Architecture Document Version 1.0
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School		
Col	**Type**	**Notes**
id*	integer	built-in
school_icon_name	string	8 alphanums or less
school_name	string	Name of school
school_email	string	Schools main email
school_website	string	School website
school_description	text	Notes about school
color	string	Enum later?

rails generate model School school_icon_name:string school_name:string school_email:string school_website:string school_description:text color:string

id*: uniquely rails generated id
school_icon_name: shortened name to be displayed under icons

Teacher		
Col	**Type**	**Notes**
id*	integer	Built-in
user_name	string	login.unique!
teacher_icon_name	string	Teacher's icon name 8 characters
teacher_name	string	8 alphanums or less
teacher_email	string	Teacher's email
admin_powers	boolean	Admin powers
analysis_powers	boolean	If admin then this is true too
teacher_description	text	Description
color	string	enum?
school_id	integer	Owner school

rails generate model Teacher user_name:string teacher_icon_name:string teacher_name:string teacher_email:string admin_powers:boolean analysis_powers:boolean teacher_description:text color:string school_id:integer

id*: uniquely rails generated id
School_id: foreign key for the school the teacher works for
analysis _powers: true for all admins, can also be true for some non admins

Student		
Col	**Type**	**Notes**
id*	integer	built-in
student_icon_name	string	8 alphanumeric or less
student_name	string	Student's name
student_contact_info	string	Contact information
student_description	text	Notes about student
student_icon	string	editable?
color	string	Students color
school_id	integer	Owner school

rails generate model Student student_icon_name:string student_contact_info:string student_description:text student_icon:string color:string school_id:integer

id*: uniquely rails generated id
School_id: foreign key for the school the teacher works for

Square		
Col	**Type**	**Notes**
id*	integer	built-in
square_id	string	2 alphanums exactly
square_type	integer	enum:duration, frequency, interval
square_description	text	
color	string	Square color
school_id	int	Owner school

rails generate model Square square_id:string square_type:integer square_description:text color:string school_id:integer

id*: uniquely rails generated id
School_id: foreign key for the school the teacher works for

Session		
Col	Type	Notes
id*	integer	Built-in
start_time	datetime	Session start time
end_time	datetime	Session end time
session_teacher	integer	Teacher in charge of session
session_student	integer	Student that is the focus of the behavior session

rails generate model Session start_time:datetime end_time:datetime session_teacher:integer session_student:integer

Session Event		
col	Type	Notes
id*	integer	Built-in
behavior_square_id	integer	Behavior square unique id
square_press_time	datetime	Time when pressed
duration_end_time	datetime	
session_id	integer	

rails generate model Session_Event behavior_square_id:integer square_press_time:datetime duration_end_time:datetime session_id:integer

Session Events: used to keep track all events that happen during a session. Session_id correlates to the session it happened in. Keeps track of the the behavior sqaure that the event is for.

Roster Square		
col	Type	Notes
id*	integer	Built-in
square_id	integer	Square unique id
student_id	integer	owner

rails generate model Roster_Square square_id:integer student_id:integer

Pair of student_id and square_id. Used to keep track of what behaviors are being track for a student.

Roster Student		
Col	**Type**	**Notes**
id*	integer	Built_in
student _id	integer	owner
teacher_id	integer	owner

rails generate model Roster Student student_id:integer teacher_id:integer

Pair of student_id and teacher_id. Used to keep track of what students a teacher has on their roster.

Routes

Screen Name	Action	Path	TO
login User login		root	loginsessions#new
login User login action		/login	loginsessions#create
login2 Forgot password			
login2 Forgot password action			
logout1		/logout	loginsessions#destroy
logout2 About logout artwork		/logout/about	loginsessions#about
home1	show	/teacher/<teacherID>/home	teachers#home
session1 Start session	new	/session	sessions#new
session2.0 update session	update	/session/update	sessions#update
session2.1 End session	update	/session/end	sessions#end
admin1 Admin dashboard	index	/admin/home	admin#home
admin2 Admin Report	show	/admin/report	
super1 Super dashboard	index	/super/home	
super2	show	/super/report	

Super report			
school1 All schools	index	/schools	
school2 School profile	show	/schools/<schoolID>	
school3 New school	new	/schools/new	
teacher1 All teachers	index	/teachers	
teacher2 Teacher profile	show	/teachers/<teacherID>	
teacher3 New teacher	new	/teachers/new	
teacher4 Student roster	show	/teachers/<teacherID>/roster	
teacher5 Change password	edit	/teachers/<teacherID>/edit	
student1 All students	index	/students	
student2 Student profile	show	/students/<studentID>	
student3 New student	new	/students/new	
student4 Student squares	show	/students/<studentID>/squares	
square1 All squares	index	/squares	
square2 Square profile	show	/squares/<squareID>	
square3 New square	new	/squares/new	

Relationships

Teacher table: school_id   int   owner school

Student table: school_id   int   ownerschool

Square table: school_id   int   owner school