and stay here, Student.4
- Select Remove square, update and stay here, Student.4


Square.1 - all squares




A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Admin](#) [Profile](#) [Logout](#)

All Squares - manage behavior squares at TrngPte 

 **Add new Square**

	<u>ID</u>	<u>Type</u>	<u>Description</u>	<u>Added by</u>
	SI	Frequency	Self-injury	Bianca17
	GT	Duration	Global Trauma	EdZ
	PE	Interval	Physical Education	EdZ

[more...](#)

I think the behavior square icon is square-o from Font Awesome, fontawesome.io/icon/square-o/

Linked pages:


- Select Add new square, goto Square.3
- Select a square from the list, goto Square.2

Square.2 - square profile

A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Admin](#) [Profile](#) [Logout](#)

Square Profile - Profile for behavior square WK 

ID:

Type:

Color:

Description:

Linked pages:


- Select Save changes, goto Square.1
- Select Cancel, goto Square.1

Square.3 - new squares

A Web Page

← → ↻

[Dinner Out skinny logo](#) [Help](#) [Admin](#) [Profile](#) [Logout](#)

New Square - add a new behavior square to TrngPte 

ID:

Type:

Color:

Description:

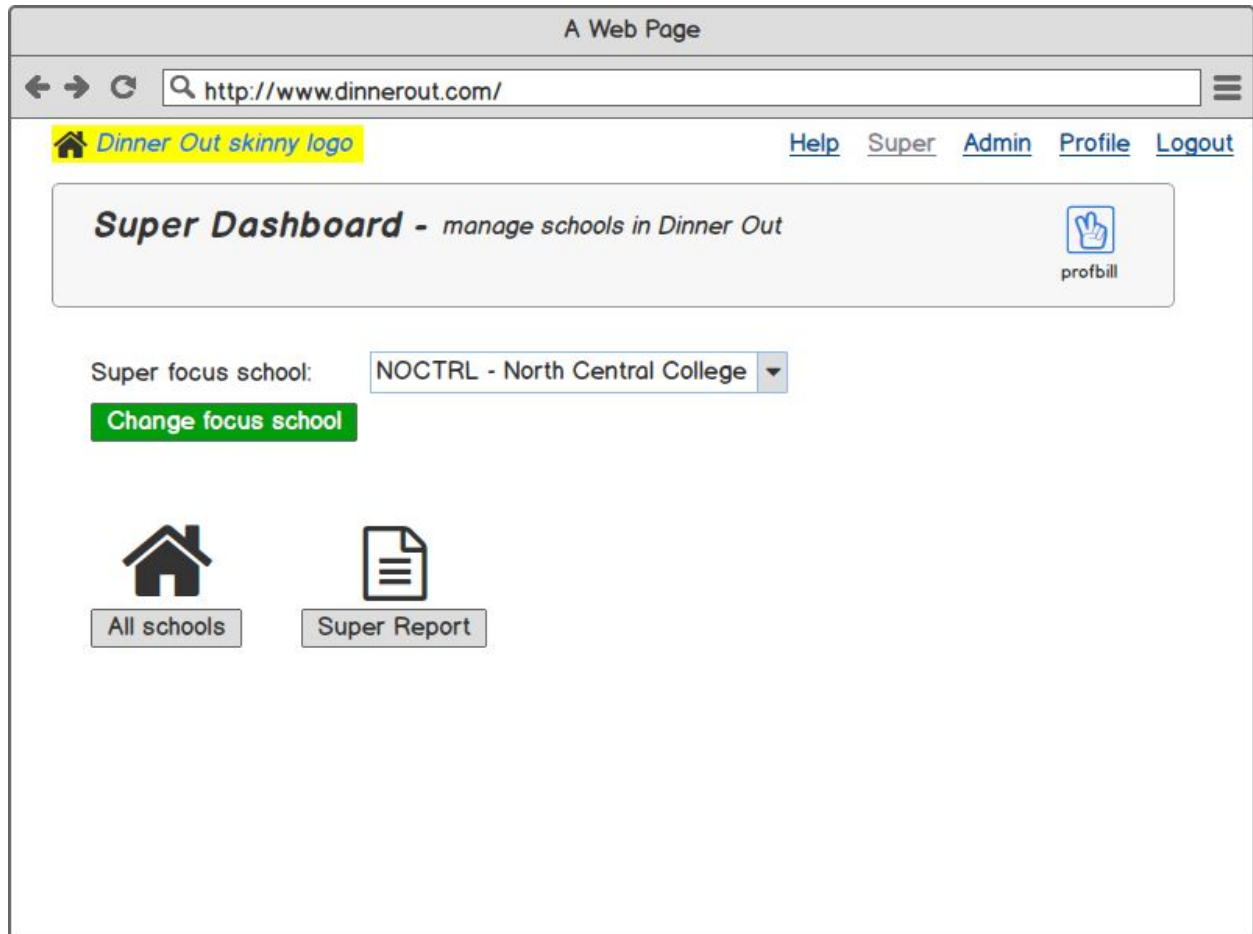
Missing duration max?

Interval choice? (5 min, 15 min, etc) Or is that just a report option?

Linked pages:

- Select Create square, goto Square.1
- Select cancel, goto Square.1

Super.1 - super dashboard



Only Super can access this page.

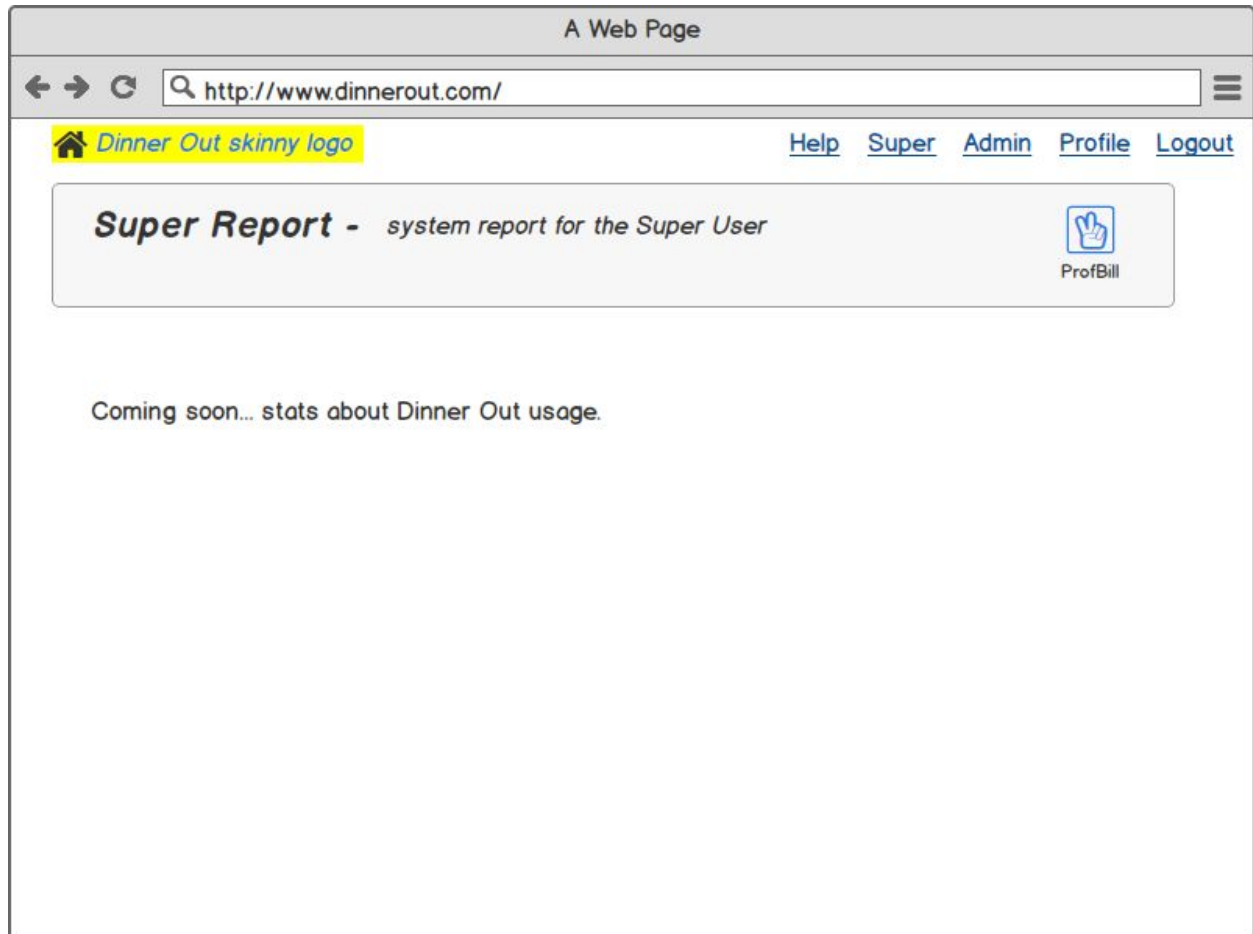
Changing the Super focus school makes Prof Bill an Admin for that school. Get it?

Seed the database with 1 school: Noctrl?

Linked pages:

- Select Change focus school, make the change and stay here, Super.1
- Select All schools, goto School.1
- Select Super Report, goto Super.2

Super.2 - super report

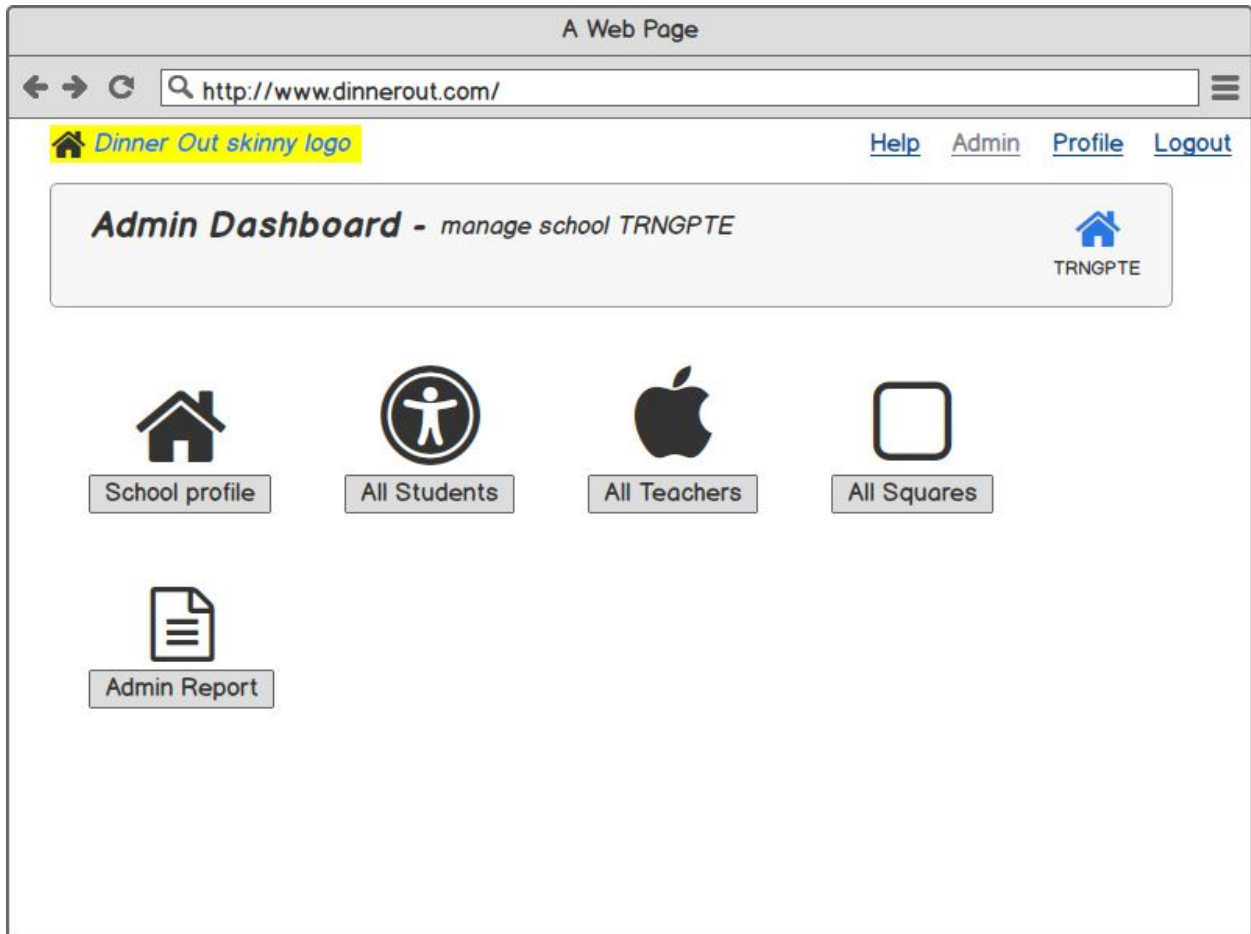


Show some system stats here for the Super to ponder.
Add "Return to dashboard" link?

Linked pages:

-

Admin.1 - admin dashboard

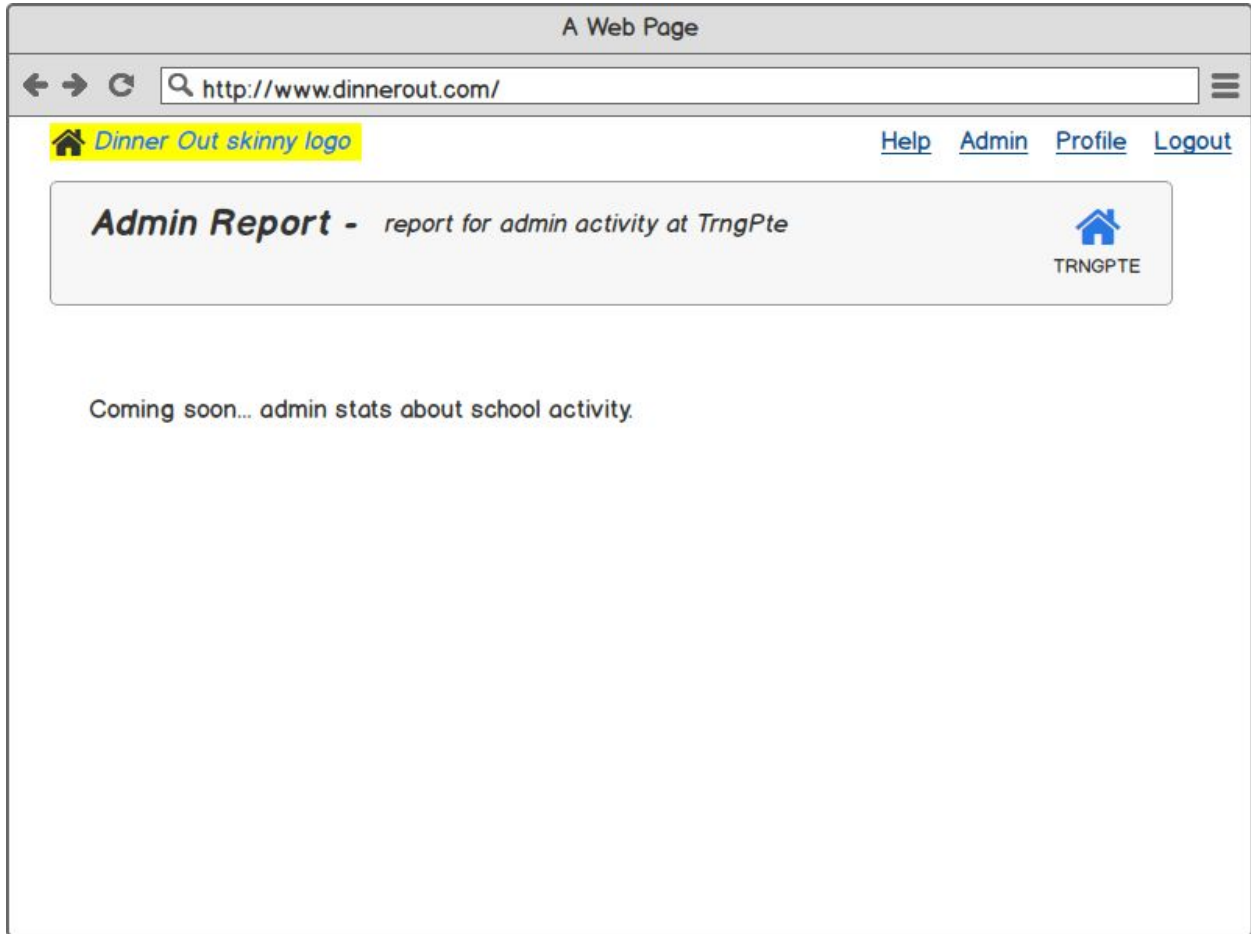


Only Admin for this school can access the dashboard.

Linked pages:

- Select School profile, goto School.2
- Select All Students, goto Student.1
- Select All Teachers, goto Teacher.1
- Select All Squares, goto Square.1
- Select Admin Report, goto Admin.2

Admin.2 - admin report



Show some system stats here for the Admin to ponder.
Add "Return to dashboard" link?

Linked pages:

-

E. Etc

It's a potpourri from here out.

What's missing?

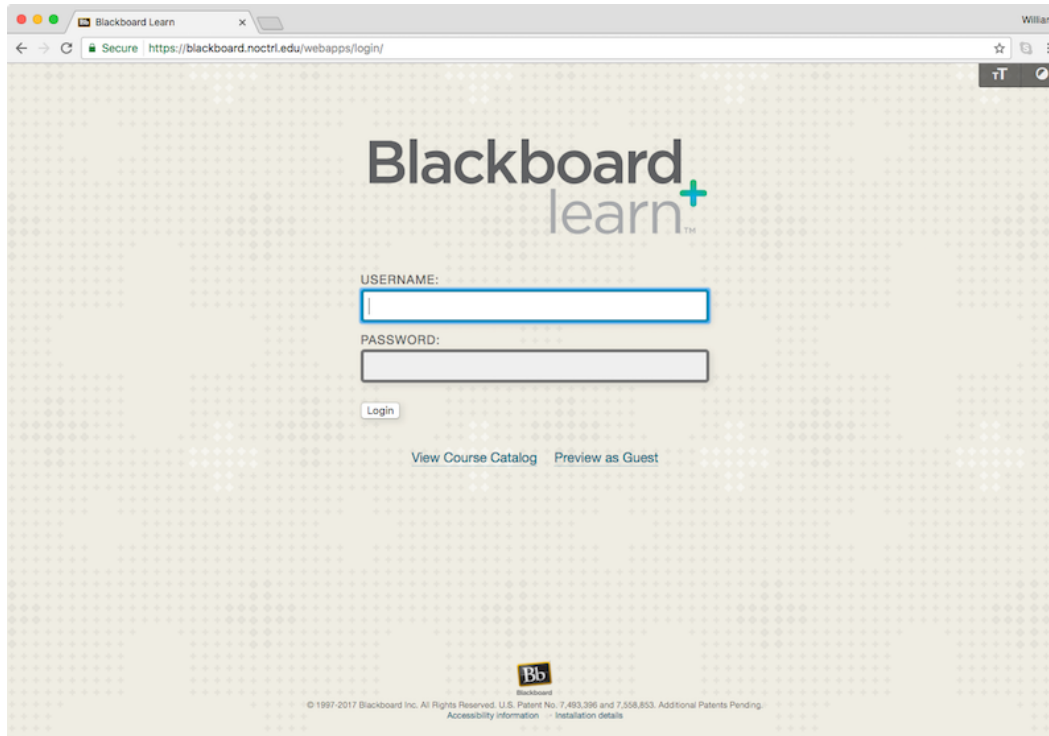
Here are things that I know are missing from this UX design. Some are for Sprint #2, and some maybe later than that. We'll see.

- Remove - add a link to School, Teacher, Student, and Square pages to remove that object from Dinner Out. The link would only be shown for Super or Admin user.
- Notes - I want students to take a shot at notes.
- Analysis - We'll fill in the blanks for a report, CSV export and chart during Sprint #1.
- Data model - I am certain that some things here are not represented in the initial Data Model. We have to add these things, track them, and then update the Arch Doc V1.1 for Sprint #2.
- Tmp student - It would be very nice and desirable for a Teacher to have a tmp student available for sessions. They could define squares for the tmp and run a session. Maybe the results aren't stored and all they would get is a Session Summary Report. I don't know.
- Admin change password - need a way/screen for Admin to change a teacher's password.

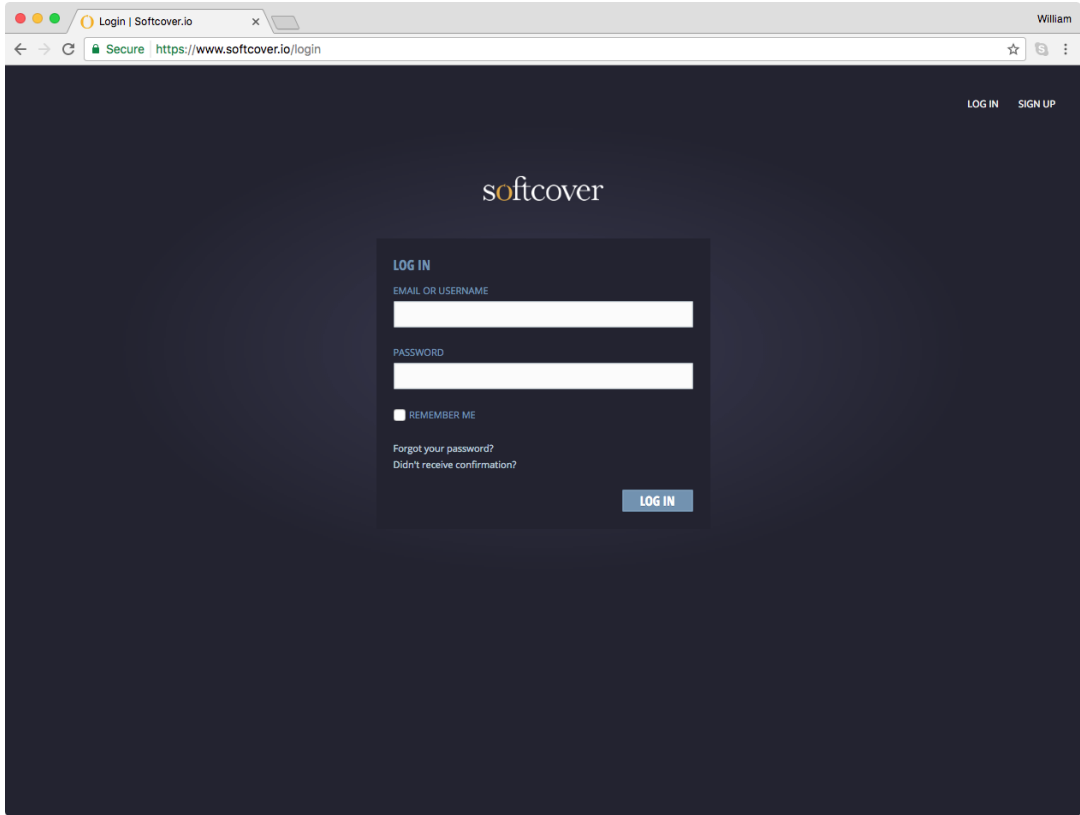
Finally, we will definitely find holes during Sprint #1. This will require extra diligence from our coders. Fortunately, we have owners in this project, not renters. Cha!

Fun with Login

We surveyed a number of login screens. The one we like best is BlackBoard... it's simple and professional looking.



The login to Hartl's solutions to his Rails Tutorial is pretty nice as well.



That's it.
thanks... yow, bill