





Perfect Timing

The Impastas



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Overview

Target Audience: Students

- Busy college students have difficulty managing their time
- Planning for assignments is hard

Proposed Solution: Crowdsourcing

- Assignment time can be tracked and used by others



Overview

Primary Tasks

- Schedule from a list of tasks
- Determine time to allot for a task



Preliminary Task:

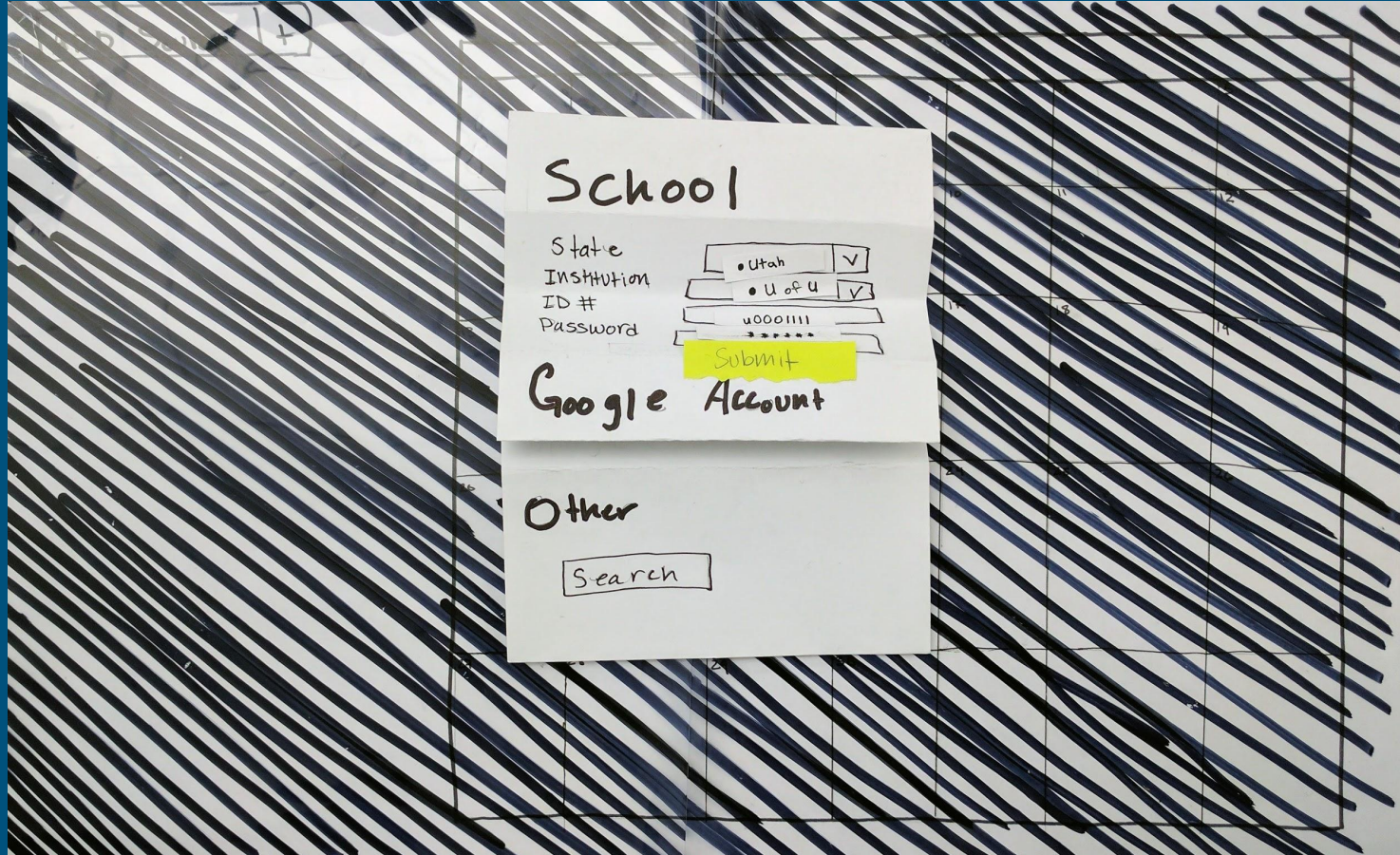
Import Class Schedule from Calendars

Initial Paper Prototype

ADD Source | +

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Initial Paper Prototype



Initial Paper Prototype

ADD Source +

- University of Utah

- Class 1

- HW 1 Schedule
- Quiz 1 Schedule
- Reading 1 Schedule

- Class 2

- Assignment 2 Schedule
- Assignment 1 Schedule

		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18 • Assignment 1 Due	19
20	21	22 • Reading 1 Due	23 • HW 1 Due	24	25 • Assignment 2 Due	26
27	28	29 • Quiz 1 Due	30			

Main Task:

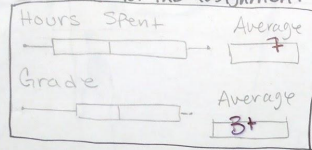
Plan Out an Upcoming Assignment

Initial Paper Prototype

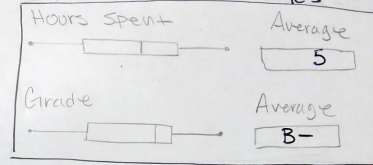
Class 2

Assignment 1

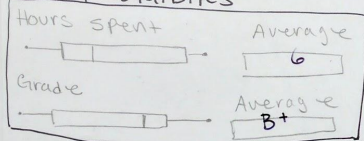
Statistics for this assignment



Overall Course Statistics



Personal Statistics



Priority

Percent of grade
Select a Priority
* required

Recommendations

Change

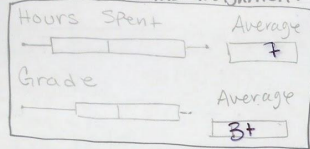
Accept &
Schedule

Initial Paper Prototype

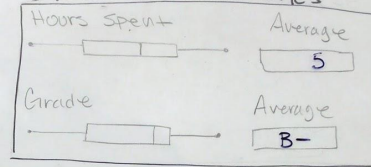
Class 2

Assignment 1

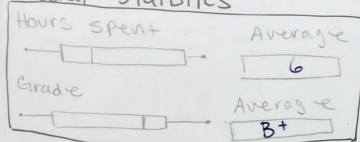
Statistics for this assignment



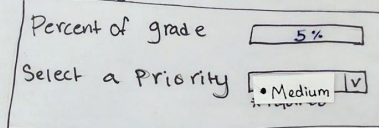
Overall Course Statistics



Personal Statistics



Priority



Recommendations

Total time: 7 hours
November 10: 2 pm - 5 pm
November 14: 6 pm - 8 pm
November 15: 5 pm - 7 pm

Priority: Medium

Change | **Accept & Schedule**

Initial Paper Prototype

ADD Source | +

- University of Utah

- Class 1

- HW 1 Schedule
- Quiz 1 Schedule
- Reading 1 Schedule

- Class 2

- Assignment 2 Schedule
- Assignment 1 Schedule

		1	2	3	4	5
6	7	8	9	10 • Assignment 1 1 2-5	11	12
13	14 • Assignment 1 6-8 PM	15 • Assignment 1 5-7 PM	16	17	18 • Assignment 1 Due	19
20	21	22 • Reading 1 Due	23 • HW 1 Due	24	25 • Assignment 2 Due	26
27	28	29 • Quiz 1 Due	30			

Sub Task:

Change a Plan

Initial Paper Prototype

Class 1 Reading 1

Statistics for this assignment

Hours Spent	Average
<input type="text" value=""/>	<input type="text" value="2.5"/>
Grade	Average
<input type="text" value=""/>	<input type="text" value="A"/>

Overall Course Statistics

Hours Spent	Average
<input type="text" value=""/>	<input type="text" value="+"/>
Grade	Average
<input type="text" value=""/>	<input type="text" value="A-"/>

Personal Statistics

Hours Spent	Average
<input type="text" value=""/>	<input type="text" value="7.5"/>
Grade	Average
<input type="text" value=""/>	<input type="text" value="A-"/>

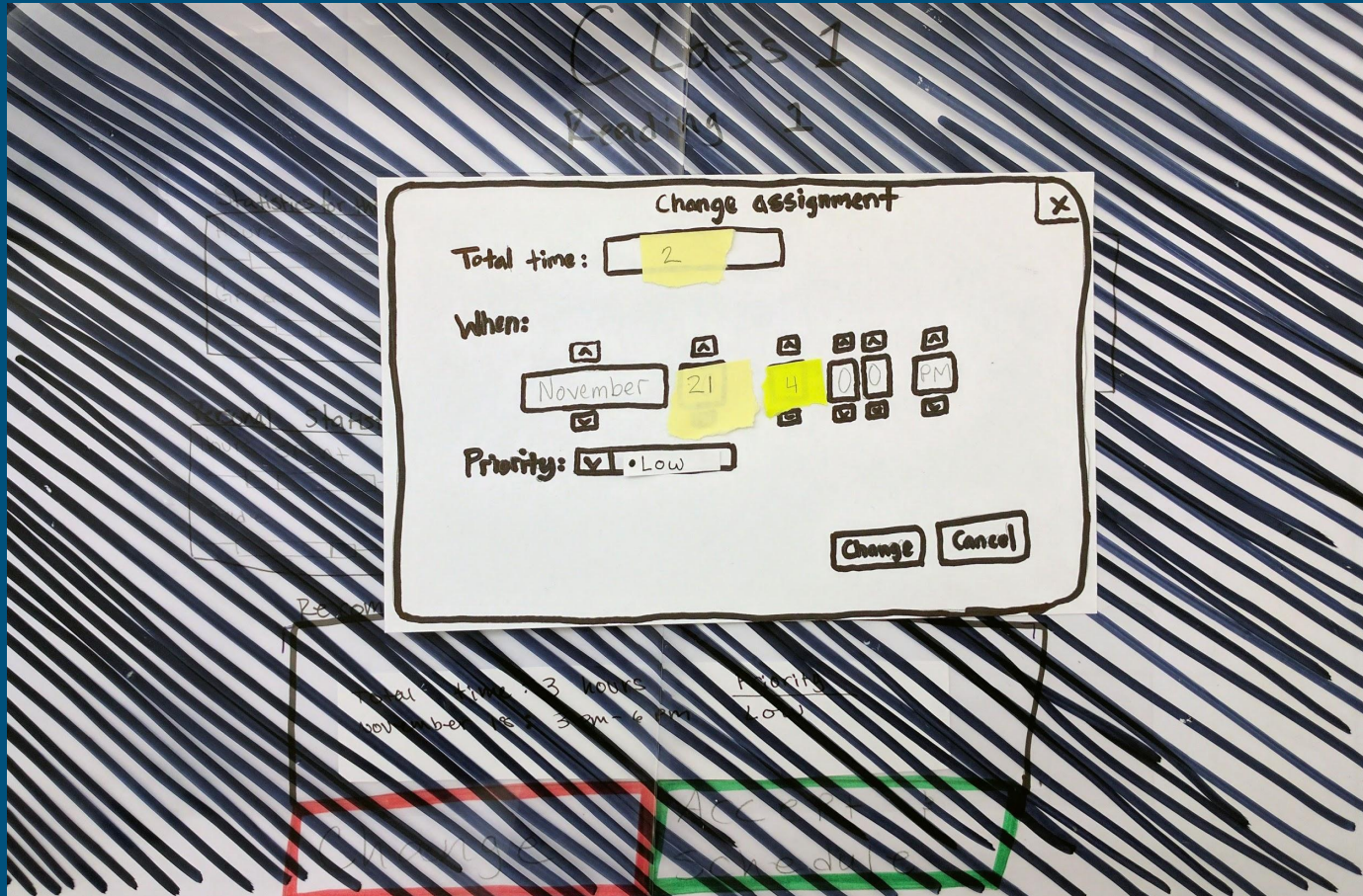
Priority

Percent of grade	<input type="text" value="1%"/>
Select a Priority	<input checked="" type="checkbox" value="required"/>

Recommendations

<input type="text" value=""/>	<input type="text" value=""/>
<input type="text" value="Change"/>	<input type="text" value="Accept & Schedule"/>

Initial Paper Prototype



Initial Paper Prototype

ADD Source +

- University of Utah

- Class 1

- HW 1 Schedule
- Quiz 1 Schedule
- Reading 1 Schedule

- Class 2

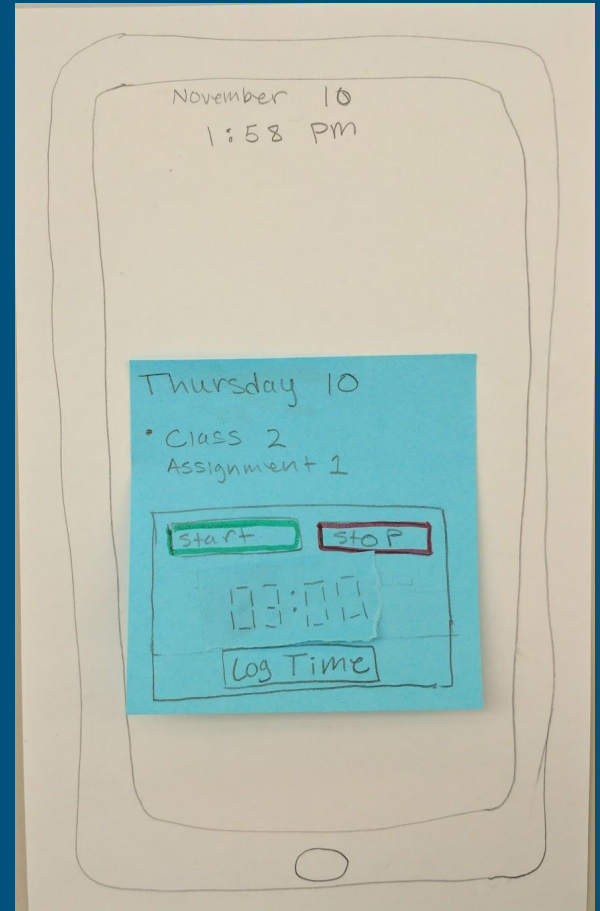
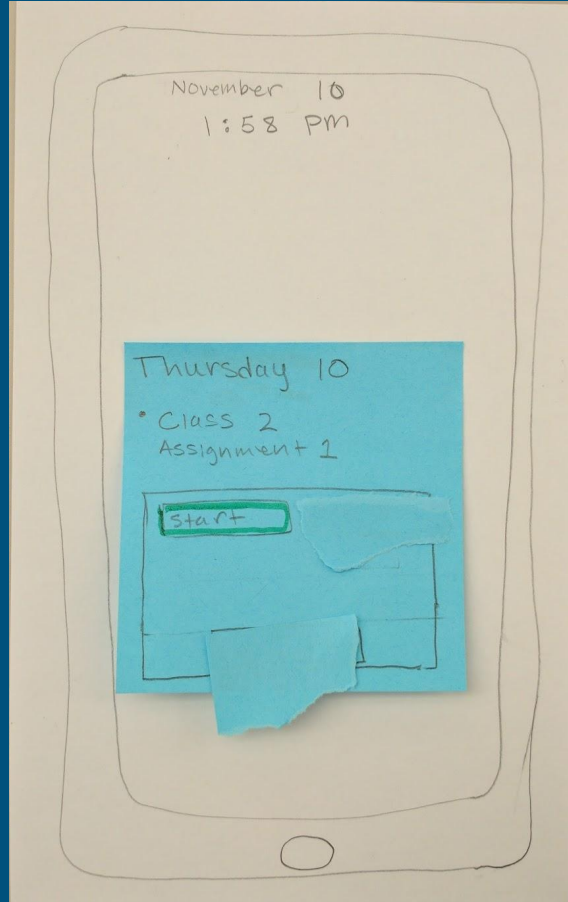
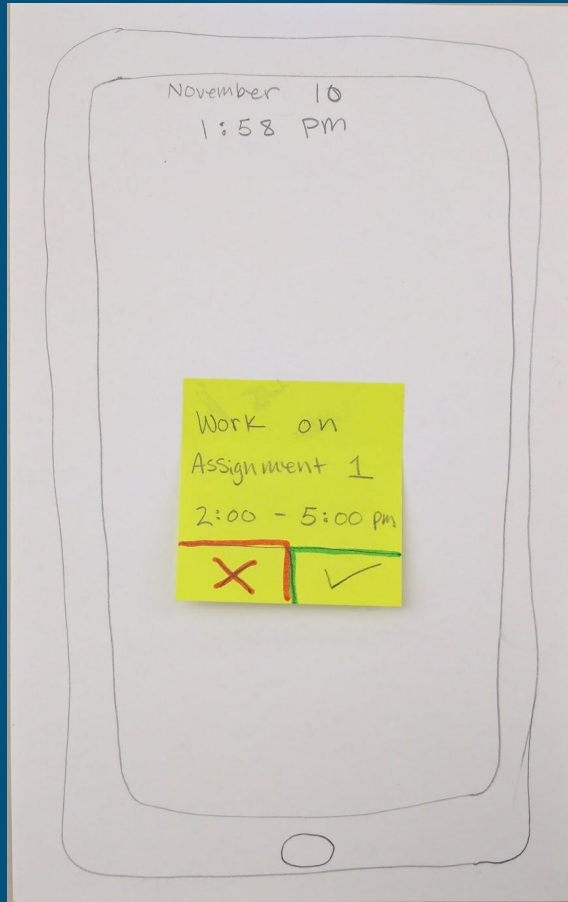
- Assignment 2 Schedule
- Assignment 1 Schedule

		1	2	3	4	5
6	7	8	9	10 • Assignment 1 2-5	11	12
13	14 • Assignment 1 6-8 PM	15 • Assignment 1 5-7 PM	16	17	18 • Assignment 1 Due	19
20	21 • Reading 1 4-6 PM	22 • Reading 1 Due	23 • HW 1 Due	24	25 • Assignment 2 Due	26
27	28	29 • Quiz 1 Due	30			

Additional Task:

Time Yourself with the Mobile App

Initial Paper Prototype



Testing Process

Tasks

- Import Canvas calendar
- Plan with auto recommendations
- Plan with manual recommendations
- Track your time with the mobile companion app



Testing Process

Communications Student

- Imported Google calendar for assignments

CS - Early Major Student

- Wasn't sure how to log in to institution

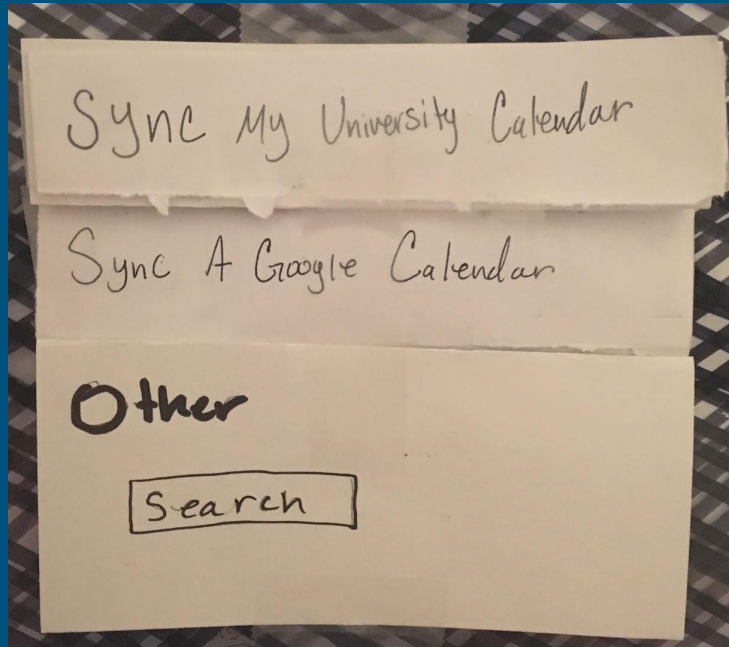
CS - Late Major Student

- Unclear what 'sources' meant
- Cancelling actions lost existing data



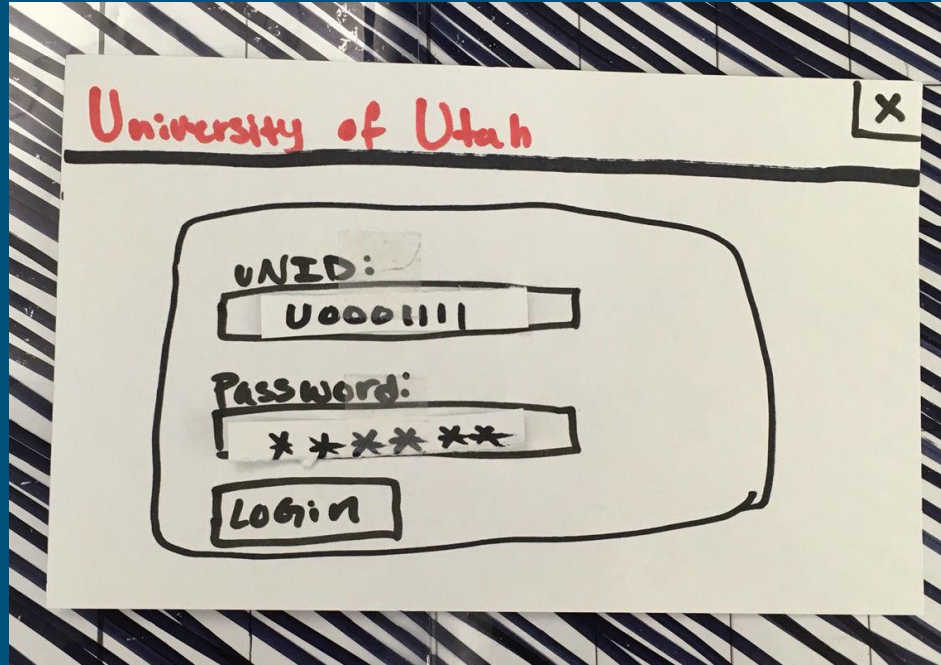
Major Changes

Sync labels made more clear



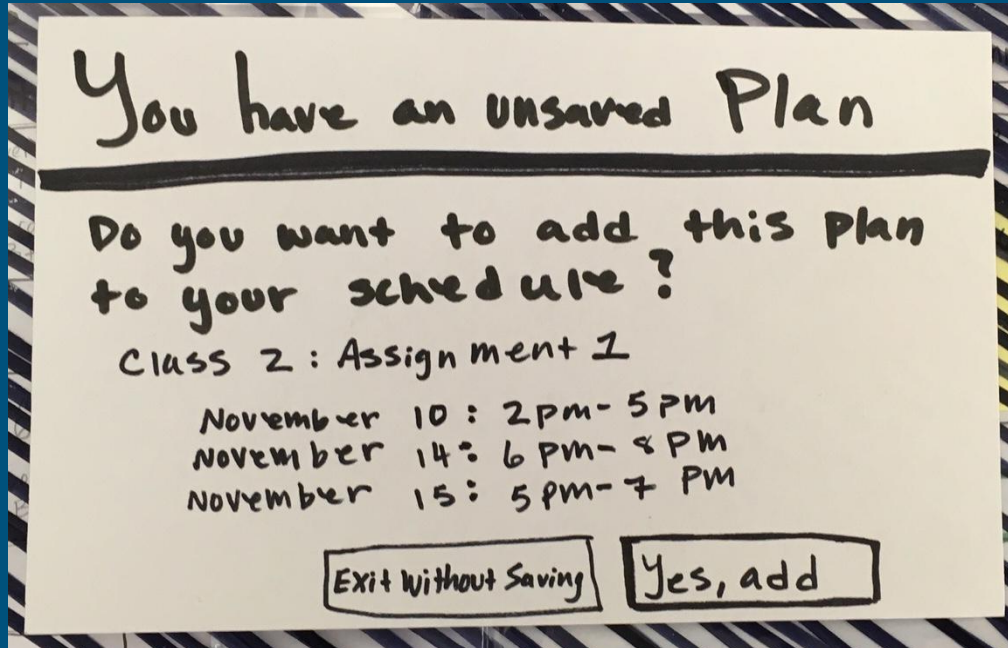
Major Changes

School login tailored to institution



Major Changes

Warning dialogs before losing changes



Final Paper Prototype

Calendar Sources

- University of Utah
 - Class 1
 - Hw 1 **Plan**
 - Quiz 1 **Plan**
 - Reading 1 **Plan**
 - Class 2
 - Assignment 2 **Plan**
 - Assignment 1 **Plan**

ADD Source **+**

		1	2	3	4	5
6	7	8	9	10 Assignment 1 1-2-5	11	12
13	14 Assignment 1 10-8 PM	15 Assignment 1 5-7 PM	16	17	18 Assignment 1 Due	19
20	21 Reading 1 4-6 PM	22 Reading 1 Due	23 Hw 1 Due	24	25 Assignment 2 Due	26
27	28	29 Assignment 2 Due	30			

Due Date **Plan** **Assignment Time**

Final Paper Prototype

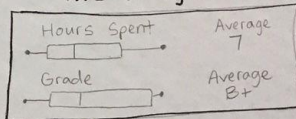
Back

Class 1 Reading 1

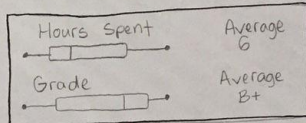


Statistics

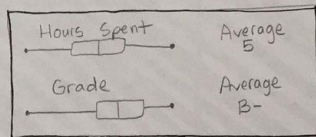
This Assignment



Personal



Overall Course



Recommended Assignment Schedule

Percentage of grade %
Select a Priority required

November 18: 3pm - 6pm

Total time: 3 hours

Cancel

Accept Plan

Digital Preliminary Task:

Import Class Schedule from Calendars

Digital Mockup

Calendar Sources							Week	Month	Year
SUN	MON	TUE	WED	THU	FRI	SAT			
1	2	3	4	5	6	7			
8	9	10	11	12	13	14			
15	16	17	18	19	20	21			
22	23	24	25	26	27	28			
29	30	1	2	3	4	5			

Digital Mockup

The image shows a digital mockup of a calendar application. At the top, there is a yellow header bar with a red close button (X) on the right. Below the header, the main interface is divided into a left sidebar and a main calendar area. The sidebar, titled "Calendar Sources", contains a button with a plus sign and the text "Add Source". The main calendar area displays "November 2016" and has navigation arrows on the left. It features a grid with days of the week (SUN to SAT) as columns and dates (1 to 30) as rows. A modal dialog box is overlaid on the calendar, containing three options: "Sync My University Calendar", "Sync a Google Calendar", and "Other Search". The dialog has a yellow background and a close button (X) in the top right corner.

November 2016							Week	Month	Year
SUN	MON	TUE	WED	THU	FRI	SAT			
1					6	7			
8					13	14			
15					20	21			
22					27	28			
29	30	1	2	3	4	5			

Digital Mockup

The image shows a digital mockup of a calendar application. At the top, there is a yellow header bar with a red close button (X) on the right. Below the header, the main interface is divided into a left sidebar and a main calendar area. The sidebar, titled "Calendar Sources", contains a button with a plus sign and the text "Add Source". The main calendar area displays the month of "November 2016" with navigation arrows on the left and view options "Week", "Month", and "Year" on the right. The calendar grid shows days from Sunday to Saturday. A yellow modal dialog box is overlaid on the calendar, titled "Sync My University Calendar" with a close button (X) in the top right corner. The dialog contains two dropdown menus: "State" with "Utah" selected and "Institution" with "University Of Utah" selected. Below these is a "Submit" button. Underneath the dialog, there is a button labeled "Sync a Google Calendar" and a section titled "Other" with a "Search" input field.

Calendar Sources

November 2016

Week Month Year

SUN MON TUE WED THU FRI SAT

1 6 7

8 13 14

15 20 21

22 27 28

29 4 5

+

Add Source

Sync My University Calendar

State Utah

Institution University Of Utah

Submit

Sync a Google Calendar

Other

Search

Digital Mockup

The image shows a digital mockup of a web interface. At the top, there is a yellow header bar with a red close button (X) on the right. Below this is a grey navigation bar containing a 'Calendar Sources' dropdown, navigation arrows, the current month 'November 2016', and view options for 'Week', 'Month', and 'Year'. A secondary grey bar shows the days of the week: 'SUN', 'MON', 'TUE', 'WED', 'THU', 'FRI', and 'SAT'. On the left side, there is a grey sidebar with a '+ Add Source' button. A large red banner is positioned across the top of the calendar grid, featuring the University of Utah logo and the text 'THE UNIVERSITY OF UTAH' and 'UNIVERSITY OF UTAH HEALTH CARE'. A white 'Login' modal is centered over the calendar. The modal has a title 'Login' and two input fields: 'uNID: (e.g. u8675309)' with the value 'u0001111' and a 'Forgot your uNID?' link, and 'Password:' with a masked password '.....' and a 'Forgot your password?' link. A 'LOGIN' button is located at the bottom of the modal. The calendar grid in the background shows dates 7, 14, 21, 28, and 5.

Calendar Sources

November 2016

Week Month Year

SUN MON TUE WED THU FRI SAT

+ Add Source

U THE UNIVERSITY OF UTAH®

UNIVERSITY OF UTAH HEALTH CARE

Login

uNID: (e.g. u8675309)

[Forgot your uNID?](#)

Password:

[Forgot your password?](#)

LOGIN

7

14

21

28

5

Digital Mockup

✕

Calendar Sources

+ Add New Source

University of Utah ▾

- Class 1
 - HW 1
 - Quiz 1
 - Reading 1
- Class 2
 - Assignment 1
 - Assignment 2

◀ ▶ November 2016 Week Month Year

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17 Assignment 1 Due	18	19	20	21
22 HW 1 Due Reading 1 Due	23	24 Assignment 2 Due	25	26	27	28
29	30	1	2	3	4	5

Digital Main Task:

Plan Out an Upcoming Assignment

Digital Mockup



Class 2 Assignment 1

Statistics

This Assignment

Hours Spent	Average
<input type="range"/>	7
Grade	Average
<input type="range"/>	B+

Personal

Hours Spent	Average
<input type="range"/>	6
Grade	Average
<input type="range"/>	B+

Course

Hours Spent	Average
<input type="range"/>	5
Grade	Average
<input type="range"/>	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

Accept Plan

Cancel

Digital Mockup



Class 2 Assignment 1

Statistics

This Assignment

Hours Spent	Average
<input type="range"/>	7
Grade	Average
<input type="range"/>	B+

Personal

Hours Spent	Average
<input type="range"/>	6
Grade	Average
<input type="range"/>	B+

Course

Hours Spent	Average
<input type="range"/>	5
Grade	Average
<input type="range"/>	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

- Low
- Medium
- High

Accept Plan

Cancel

Digital Mockup



Class 2 Assignment 1

Statistics

This Assignment

Hours Spent	Average
	7
Grade	Average
	B+

Personal

Hours Spent	Average
	6
Grade	Average
	B+

Course

Hours Spent	Average
	5
Grade	Average
	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

November 10: 2 pm - 5 pm

November 14: 6 pm - 8 pm

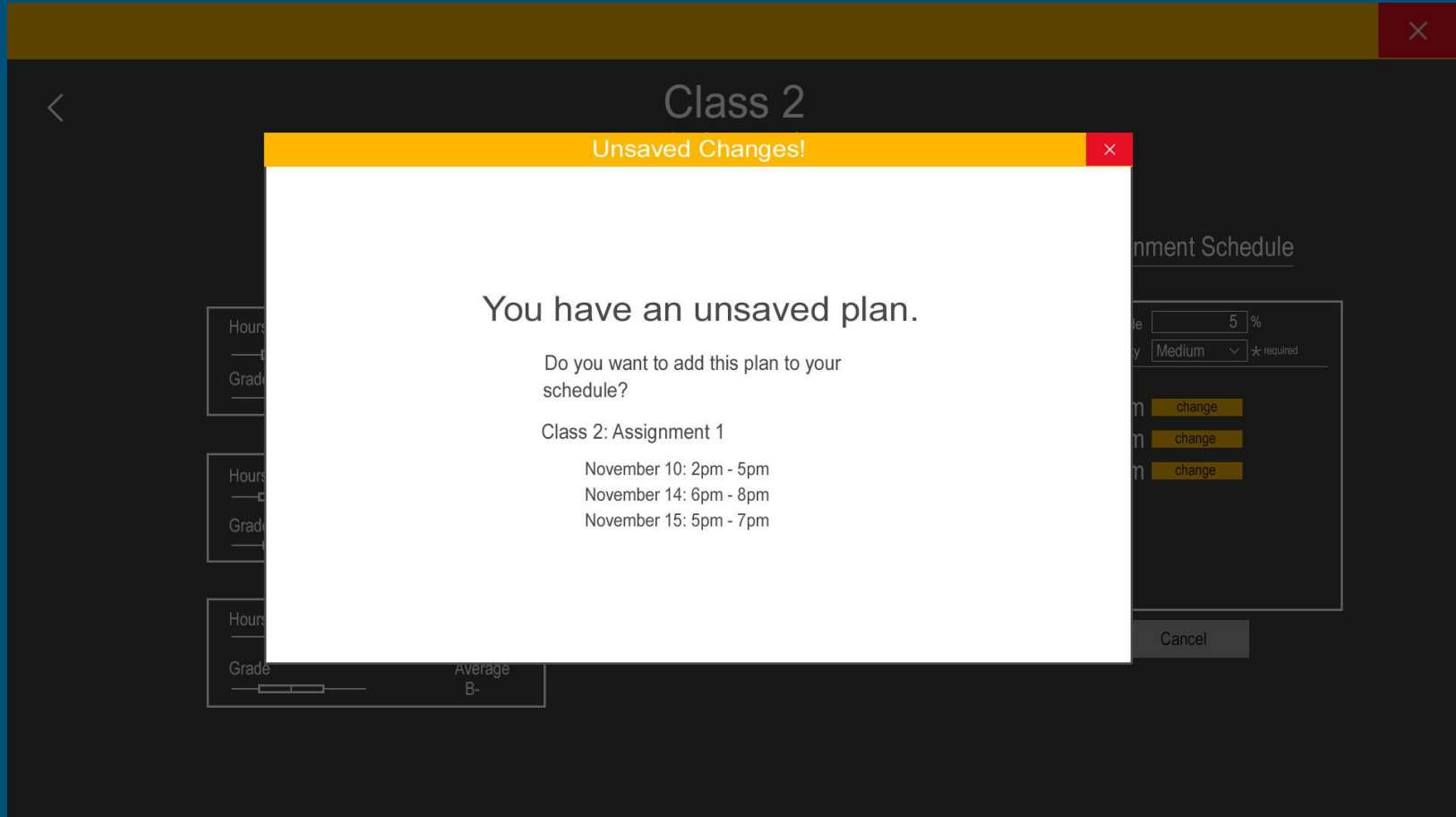
November 15: 5 pm - 7 pm

Total time: 7 hours

Accept Plan

Cancel

Digital Mockup



Digital Mockup

✕

◀▶November 2016

WeekMonthYear

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10 Assignment 1 Plan	11	12	13	14 Assignment 1 Plan
15 Assignment 1 Plan	16	17 Assignment 1 Due	18	19	20	21
22 HW 1 Due Reading 1 Due	23	24 Assignment 2 Due	25	26	27	28
29	30	1	2	3	4	5

Calendar Sources

+ Add New Source

University of Utah▼

- Class 1**
- HW 1Plan
- Quiz 1Plan
- Reading 1Plan
- Class 2**
- Assignment 1Plan
- Assignment 2Plan

Digital Sub Task:

Change a Plan

Digital Mockup



Class 1 Reading 1

Statistics

This Assignment

Hours Spent	Average
<input type="range"/>	7
Grade	Average
<input type="range"/>	B+

Personal

Hours Spent	Average
<input type="range"/>	6
Grade	Average
<input type="range"/>	B+

Course

Hours Spent	Average
<input type="range"/>	5
Grade	Average
<input type="range"/>	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

Accept Plan

Cancel

Digital Mockup



Class 1 Reading 1

Statistics

This Assignment

Hours Spent	Average
<input type="range"/>	7
Grade	Average
<input type="range"/>	B+

Personal

Hours Spent	Average
<input type="range"/>	6
Grade	Average
<input type="range"/>	B+

Course

Hours Spent	Average
<input type="range"/>	5
Grade	Average
<input type="range"/>	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

- Low
- Medium
- High

Accept Plan

Cancel

Digital Mockup



Class 1 Reading 1

Statistics

This Assignment

Hours Spent	Average
<input type="range"/>	7
Grade	Average
<input type="range"/>	B+

Personal

Hours Spent	Average
<input type="range"/>	6
Grade	Average
<input type="range"/>	B+

Course

Hours Spent	Average
<input type="range"/>	5
Grade	Average
<input type="range"/>	B-

Recommended Assignment Schedule

Percentage of grade %
Select a priority * required

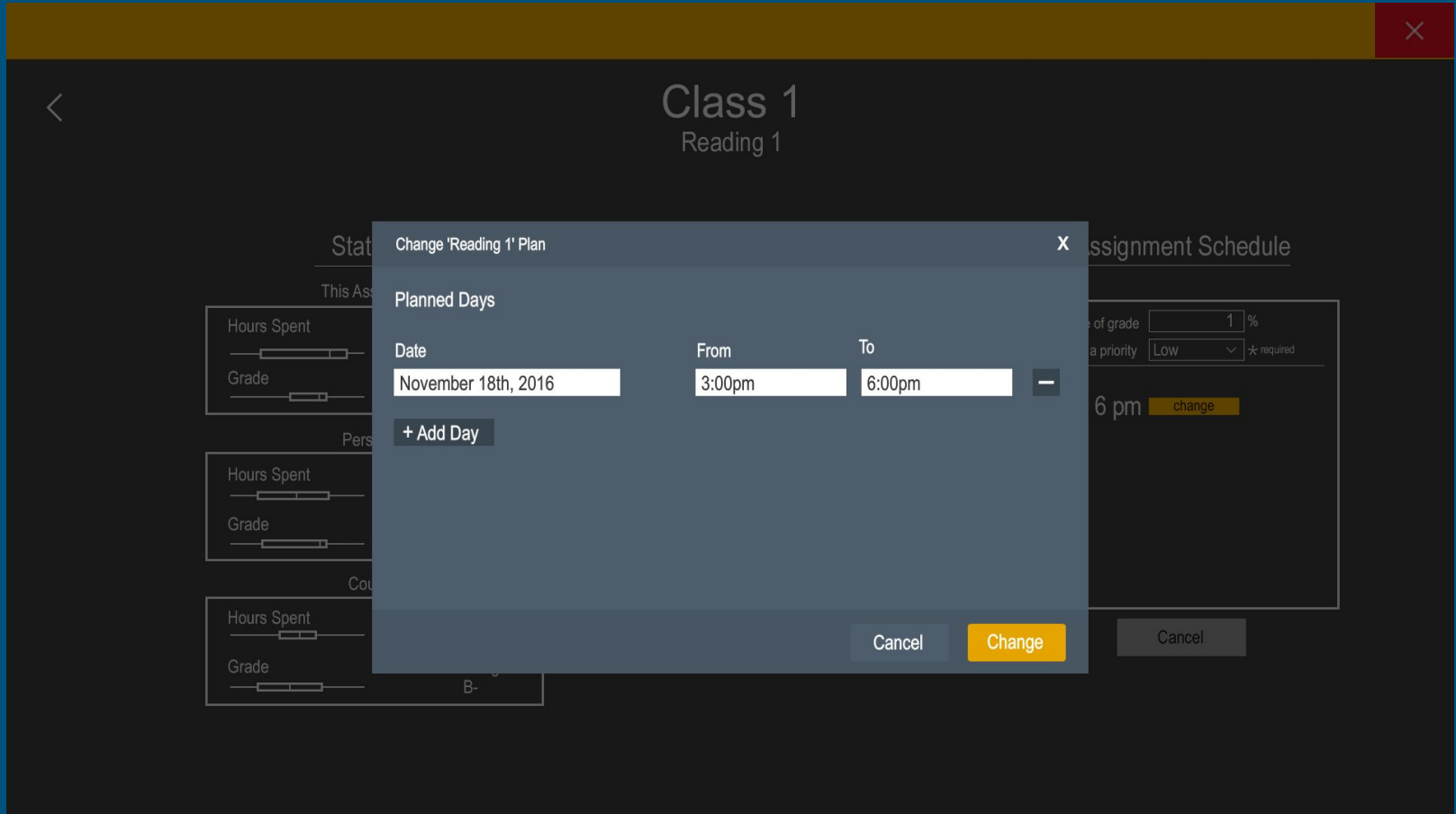
November 21: 4 pm - 6 pm

Total time: 2 hours

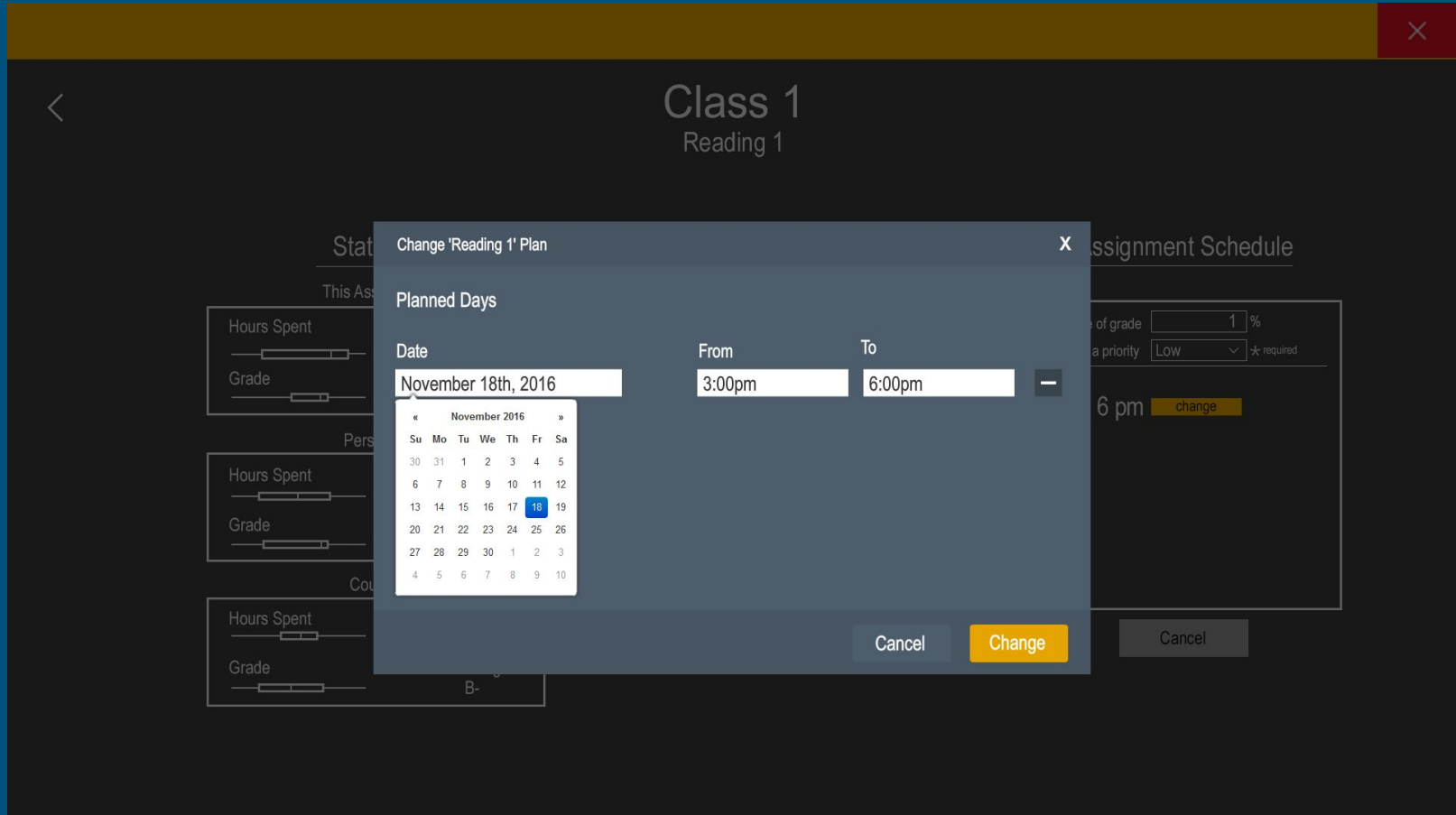
Accept Plan

Cancel

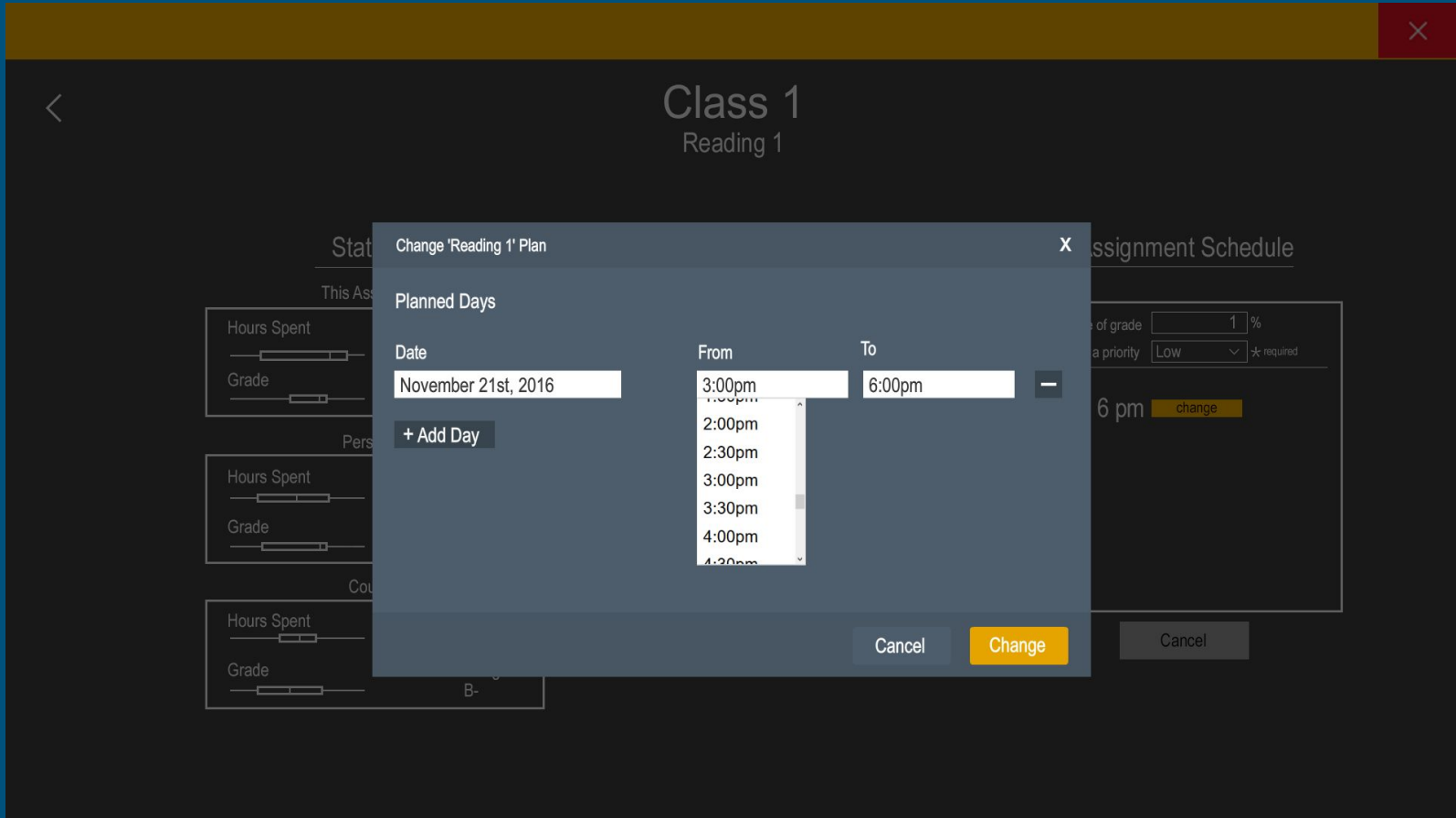
Digital Mockup



Digital Mockup



Digital Mockup



Digital Mockup



Class 1 Reading 1

Statistics

This Assignment

Hours Spent	Average
	7
Grade	Average
	B+

Personal

Hours Spent	Average
	6
Grade	Average
	B+

Course

Hours Spent	Average
	5
Grade	Average
	B-

Recommended Assignment Schedule

Percentage of grade %

Select a priority * required

November 18: 3 pm - 6 pm [change](#)

Total time: 3 hours

Accept Plan

Cancel

Digital Mockup

✕

Calendar Sources

+ Add New Source

University of Utah ▾

Class 1

HW 1 Plan

Quiz 1 Plan

Reading 1 Plan

Class 2

Assignment 1 Plan

Assignment 2 Plan

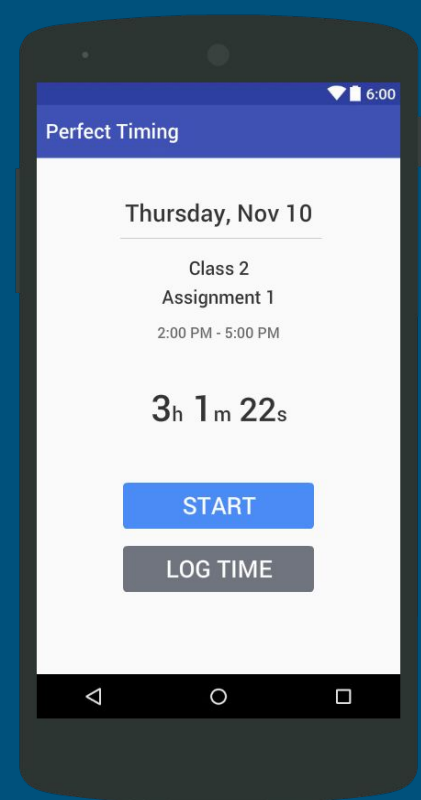
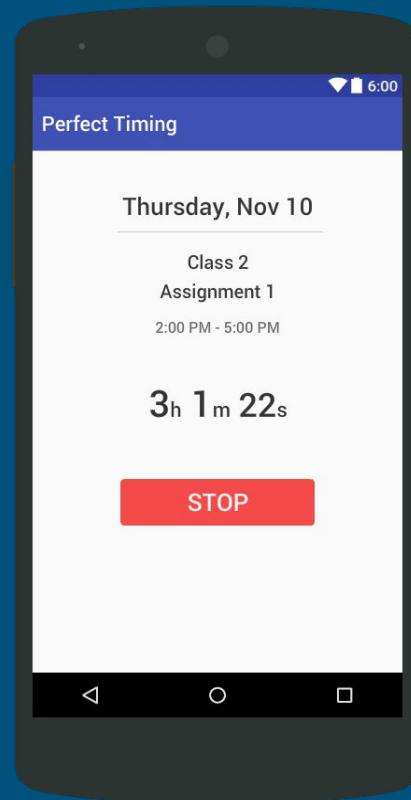
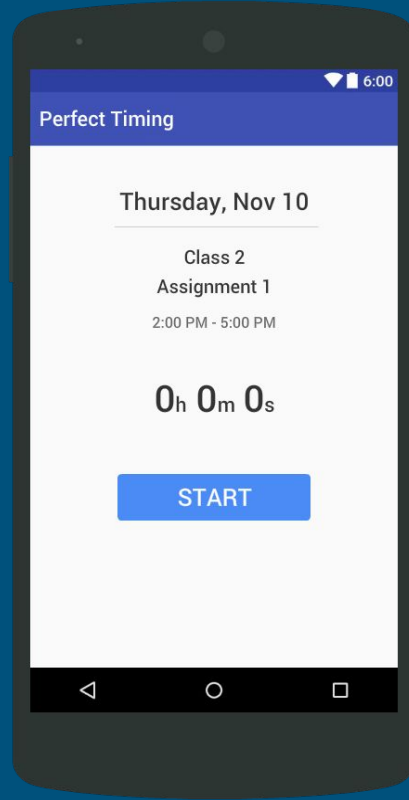
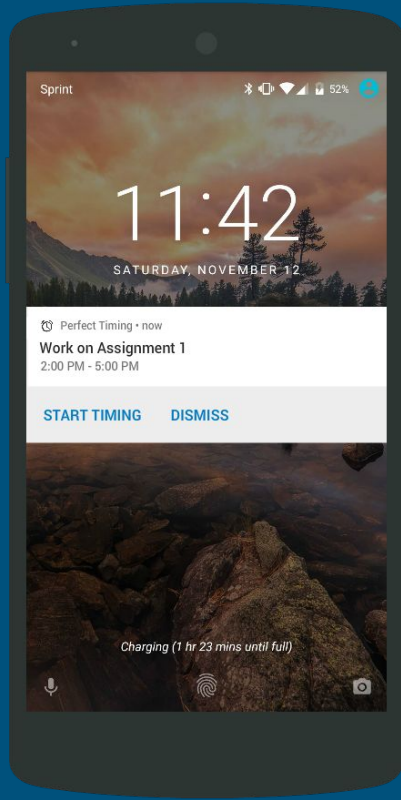
◀ ▶**November 2016**Week Month Year

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10 Assignment 1 Plan	11	12	13	14 Assignment 1 Plan
15 Assignment 1 Plan	16	17 Assignment 1 Due	18	19	20	21 Reading 1 Plan
22 HW 1 Due Reading 1 Due	23	24 Assignment 2 Due	25	26	27	28
29	30	1	2	3	4	5

Digital Additional Task:

Time Yourself with the Mobile App

Digital Mockup



Summary

- Keep participants separated from design process
- Label clarity is not trivial
- Let participants report task completion
- Technologies have specific design patterns

Thank You!

