



Karina Frid



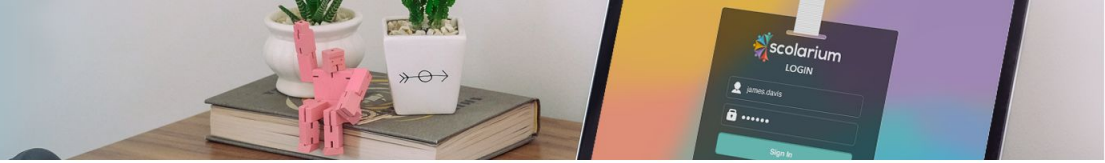
INTRODUCTION



In the dictionary education is defined as “the act or process of imparting or acquiring general knowledge, developing the powers of reasoning and judgment, and generally of preparing oneself or others intellectually for mature life.”

Education has been changing in the last years, technology has been disrupting a lot of industries and education is not the exception, now we can take education to more places in less time to more people, there are now high quality educational resources to improve people's opportunities. There are a great number of things that we can do with technology to improve education.

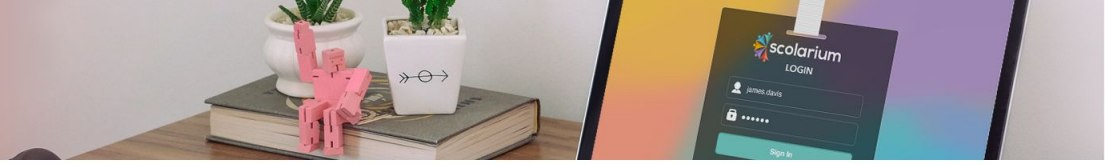
PROBLEM



The problem I want to solve revolves around having a unified system that not only allow a school to work better, by using a platform that helps students, teachers and faculty to work on their own tasks, but also to gather information for future data analysis.

Many schools use blackboard or similar platforms, this are very complex and unfriendly softwares, in some cases they are outdated or simply not well designed .

SOLUTION



I will be designing a platform that faculty and students can use, where they can transform and improve education.

This software will have different tool for their different users, and will use Business Intelligence, this means that we are going to enable access to and analysis of information to improve and optimize decisions and performance.

STAKEHOLDERS - COMPETITION

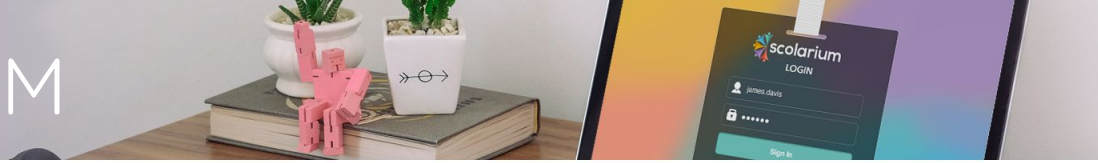


Our stakeholder would be any school or a large scale educational institution that would be in charge of implementing this in the public or private school system.

This are examples of other administration softwares:

- | | |
|-------------|--------------|
| -Gibbon | -Fedena |
| -SchoolTool | -TS school |
| -Ascend SMS | -School Time |

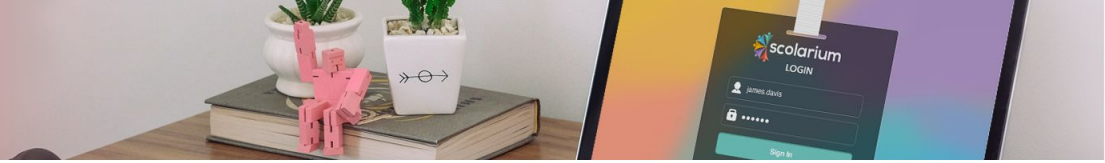
INTERACTIVE MEDIUM



This platform is designed for a computer experience, it would be used by administrators, faculty and students meaning that people would use it on their computer, doing a mobile experience could be a future step.

I focused mainly in the user experience, but it was important to keep in mind the information architecture to support usability and findability.

CHALLENGES



- Be able to create a user friendly but yet complex platform
- Make sure we are satisfying all the needs our future users will have
- Be able to gather all the information needed to be sure I am addressing the problem correctly.



Scolarium

Style one
version:1

Possible Colors



Gradients



This is an example of a Button

Submit Button Example Here

This is an Example of a Header

Font: Name Avenir Medium

This is an Example of a Sub Head

Font: Name Avenir Next

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel feugait nulla facilisi.

Font: Name Avenir regular

This is an example of a Text link »

Adjectives

Clean Simple Smart



JAMES DAVIS

NU Office Administration

Age: 42

Location: Boston

About: Bachelor's in Business, been working in his Current job for the past 11 years

Problems/thoughts:

- Works with many people in school
- Has to work with different softwares
- Have had many issues around the variety of softwares: navigation, sync options.
- Would like an option that unifies all tools.



MARGARET SMITH

History Teacher

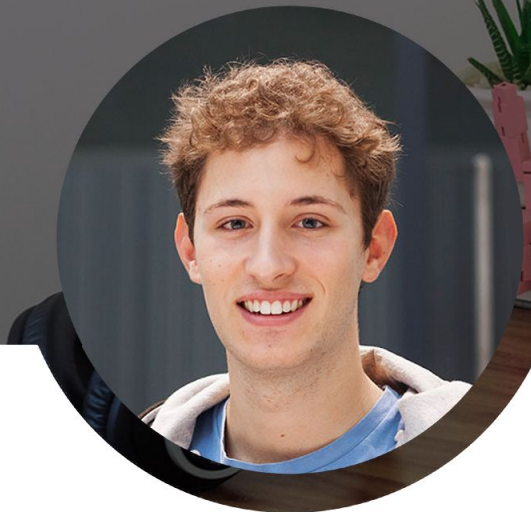
Age: 42

Location: Boston

About: Masters in
US History, school teacher

Problems/thoughts:

- Is mandatory to use school platform
- She doesn't like it, nor her students
- She thinks is a great tool but has a lot of defects.
- She could use a software to make her job easier, and if used correctly be a better professor.
- Thinks technology can be challenging but with good attitude and a good tutorial everything can be learned.



DANIEL MOSS

Student



Age: 16

Location: Boston

About: 11th grade student

Problems/thoughts:

- Is mandatory to use school platform
- He thinks is very unfriendly
- He uses a variety of useful apps and tech tools, he thinks school should take advantage of them.

Scenario 1

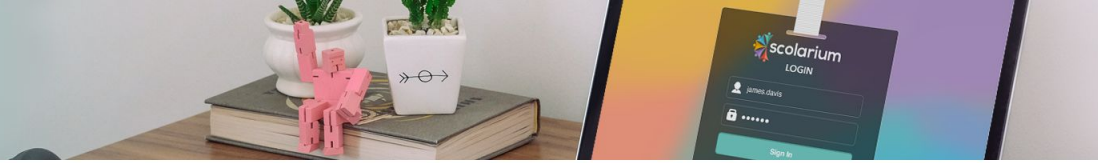


James has a very busy schedule, has many windows open on his computer because he is always multitasking, between faculty paperwork, checking his email, going to meetings, filling forms, among others.

James arrives at the office, the first thing he does is check his email to see if something important came up, he has his inbox on his dashboard because is one of the main tools he uses, after reading his emails, he checks his calendar to see what tasks he has for the day, so he clicks on the yellow circle for the short cut for his calendar window..

His most urgent task is to finish up some paperwork regarding transcripts of 1st and 2nd grade, and fill up a Google Sheet, and last he needs to give access to Scholarium to a new substitute teacher that was just hired.

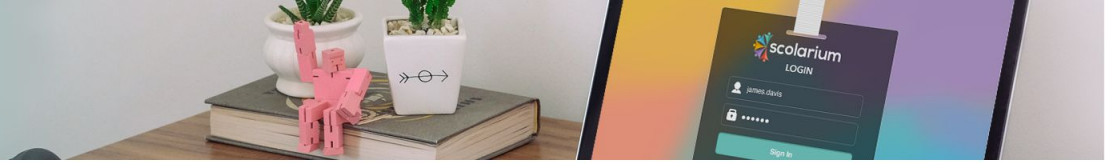
Scenario 2



Daniel logs in, checks his email and find a reminder about the chemistry assignment that he hasn't submitted yet.

He goes to the course section, where he does a little recap of the class, after this he watches a video that the teacher shared, after finishing it he feels prepared to do the assignment and submits it, he goes back to the main dashboard and checks the chemistry task of.

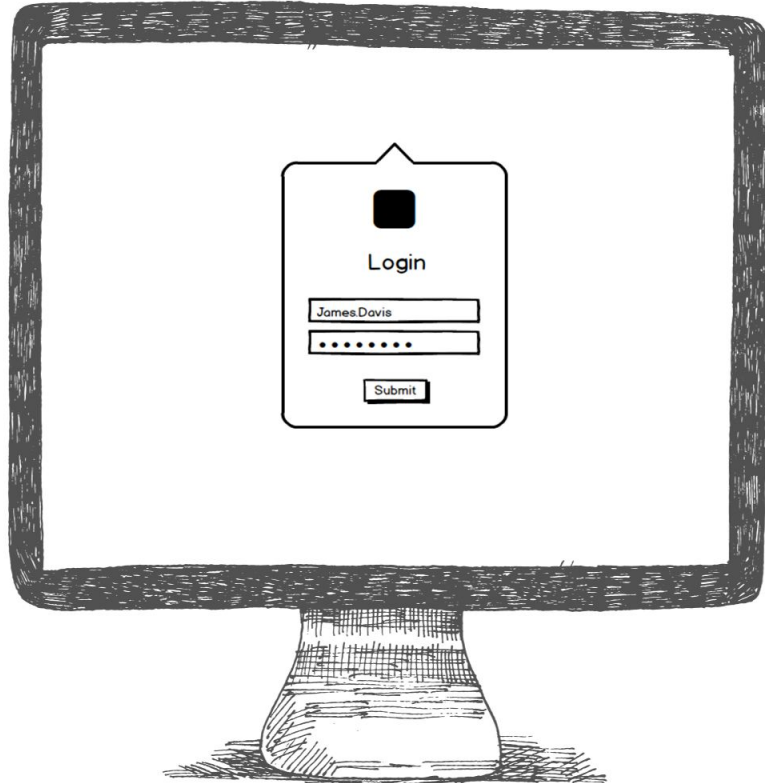
Scenario 3



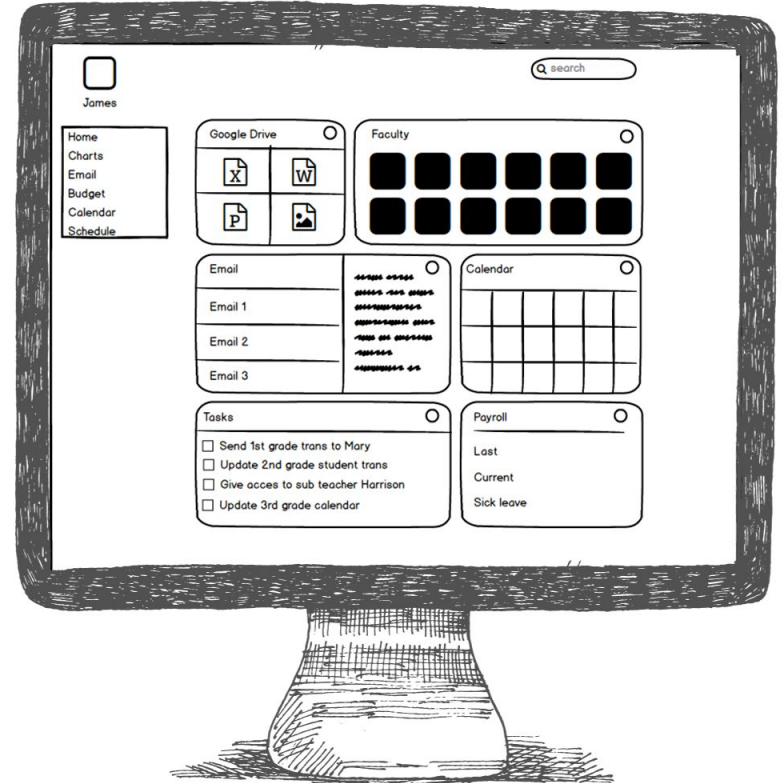
After getting back home from school Margaret takes advantage that she can work from home and logs in to Scolarium to add an assignment to the 10th grade history class, she chooses the option in the courses drop down menu, and clicks on assignment, she fills the necessary fields, title, deadline and description, and upload the assignment so students can have access to it.

WIREFRAMES

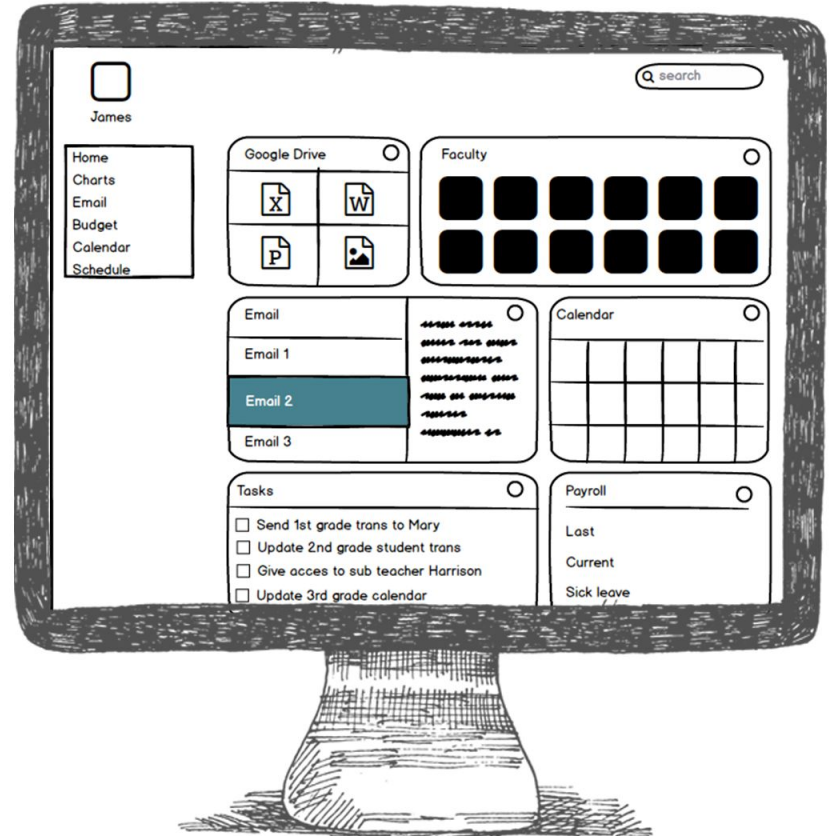
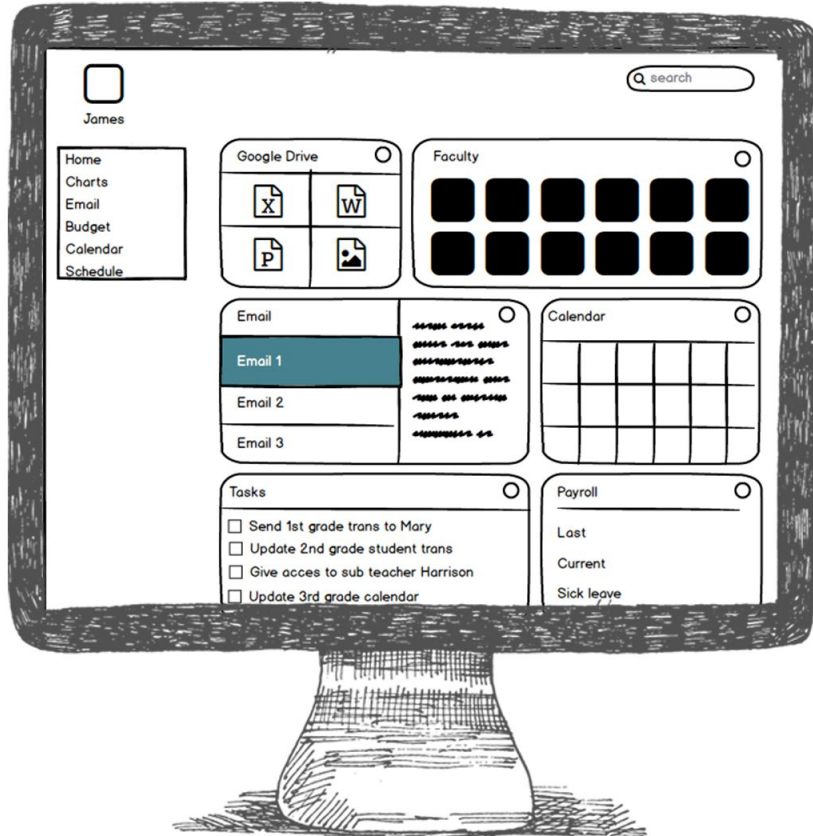
James logs in



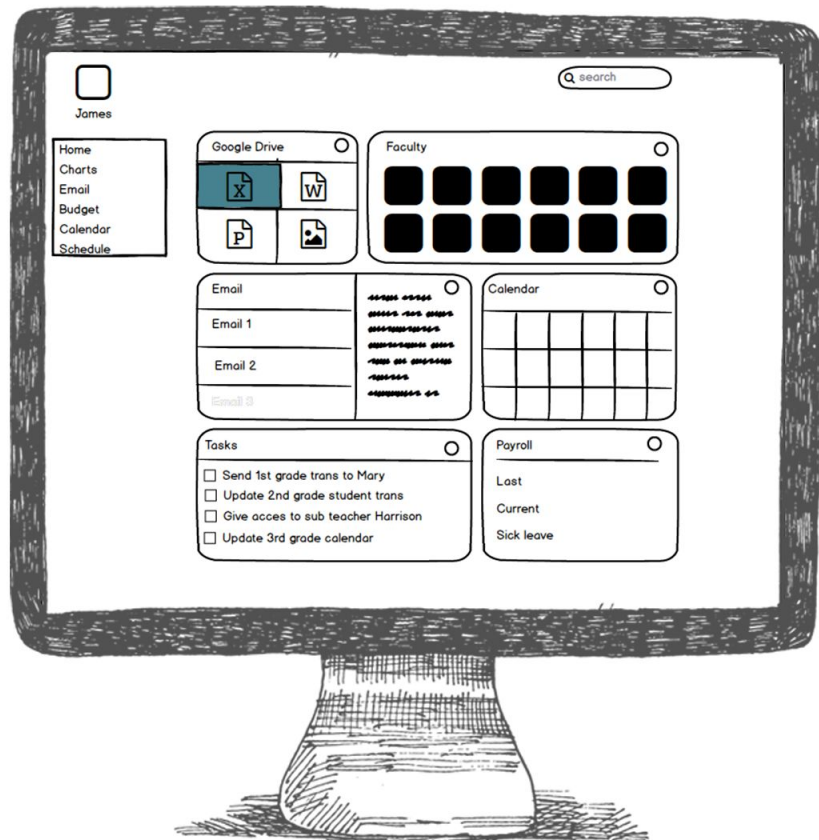
Main dashboard



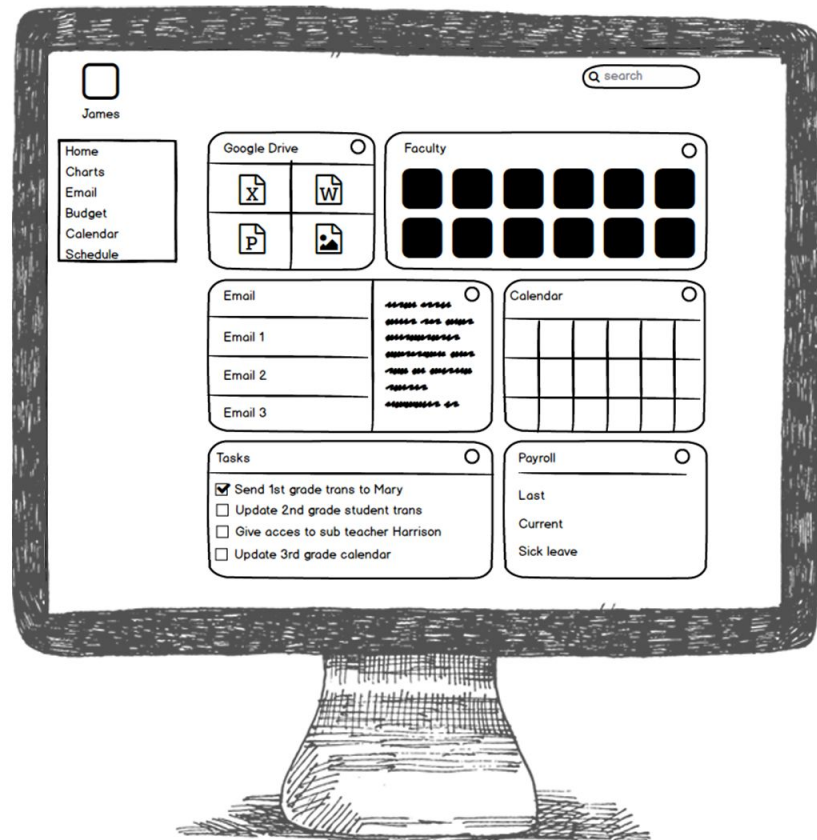
Checks e-mail



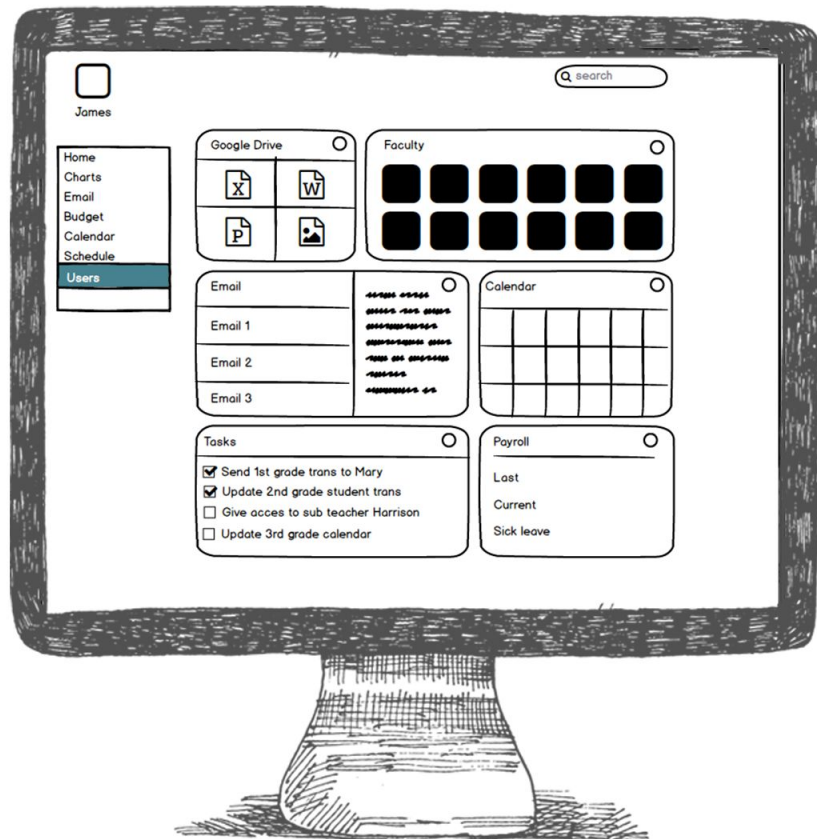
Goes to excel sheet



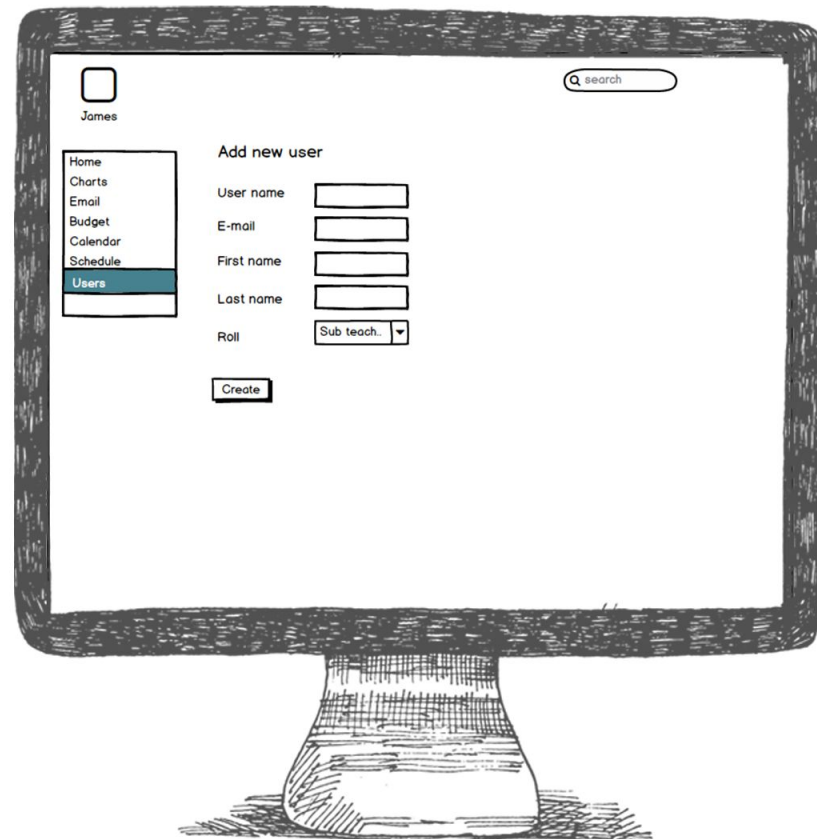
Checks task check box



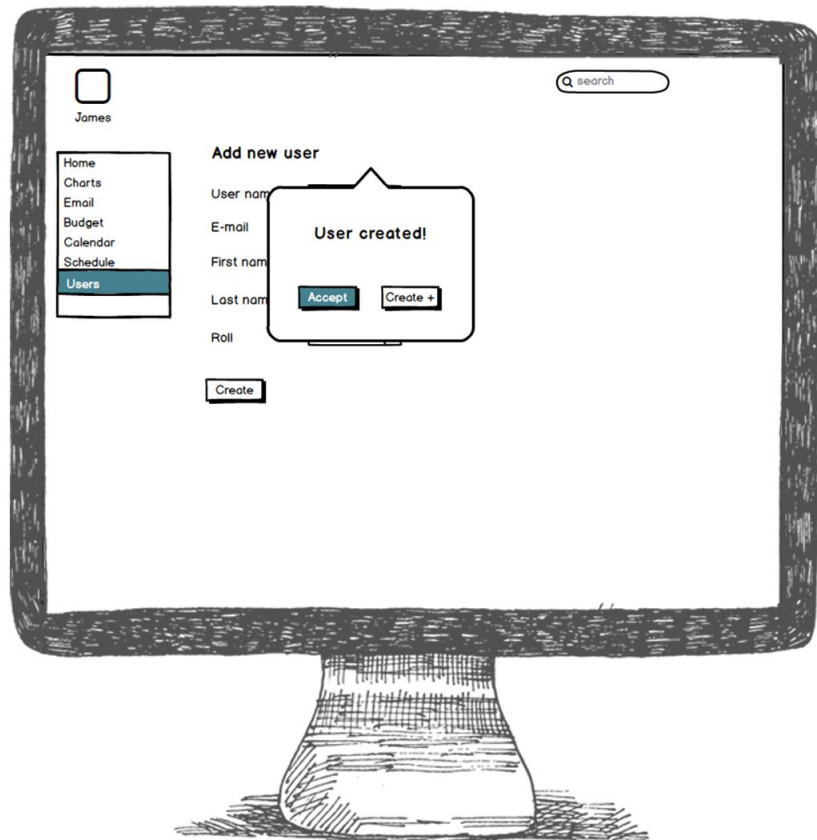
Clicks on user



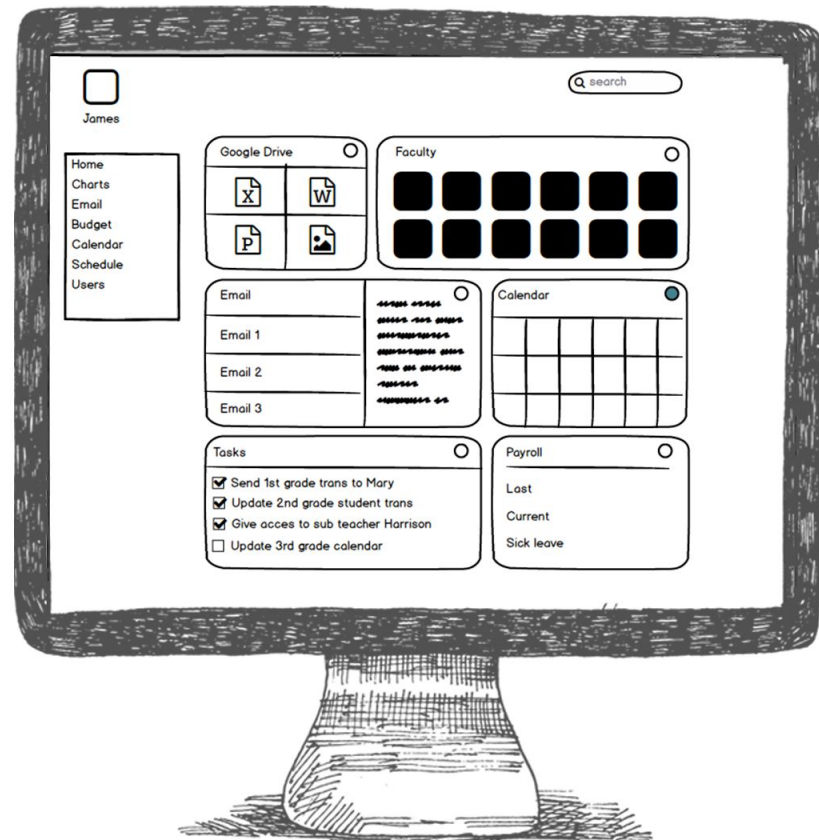
User section



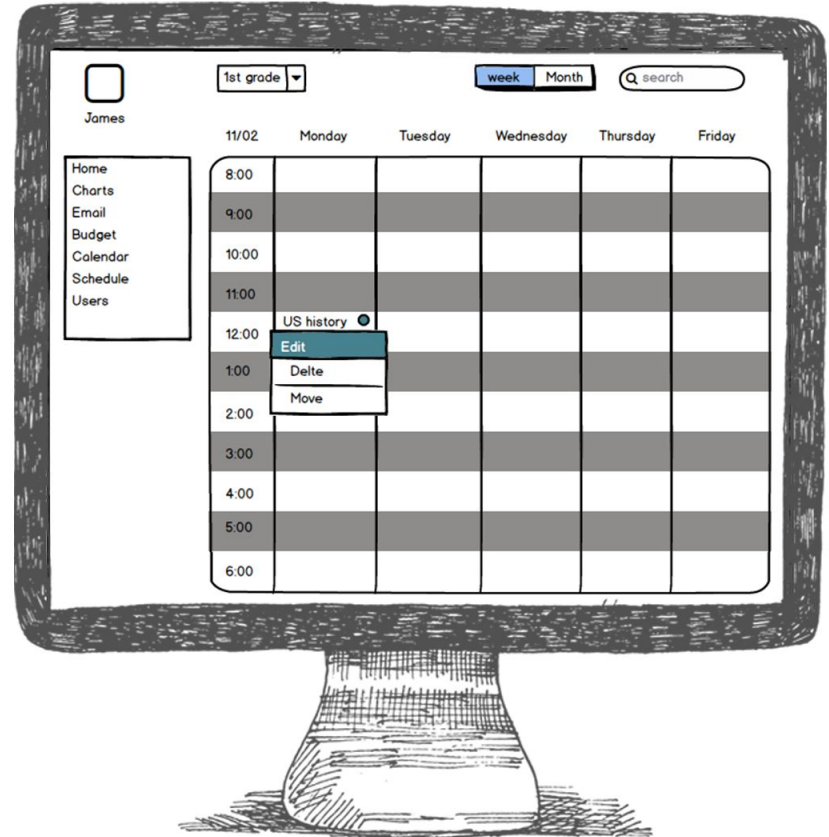
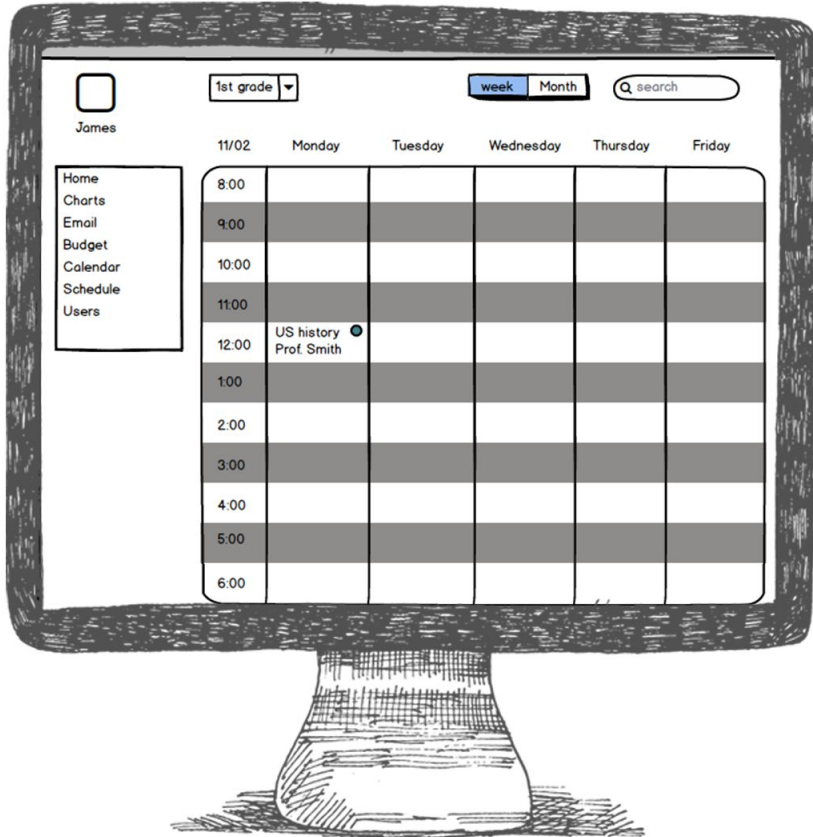
Adds user



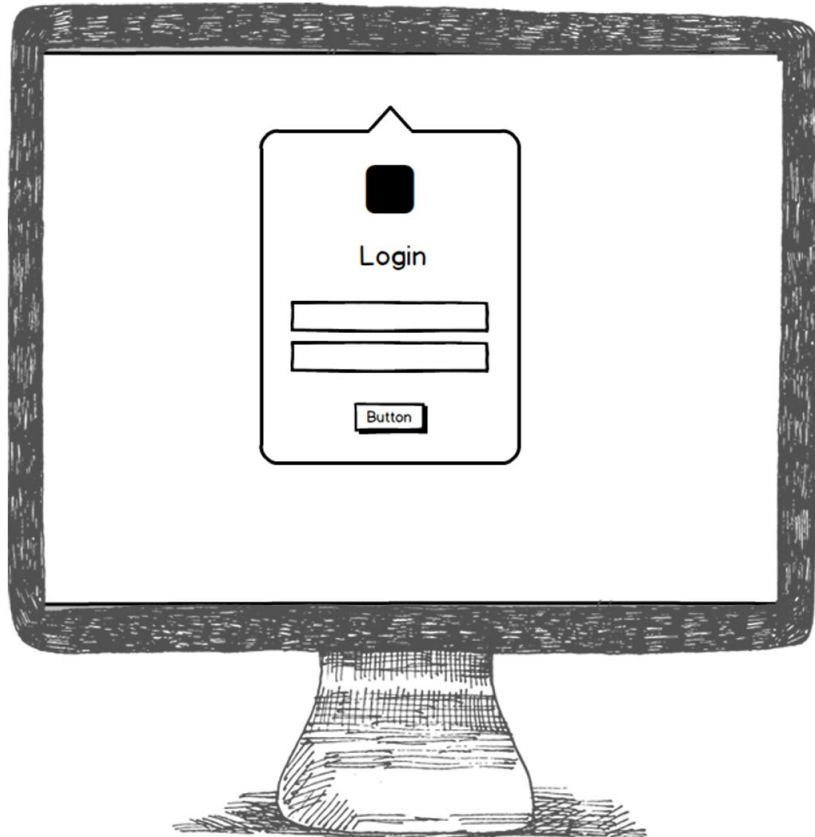
Clicks on calendar



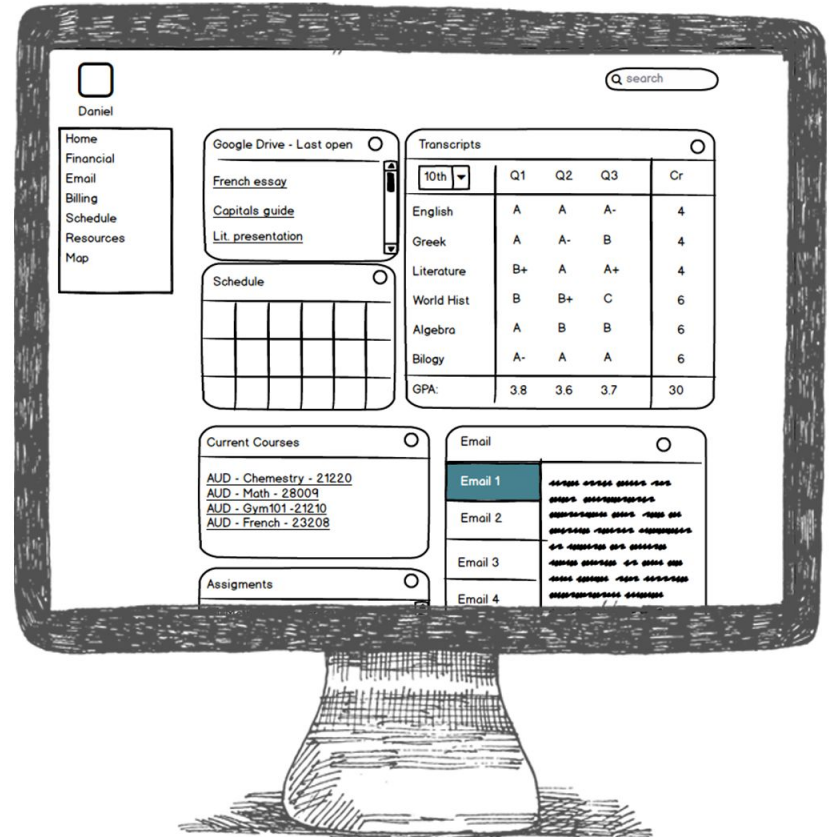
Edits event



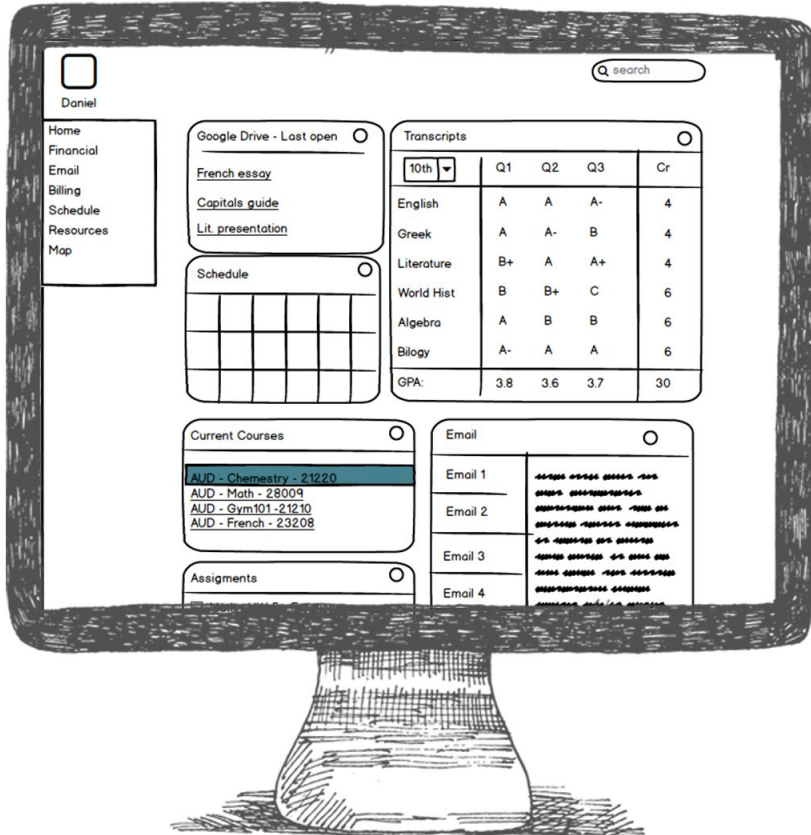
Daniel logs in



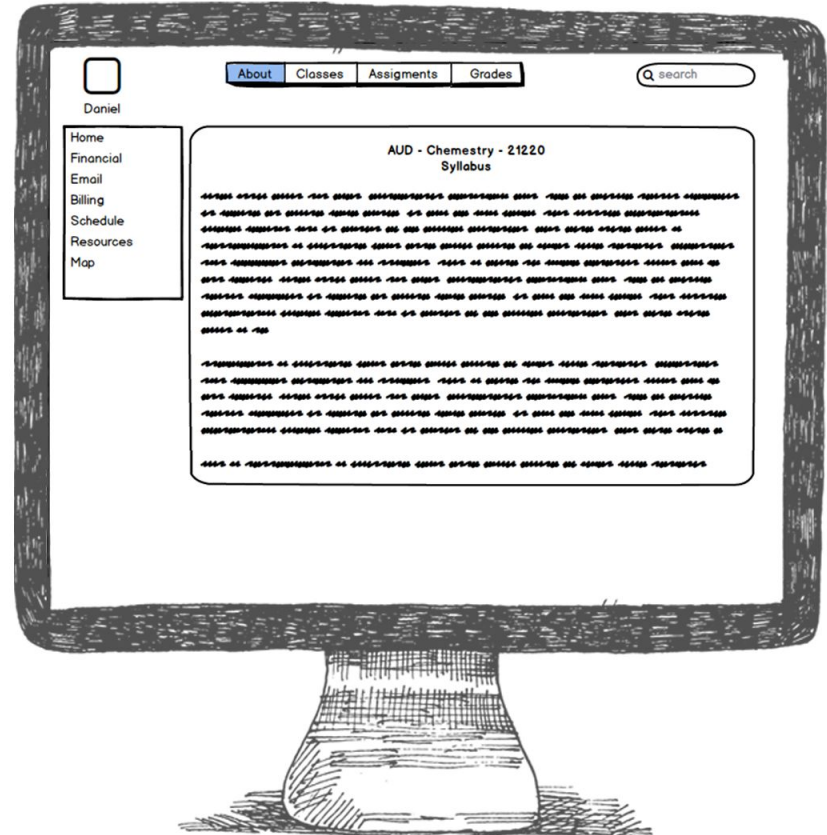
Reads e-mail



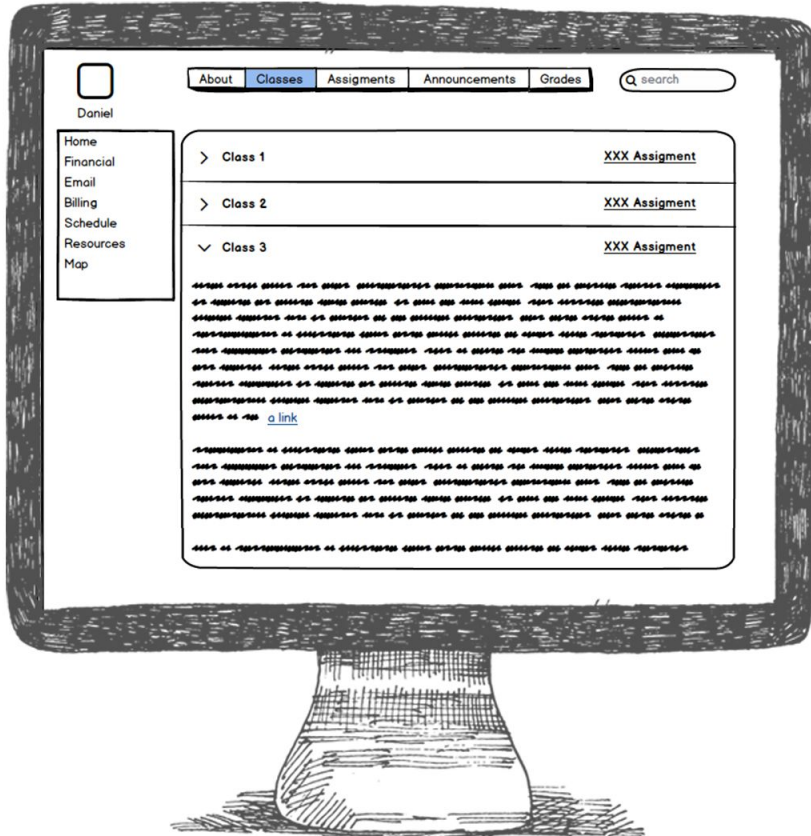
Clicks on Chemistry



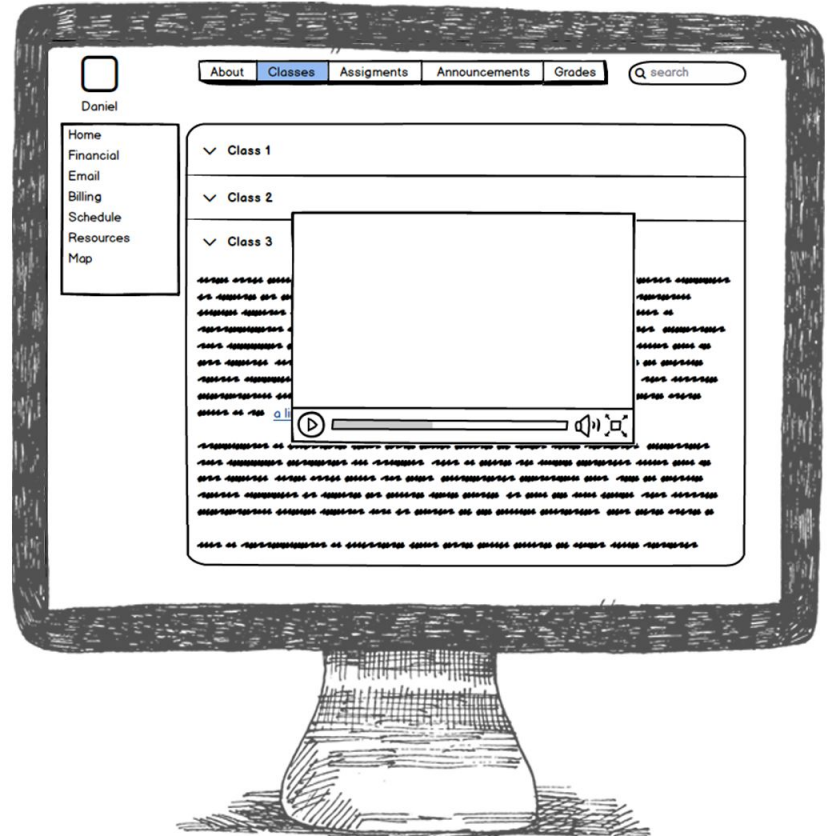
About section



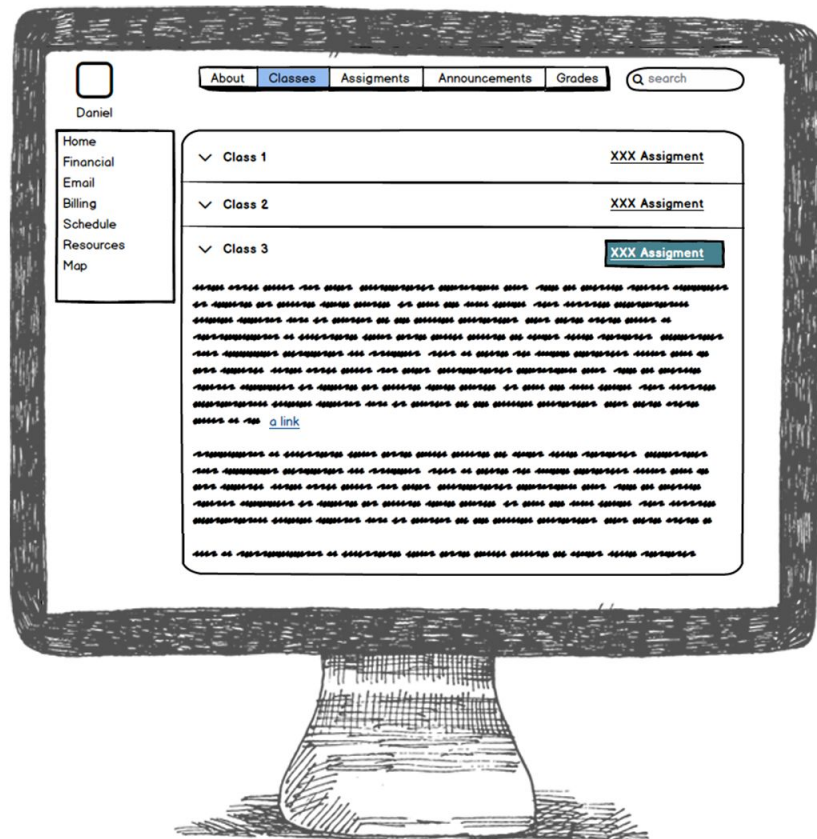
Class section



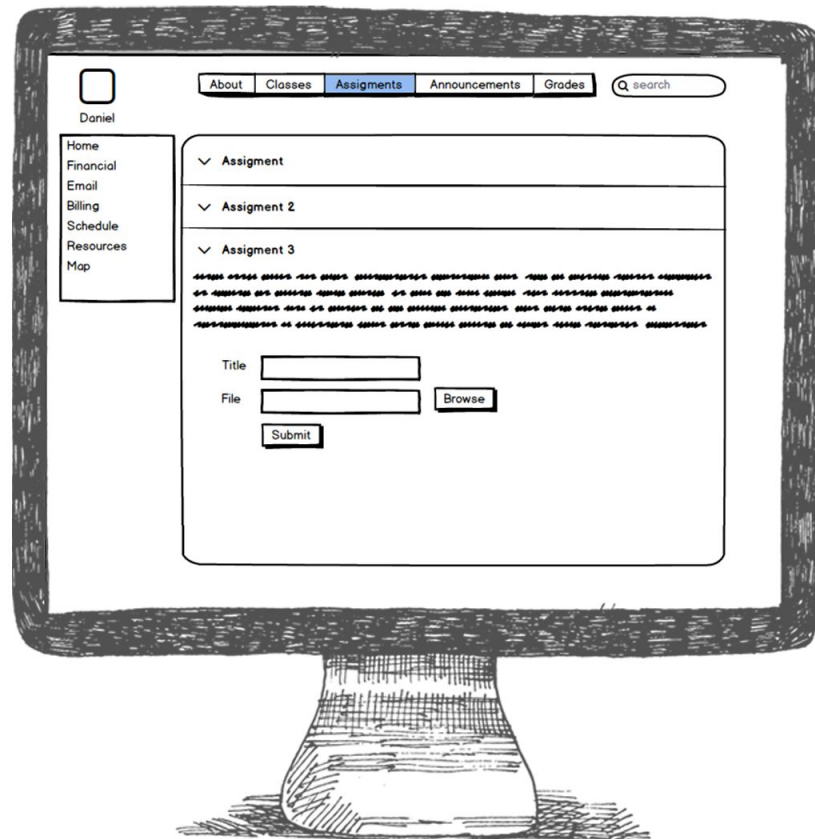
Watches video



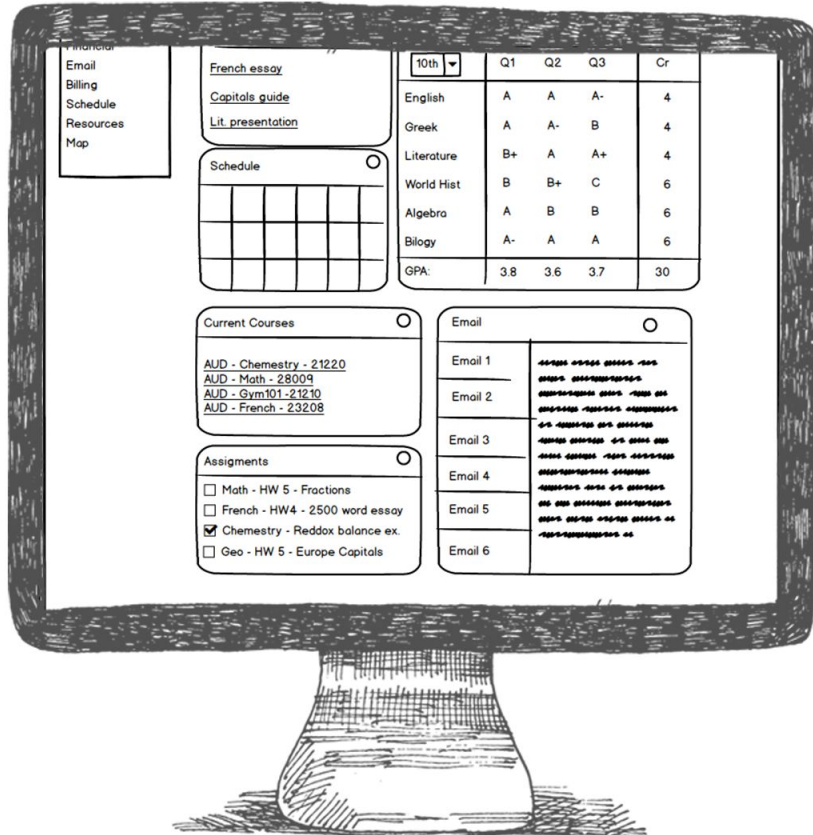
Clicks on assignment



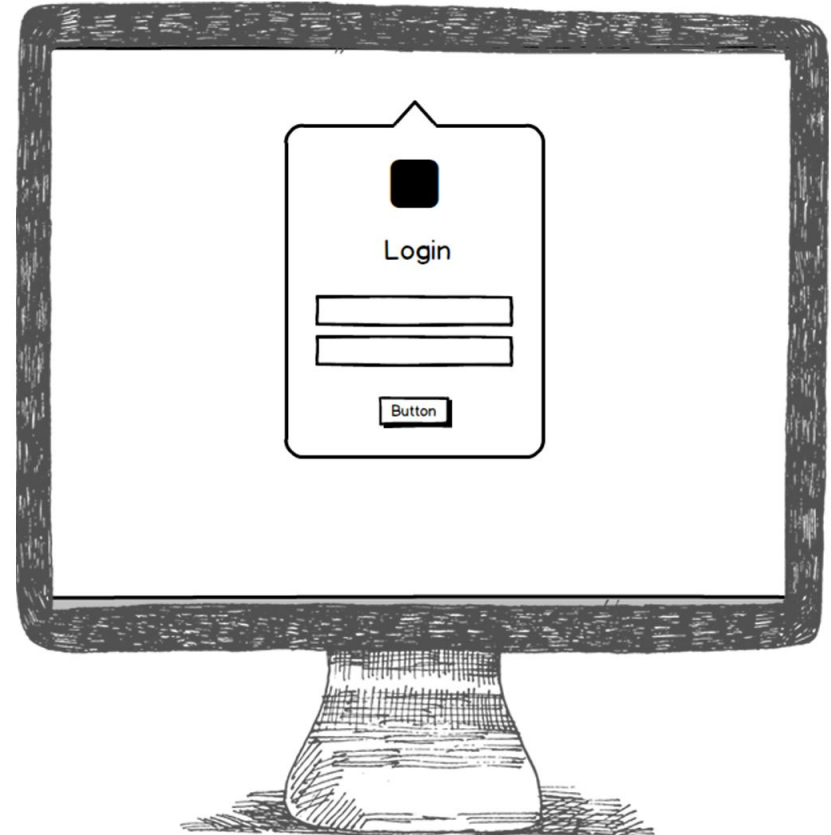
Fills information



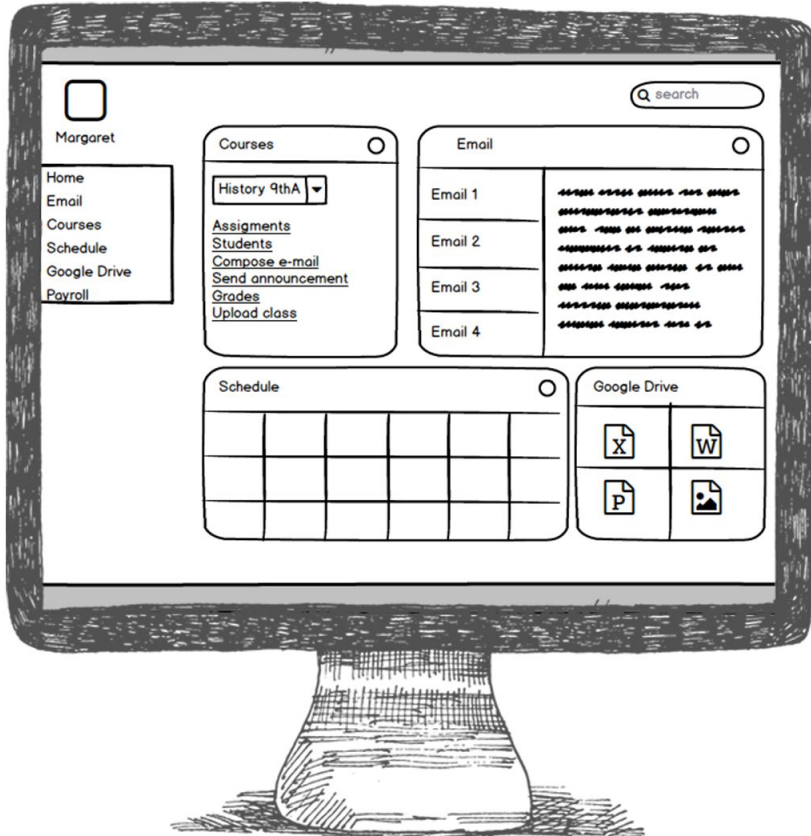
Checks task box



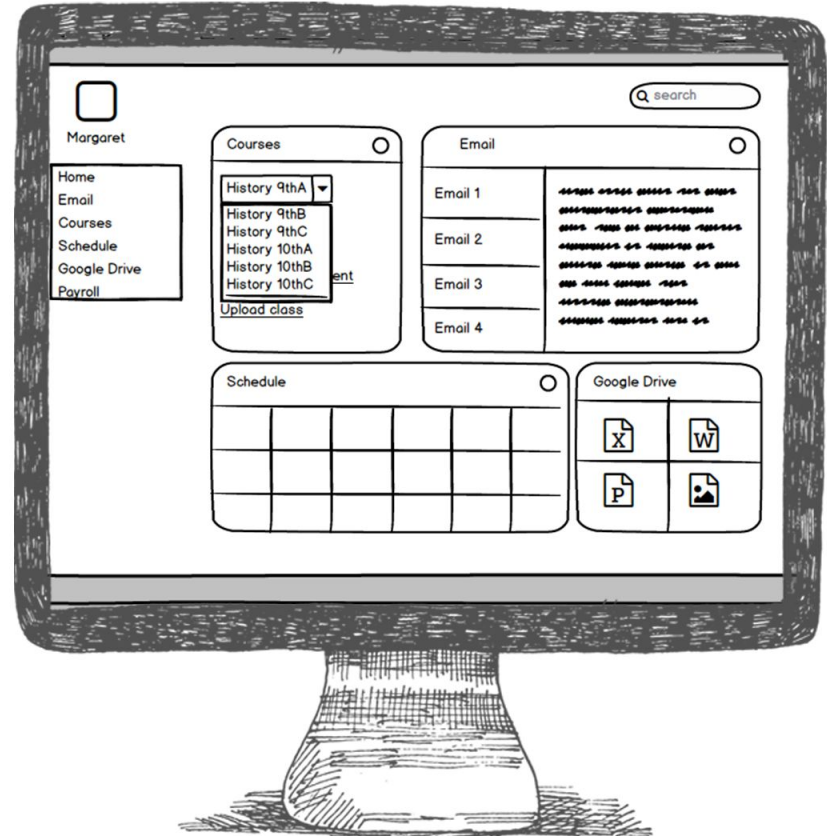
Looks for 10th grade



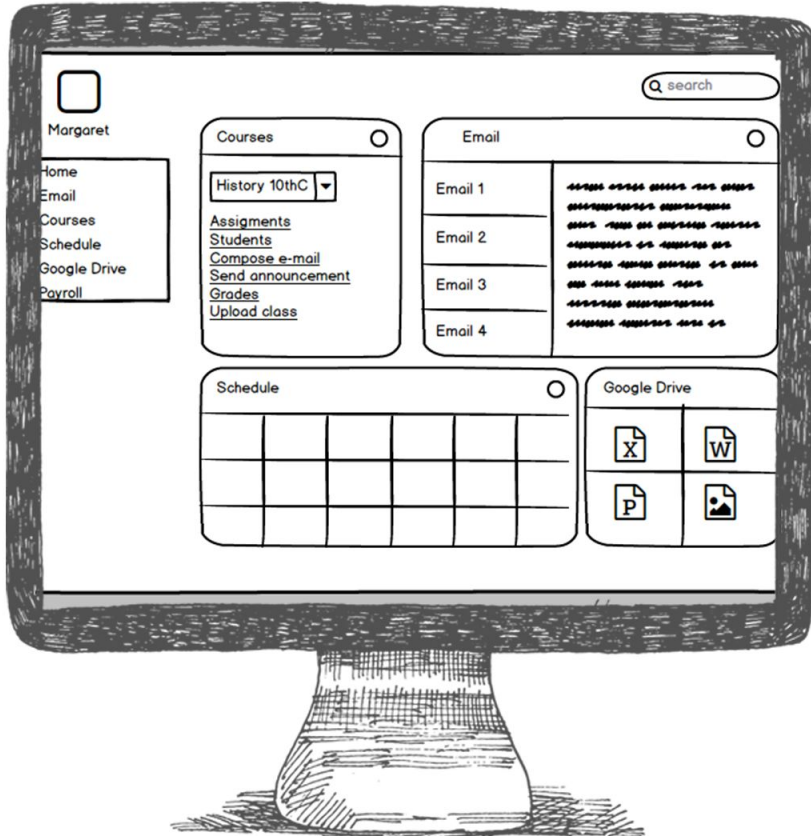
Main dashboard



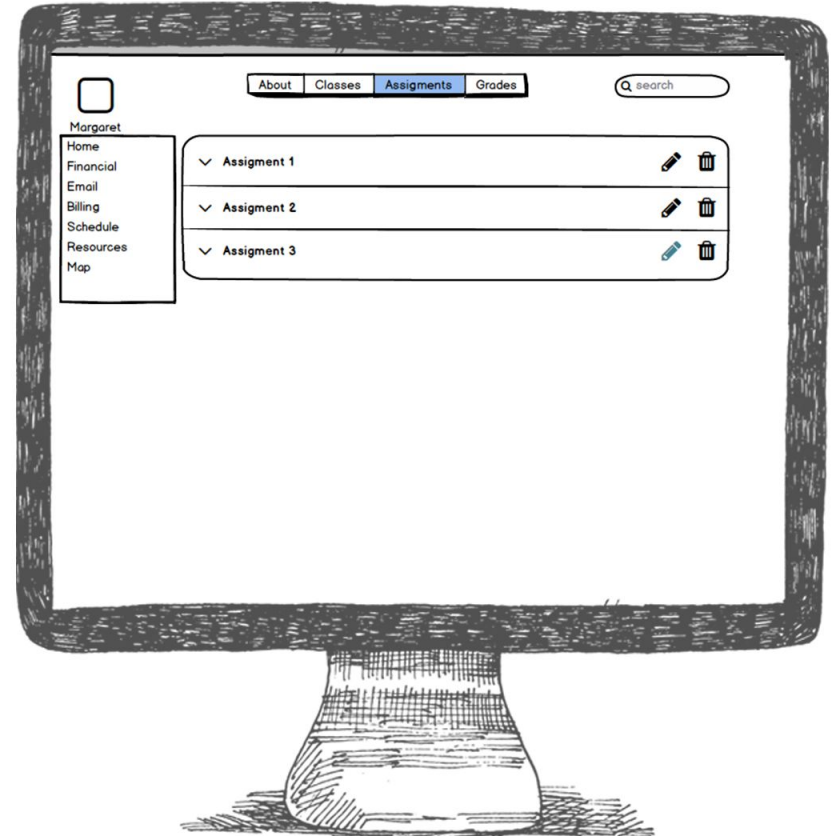
Looks for 10th grade



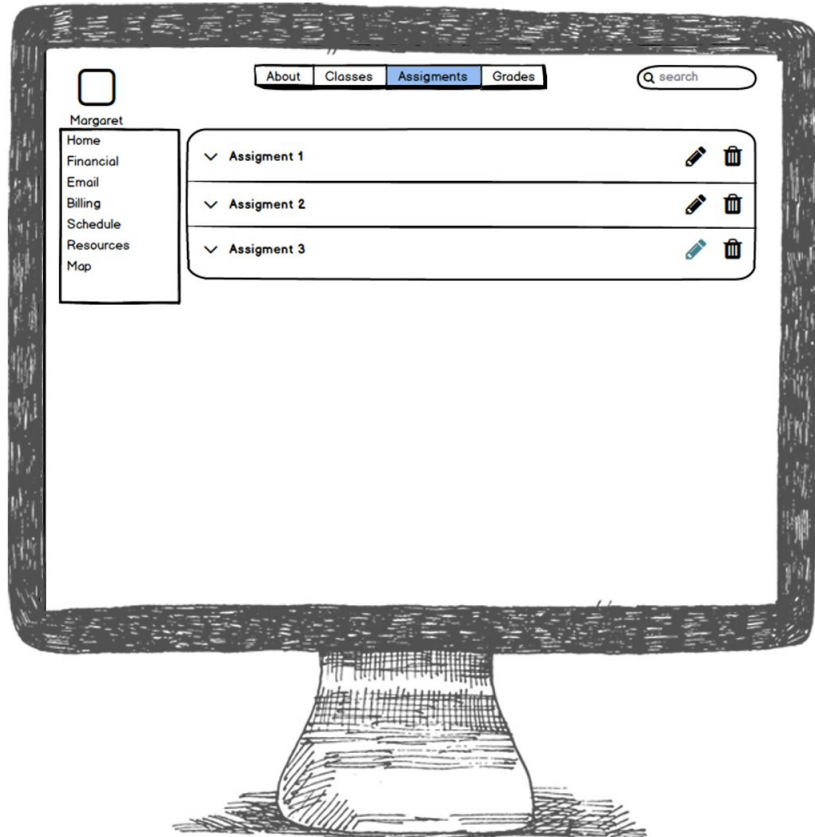
Choose option



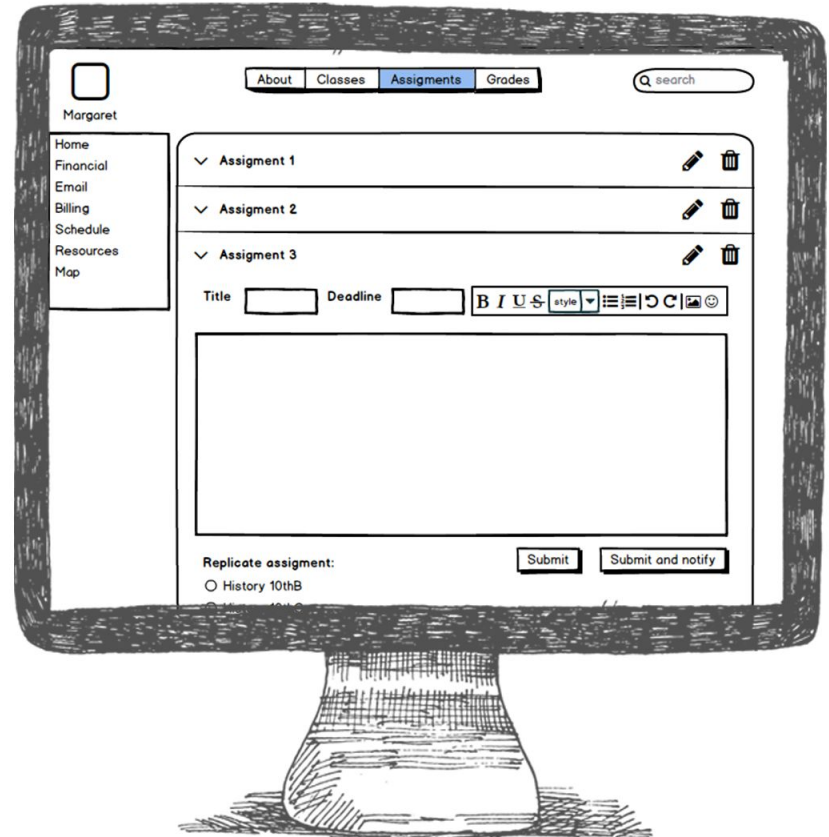
Goes to assignment section



Clicks on add assignment



Fills fields





 james.davis



Sign In

James logs in



James Davis

Home

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Payroll

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Settings

E-MAIL

Dean Matilda Green Finals	9:09	From: Matilda Green Subject: Finals
David Williams Grades	9:01	Dear James,
Jane Smith Meeting	8:52	Im writing to let you know that the daes for finals are set, will be updating the faculty calendar to help everybody be preapred and have time to make any necessary adjustment.
James Richards Inuqery about as...	8:39	Thanks for your patience, don't hesitate to let me know if you have any questions or comments.
Diana Taylor Student meeting	8:39	Regards, Dean Matilda Green

TASKS

- ☐ Update 2nd grade transcripts
- ☐ Share 5th grade report excell with Mary Jones
- ☐ Give acces to sub teacher Harrison
- ☐ Update calendar
- ☐ Schedule board meeting
- ☐ 2016-2017 reports

SCHEDULE

My calendar

☒ Weekly ☐ Monthly

< June >

	MONDAY 6/21	TUESDAY 6/22	WEDNESDAY 6/23	THURSDAY 6/24	FRIDAY 6/25	SATURDAY	SUNDAY
7 AM							
8 AM	Staff Meeting Conference Room						
9 AM			TDR Training				
10 AM		Report analysis					
11 AM	Conference Call Matt Thomas			Intern Interview Check-in with Rob	Analytics and metrics Meeting		

James checks his email



James Davis

[Home](#)[Tasks](#)[Emails](#)[G Drive](#)[Budget](#)[Analysis](#)[Schedule](#)[Transcripts](#)[Payroll](#)[Directory](#)[Users](#)[Settings](#)

E-MAIL

Dean Matilda Green Finals	9:09	From: Davis Williams Subject: Finals	9:01
David Williams Grades	9:01	Hello James, I checked the files you sent, and here is the file with the grades so you can add them for the final report. Let me know if there is something else I can do so we can finalize this. Best, David	
Jane Smith Meeting	8:52		
James Richards Inuqery about as...	8:39		
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SCHEDULE

☒ Weekly ☐ Monthly[June](#)

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James Davis

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SCHEDULE

☒ Weekly ☐ Monthly

[June](#)

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Clicks on schedule right corner to go this section



James Davis

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SCHEDULE

My calendar



Weekly



Monthly

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	MONDAY 6/21	TUESDAY 6/22	WEDNESDAY 6/23	THURSDAY 6/24	FRIDAY 6/25	SATURDAY	SUNDAY
7 AM							
8 AM	Staff Meeting Conference Room						
9 AM			TDR Training				
10 AM		Report analysis					
11 AM	Conference Call Matt Thomas			Intern Interview Check-in with Rob	Analytics and metrics Meeting		
12 PM	Financial Meeting				Revise dept. goals		
1 PM		Education Council Meeting					
2 PM		Update reports		Conference Call Jennifer Robins			
3 PM	Send staff invite				Check ava		
4 PM				Financial Meeting			
5 PM							
6 PM							
7 PM							

Revise his schedule for the day

James Davis

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SCHEDULE

My calendar

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< June >

🕒

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1 PM							
2 PM							
3 PM	Send staff invite				Check ava		
4 PM							
5 PM							
6 PM							
7 PM							

X

Name: TDR Training

Date: 06/23/2017

From: 9:00 AM To: 2:00PM

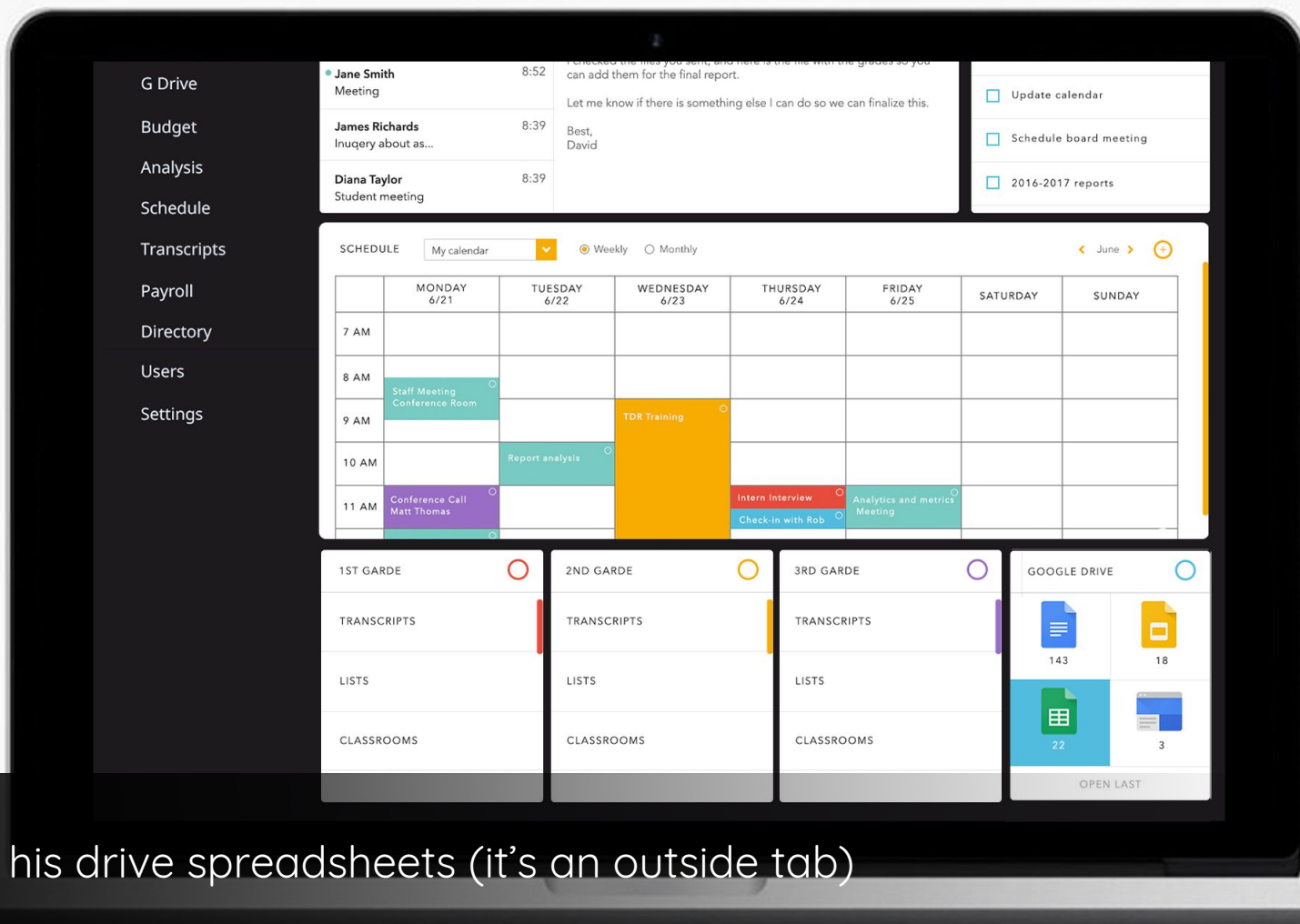
Calendar: My Calendar

Description:

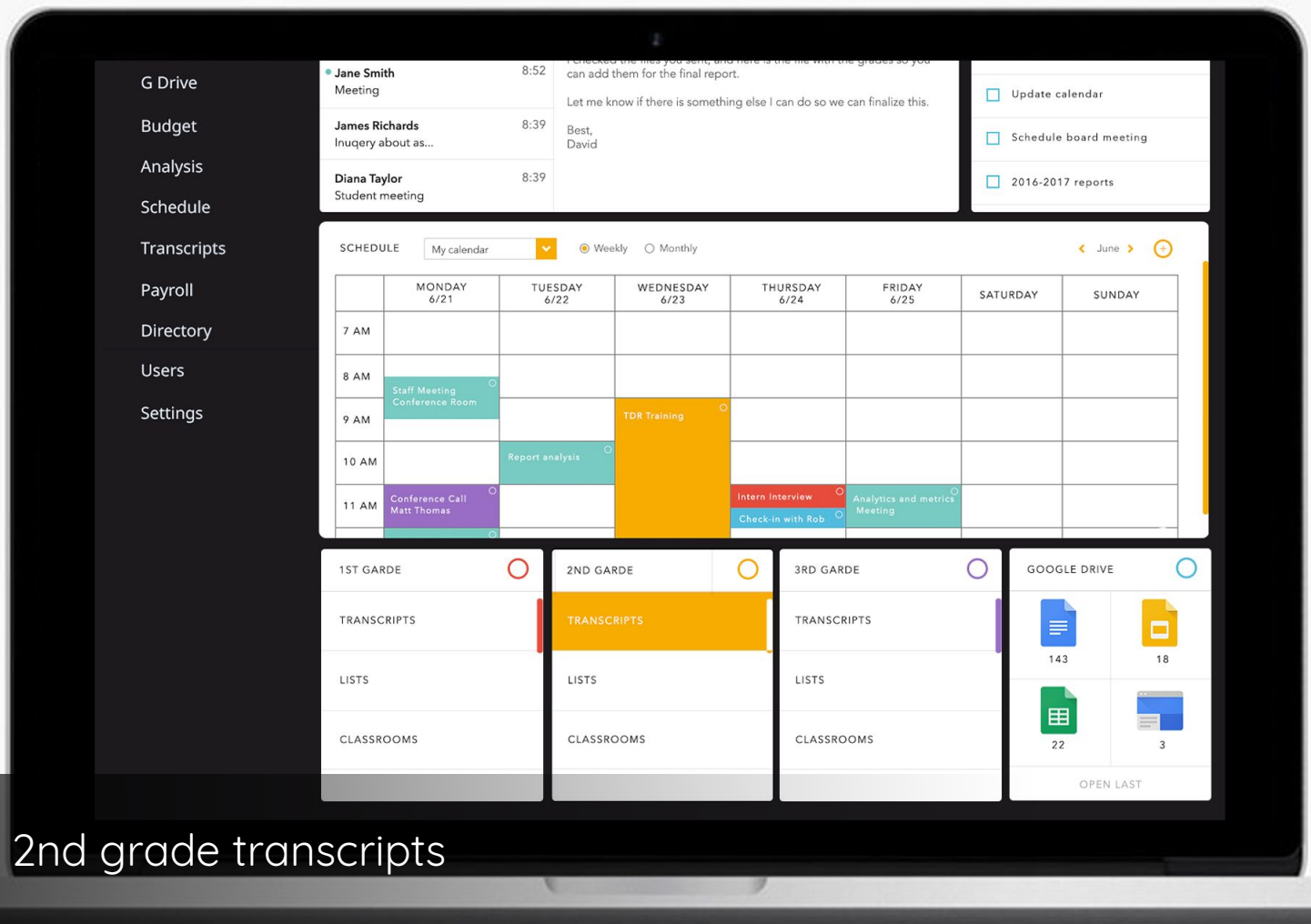
Color: ● ● ● ● ●

Delete Edit

Makes a change on his schedule



Goes to his drive spreadsheets (it's an outside tab)



Click in 2nd grade transcripts

James Davis

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ADD NEW USER

User name E-mail First name Last name Roll [Create](#)

Creates a new user

James Davis

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ADD NEW USER

User name E-mail First name Last name Roll [Create](#)

Congratulations!
User ana.naison Created

[Accept](#)[Create +](#)

User created



James Davis

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SCHEDULE

My calendar



Weekly



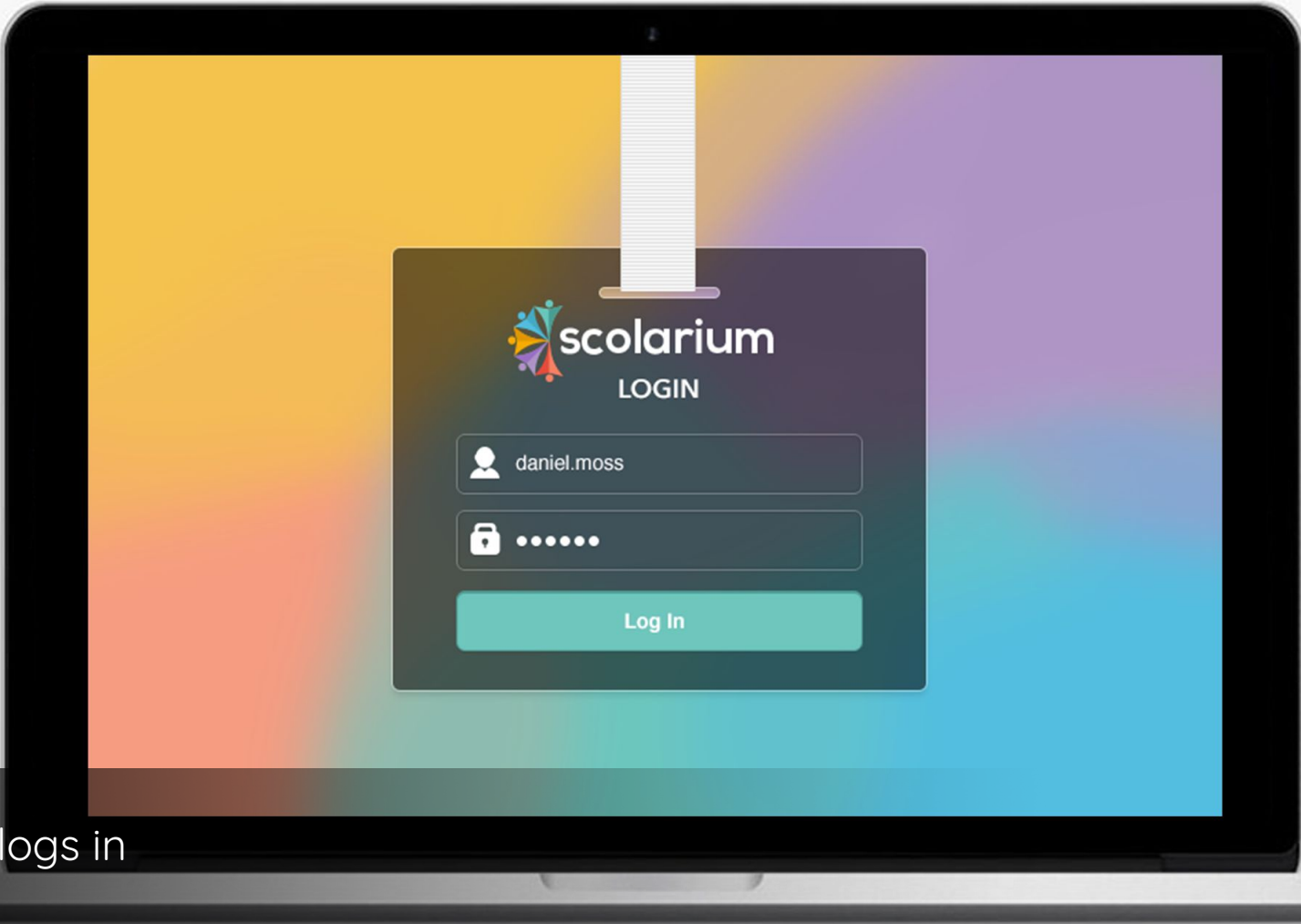
Monthly

June





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Checks tasks as completed



sclarium
LOGIN

 daniel.moss

 •••••

Log In

Daniel logs in

Daniel Moss

Home

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Services

Seetings

E-MAIL

Lisa Martin 4:09
Chemistry HW reminder

From: Lisa Martin
Subject: Meeting

Jeff Hughes 4:01
Project Grades

Sheldon Green 3:52
Assignment part 1

Ana Gibbins 3:39
Article

Brad Goodman 3:12
Borrowed book

Class,

Just a friendly reminder that you have until midnight to submit you Reddox exercises, if you need help don't hesitate on checking the online lesson.

See you tomorrow at class
Prof. Martin

TRANSCRIPTS

11th grade

	Q1	Q2	Q3	CR
English	A	A	A-	4
W. History	A	B+	B	4
Algebra	B+	B	B	4
Biology	B	A	A-	6
Spanish	A	A-	B	6

CURRENT COURSES

[AUD - CHEMESTRY - 21220](#)

[AUD - MATH - 21922](#)

[AUD - BIOLOGY- 26511](#)

[AUD - FRENCH - 21620](#)

ASSIGMENTS

☐ Chemistry - Reddox Balance ex.

☐ Math - HW5 - Fractions

☐ French -HW4 - 2500 words essay

☐ Geography - HW5 - Capitals

☐ English - Finish group project

☐ Biology - Evolution theory essay

GOOGLE DRIVE - LAST

[Essay - french](#)

[Guide, capitals](#)

[Lit presentation](#)

[Book summary](#)

Checks e-mail that reminds him about the chemistry HW

Daniel Moss

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Seetings

E-MAIL

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CURRENT COURSES

[AUD - CHEMESTRY - 21220](#)

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GOOGLE DRIVE - LAST

[Essay - french](#)

[Guide, capitals](#)

[Lit presentation](#)

[Book summary](#)

Clicks on courses: Chemistry



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AUD - CHEMESTRY - 21220 Syllabus

Course Description:

Students explore the fundamental principles of chemistry which characterize the properties of matter and how it reacts. Computer-based and traditional laboratory techniques are used to obtain, organize and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Topics include, but are not limited to: measurement, atomic structure, electron configuration, the periodic table bonding, gas laws, properties of liquids and solids, solutions, stoichiometry, reactions, kinetics, equilibrium, acids and bases, and nuclear chemistry

Main Goals:

The main goal of this program is to provide a solid foundation in the study of matter and its changes. Through many activities students will demonstrate how theory is applicable in laboratory situations. All students will develop good methods of problem solving and proper laboratory technique.

Requirements:

Laboratory Activities:
Chapter tests/quizzes
Research Projects

Resources:

Hand held Probeware (Vernier)
Computers on Wheels
General Laboratory Equipment

Student expectations:

1. demonstrate an active involvement in their learning.
2. demonstrate logical thinking and problem solving ability.
3. effectively communicate through writing, listening, speaking, and reading across all content areas.
4. identify goals and set priorities to prepare for life and career decision making

Main Chemistry screen

Daniel Moss

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AUD - CHEMISTRY - 21220

Classes

> Class 1

Assignment: Class report

> Class 2

Assignment: Group presentation

▼ Class 3

Assignment: Redox exercise

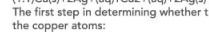
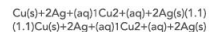
Balancing Redox Reactions

Video

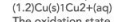
Oxidation-Reduction Reactions, or redox reactions, are reactions in which one reactant is oxidized and one reactant is reduced simultaneously. This module demonstrates how to balance various redox equations.

Identifying Redox Reactions

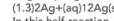
The first step in balancing any redox reaction is determining whether or not it is even an oxidation-reduction reaction, which requires that species exhibits changing oxidation states during the reaction. To maintain charge neutrality in the sample, the redox reaction will entail both a reduction component and an oxidation components and is often separated into independent two hypothetical half-reactions to aid in understanding the reaction. This requires identifying which element is oxidized and which element is reduced. For example, consider this reaction:



The first step in determining whether the reaction is a redox reaction is to splitting the equation into two hypothetical half-reactions. Let's start with the half-reaction involving the copper atoms:



The oxidation state of copper on the left side is 0 because it is an element on its own. The oxidation state of copper on the right hand side of the equation is +2. The copper in this half-reaction is oxidized as the oxidation states increases from 0 in Cu to +2 in Cu^{2+} . Now consider the silver atoms



In this half-reaction, the oxidation state of silver on the left side is a +1. The oxidation state of silver on the right is 0 because it is an element on its own. Because the oxidation state of silver decreases from +1 to 0, this is the reduction half-reaction.

Goes to classes for a recap

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Assignment: Reddox exercise

Balancing Redox Reactions

Video

Oxidation-Reduction Reactions
to balance various redox equations

Identifying Redox Reactions
The first step in balancing any redox reaction is to identify the species that are oxidized and reduced during the reaction. To do this, the reaction is separated into independent two half-reactions. For example, consider the following reaction:

$$\text{Cu(s)} + 2\text{Ag}^+(\text{aq}) \rightarrow \text{Cu}^{2+}(\text{aq}) + 2\text{Ag(s)}$$

(1.1) $\text{Cu(s)} + 2\text{Ag}^+(\text{aq}) \rightarrow \text{Cu}^{2+}(\text{aq}) + 2\text{Ag(s)}$
The first step in determining which species is oxidized and which is reduced is to identify the oxidation states of the copper atoms:

$$\text{Cu(s)} \rightarrow \text{Cu}^{2+}(\text{aq})$$

(1.2) $\text{Cu(s)} \rightarrow \text{Cu}^{2+}(\text{aq})$

The oxidation state of copper on the left side is 0 because it is an element on its own. The oxidation state of copper on the right hand side of the equation is +2. The copper in this half-reaction is oxidized as the oxidation states increases from 0 in Cu to +2 in Cu^{2+} . Now consider the silver atoms

$$2\text{Ag}^+(\text{aq}) \rightarrow 2\text{Ag(s)}$$

(1.3) $2\text{Ag}^+(\text{aq}) \rightarrow 2\text{Ag(s)}$

In this half-reaction, the oxidation state of silver on the left side is a +1. The oxidation state of silver on the right is 0 because it is an element on its own. Because the oxidation state of silver decreases from +1 to 0, this is the reduction half-reaction.



...taneously. This module demonstrates how

...that species exhibits changing oxidation
of an oxidation components and is often
ment is oxidized and which element is

Let's start with the half-reaction involving

Watches a video linked to the class

Daniel Moss

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AUD - CHEMISTRY - 21220

Assignments

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Determine the oxidation number of the elements in each of the following compounds:

a. H_2CO_3 b. N_2 c. $\text{Zn}(\text{OH})_4$ d. NO_2 e. LiH f. Fe_3O_4

Title

File

Browse

Submit

Submits his assignment

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Services

Seetings

E-MAIL

Lisa Martin 4:09
Chemestry HW reminder

From: Lisa Martin
Subject: Meeting

4:09

Jeff Hughes 4:01
Project Grades

Class,

Sheldon Green 3:52
Assignment part 1

Just a friendly reminder that you have until midnight to submit you Reddox exercises, if you need help don't hesitate on checking the online lesson.

Ana Gibbins 3:39
Article

See you tomorrow at class
Prof. Martin

Brad Goodman 3:12
Borrowed book

TRANSCRIPTS

11th grade

	Q1	Q2	Q3	CR
English	A	A	A-	4
W. History	A	B+	B	4
Algebra	B+	B	B	4
Biology	B	A	A-	6
Spanish	A	A-	B	6

CURRENT COURSES

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[AUD - BIOLOGY- 26511](#)

[AUD - FRENCH - 21620](#)

ASSIGMENTS

☒ Chemestry - Reddox Balance ex.

☐ Math - HW5 - Fractions

☐ French -HW4 - 2500 words essay

☐ Geography - HW5 - Capitals

☐ English - Finish group project

☐ Biology - Evolution theory essay

GOOGLE DRIVE - LAST

[Essay - french](#)

[Guide, capitals](#)

[Lit presentation](#)

[Book summary](#)

Checks task box



margaret.smith



•••••

Sign In

Margaret logs in



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Laurel Geller
Meeting 4:09

Adrian McGavin
Inquiry 4:01

Britney Fletcher
Assignment part 1 3:52

Penelope Reyes
Office hours 3:39

Damien O'Brian
Updated files 3:12

No message selected

SCHEDULE

My calendar

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Monthly

	MONDAY 6/21	TUESDAY 6/22	WEDNESDAY 6/23	THURSDAY 6/24	FRIDAY 6/25
7 AM					
8 AM	US History 9th A	US History 9th B	US History 9th A	US History 9th B	
9 AM	W History 10th A		W History 10th A		Office hours
10 AM	W History 10th B		W History 10th B		
11 AM		Meeting with Lena		Dept Meeting	

GOOGLE DRIVE



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- W History 10th A
- W History 10th B
- W History 10th C

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E-MAIL

- Laurel Geller**
Meeting 4:09
- Adrian McGavin**
Inquiry 4:01
- Britney Fletcher**
Assignment part 1 3:52
- Penelope Reyes**
Office hours 3:39
- Damien O'Brian**
Updated files 3:12

No message selected

SCHEDULE

My calendar

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Monthly

	MONDAY 6/21	TUESDAY 6/22	WEDNESDAY 6/23	THURSDAY 6/24	FRIDAY 6/25
7 AM					
8 AM	US History 9th A	US History 9th B	US History 9th A	US History 9th B	
9 AM	W History 10th A		W History 10th A		Office hours
10 AM	W History 10th B		W History 10th B		
11 AM		Meeting with Lena		Dept Meeting	

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Looks for 10th grade course



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- Laurel Geller Meeting 4:09
- Adrian McGavin Inquiry 4:01
- Britney Fletcher Assignment part 1 3:52
- Penelope Reyes Office hours 3:39
- Damien O'Brian Updated files 3:12

No message selected

SCHEDULE

My calendar

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Monthly

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7 AM					
8 AM	US History 9th A	US History 9th B	US History 9th A	US History 9th B	
9 AM	W History 10th A		W History 10th A		Office hours
10 AM	W History 10th B		W History 10th B		
11 AM		Meeting with Lena		Dept Meeting	

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W History 10th C

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Laurel Geller
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Inquiry 4:01

Britney Fletcher
Assignment part 1 3:52

Penelope Reyes
Office hours 3:39

Damien O'Brian
Updated files 3:12

No message selected

SCHEDULE

My calendar

Weekly

Monthly

	MONDAY 6/21	TUESDAY 6/22	WEDNESDAY 6/23	THURSDAY 6/24	FRIDAY 6/25
7 AM					
8 AM	US History 9th A	US History 9th B	US History 9th A	US History 9th B	
9 AM	W History 10th A		W History 10th A		Office hours
10 AM	W History 10th B		W History 10th B		
11 AM		Meeting with Lana		Dept Meeting	

GOOGLE DRIVE



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3



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3

Goes to assignments

Margaret Smith

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> Assignment 1: Personal presentation



> Assignment 2: WW1 Investigation



Creates a new assignment



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➤ Assignment 1: Personal presentation

➤ Assignment 2: WW1 Investigation

▼ New assignment

Title:

Deadline:

B

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Source

Font

Size

A

X²

X₂

Letter Writing Assessment You will be writing a letter. You can write from many points of view (soldier, someone back home, modern writing to the past, past writing to future) You will be assessed on your inclusion of relevant facts, ideas and themes that we discussed in class.

Authentic voice and all relevant facts (names, places, etc.) are accurate and well used 4 – Voice is realistic and all facts are accurate well used 3 – Voice is present and most facts are accurate 2 – Voice is plain and many facts are inaccurate 1 – Voice is inappropriate and many errors exist

Upload

Upload and notify

Upload Upload and notify

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Adds the information

Margaret Smith

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> Assignment 2: WW1 Investigation



v New assignment

Title: WW1 Letter

Deadline: 06/30/17

Congratulations!

Assignment WW1 Letter
was successfully uploaded

Accept

Replicate

Letter Writing Assessment You will be writing a letter. You can write from many points of view (soldier, someone back home, modern writing to the past, past writing to future) You will be assessed on your inclusion of relevant facts, ideas and themes that we discussed in class.

Authentic voice and all relevant facts (names, places, etc.) are accurate and well used 4 – Voice is realistic and all facts are accurate well used 3 – Voice is present and most facts are accurate 2 – Voice is plain and many facts are inaccurate 1 – Voice is inappropriate and many errors exist

Upload

Upload and notify

Upload the assignment

Business Intelligence



As mentioned before this platform is going to use Business Intelligence, this is so schools and districts can gather information about what is going on and important changes.

This will help, for example, to be able to measure if after buying new equipment students are performing better, after certificating teacher they are improving their skills, measure what schools are doing better and replicate their techniques, this just a few examples of how this can benefit the education system.

The next screen is an example:



James Davis

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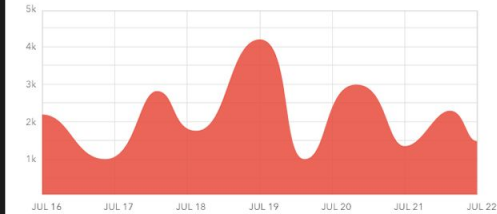
3,123

Active users

600

Latest Activities

Day Week Month



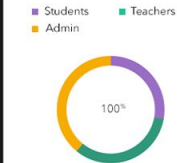
About



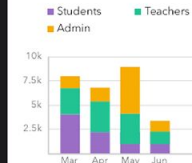
Most visited

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Assignments	5,003
Tasks	4,568

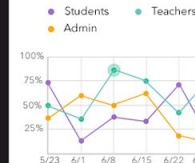
Users



Login



Schedule data



Upload the assignment

Resources



<http://www.capterra.com/school-administration-software/>

<http://blog.capterra.com/the-top-6-free-school-administration-software/>

<https://www.inetsoft.com/solutions/industry/education/>

<https://fekara.com/>

<https://school-time.co/#>

<http://www.ts-school.com/>

<http://www.projectfedena.org/>

<https://www.ascendsms.com/>

<http://schooltool.org/>

<https://gibbonedu.org/>

<http://www.opensis.com/>

http://www.editurauniversitara.ro/media/pdf/531dc26061677Business_Intelligence_in_Education.pdf

<http://er.educause.edu/articles/2016/10/running-a-bi-shop-part-one-strategic-planning>

<http://global.qlik.com/kr/explore/solutions/industries/public-sector/education>