Sprint 2 Plan

Product Name: CruzCal
Team name: CruzCal Developers
Sprint Completion Date: May 03, 2022
Revision number: 1.1
Revision date: April 24, 2022

Goal

The goal for sprint 2 is the ability to create calendar events from UCSC courses on CruzCal.

User Stories for Release

1. As a student, I want to dynamically add and remove courses from my schedule.
   a. **Tasks**
      i. Expand API to handle requesting subjects by term and courses by term+subject
      ii. Create proxy in nextjs config to connect frontend to backend api
      iii. "Add" button to allow the student to add a new class
      iv. "Trash" button to delete a class (Subject/Class Number)
      v. "Term selection" to determine the current term to query the classes - filter criteria: subject, professor, etc.
      vi. Trash button: possibly using cookies to store user data when removing a class
      vii. state management API for components
2. As a student, I want to see a calendar preview so I can visualize my schedule as I add courses to CruzCal.
   a. **Tasks**
      i. Have classes dynamically show up on calendar preview when term, course subject, and course number have been selected.
         1. Disable (gray out) **Course Number** selection until **Course Subject** is selected
      ii. Show if classes will overlap due to time conflicts (In future, maybe allow user to add overlapping schedules)
3. As a student, I want to generate a calendar file scheduling all of my courses so I don't have to manually create them every quarter.
   a. **Tasks**
      i. Learn calendar format (ics) and how calendar events work
      ii. Learn ics library and make examples generating events/exporting calendars
      iii. Configure middleware to return binary files in Express (for .ics response)
      iv. Create function to convert a course into a data structure for an event
      v. Implement the /calendar endpoint to take in a list of classes and return a .ics file

Stretch Goals
vi. Define Calendar and User table (Lectures only)
vii. Generate Oauth credentials with GCP
viii. Learn Google Calendar API
ix. Implement authentication middleware and store user accounts
x. Test creating calendars and calendar events through Google Calendar API
xi. Implement method to convert courseid+term list into a calendar, given user oauth tokens

Spikes
- Learn how to use an existing calendar library (ics) to create and manage events
- Learn external calendar UI library or design basic calendar preview component

Team Roles

- Tanmay Mittal: **Product Owner**, backend + frontend developer
- Pablo Gaeta: **SCRUM Master**, backend developer
- Mario Reyes: backend developer
- Kitana Toft: frontend developer
- Andrew Lim: frontend developer

SCRUM Times
Weekly Meetings
- **Tuesday**: **10:30 - 11:30 am** meet on campus (or virtual) at LEEPs lab room 416
- **Thursday**: **5:30 - 6:15 pm** with TA (remote through Zoom)
- **Friday**: **9:05 - 9:20am** in-person meeting after class (weekly)
- **Sunday**: **4:00pm - 4:15 pm** online check in for progress report (virtual)

Check in Agenda
1. What progress has been made?
2. What complications are we facing?
3. How should we move forward with these facts?
4. What are the next steps to work on the current or following task?

How to Run Each Meeting
- 2 minute intervals for people to express & summarize their ideas or findings
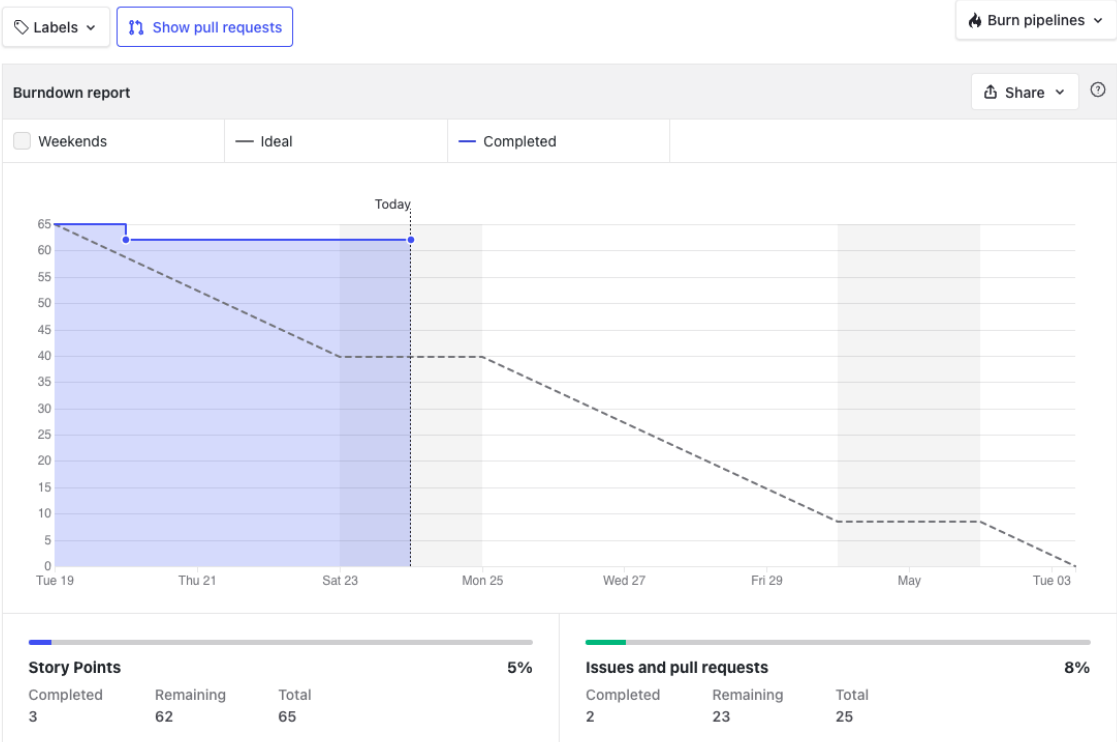- Developers should meet & determine how to split up the given tasks based on user stories per sprint

Initial Task Assignment

Sprint 2

User stories	Tasks	Name	Priority	Estimated Time	Start date	End date	Notes
As a student, I want to generate a calendar file scheduling all of my courses so I don't have to manually create them every quarter	Learn calendar format (ics) and how calendar events work	Backend	High	5	4/19/2022		
	Learn ics library and make examples generating events/exporting calendars		High	3			
	Configure middleware to return binary files in Express (for .ics response)	Pablo	High	1	4/19/2022		
	Create function to convert a course into a data structure for an event		High	3	4/19/2022		Explain?
	Implement the /calendar endpoint to take in a list of classes and return a .ics file	Mario	High	2	4/19/2022		
	Define Calendar and User table (Lectures only)		Low	2			
As a student, I want to dynamically add and remove courses from my schedule	Expand API to handle requesting subjects by term and courses by term+subject	Pablo	Medium	3			We would probably have to use user
	Create proxy in nextjs config to connect frontend to backend api			2			
	"Add" button to allow the student to add a new class	Andrew	High	5			
	"Trash" button to delete a class (Subject/Class Number)	Andrew	High	3			
	"Term selection" to determine the current term to query the classes - filter criteria: subject, professor, etc.	Kitana	High	5			Todo for AL
							Expand task details
	Trash button: possibly using cookies to store user data when removing a class		Medium				
	state managment API for components	frontend					
As a student, I want to see a calendar preview so I can visualize my schedule as I add courses to CruzCal	Have classes dynamically show up on calendar preview when term, course subject, and course number have been selected. (add class to calendar preview) (expand the details for this task)		High	8			
	Show if classes will overlap due to time conflicts (need to determine the library module first)						
	Notify user if adding a class has a time conflict		Medium	2			
	(In future, maybe allow user to add overlpaping schedules)						
	Generate Oauth credentials with GCP			0.5			
	Learn Google Calendar API			2			

Burndown Chart

Sprint: Apr 19 - May 3, 2022

Start **Apr 19, 2022**   Due by **May 3, 2022**

Story Points — 5% — Completed 3, Remaining 62, Total 65

Issues and pull requests — 8% — Completed 2, Remaining 23, Total 25

SCRUM Board

New Issues	Product Backlog	In Progress	Done	Review/QA
10 Issues / 28 Points	10 Issues / 20 Points	5 Issues / 14 Points	0 Issues / 0 Points	0 Issues / 0 Points

New Issues

cruzcal #61
Create proxy to connect frontend to backend api
⚡ Sprint: Apr 19 - May 3, 2022
2 backend frontend

cruzcal #62
possibly using cookies to store user session creating a calendar
backend frontend

cruzcal #63
state managment API for components
⚡ Sprint: Apr 19 - May 3, 2022
frontend

cruzcal #64
Notify user if adding a class has a time conflict
⚡ Sprint: Apr 19 - May 3, 2022
2 frontend

cruzcal #65
Implement calendar preview
⚡ Sprint: Apr 19 - May 3, 2022
8 frontend

cruzcal #66

Product Backlog

cruzcal #59
Learn ics library and make examples generating events/exporting calendars
⚡ Sprint: Apr 19 - May 3, 2022
3 backend

cruzcal #49
Implement the /calendar endpoint to take in a list of classes and return a .ics file
⚡ Sprint: Apr 19 - May 3, 2022
2 backend

cruzcal #46
Learn calendar format (ics) and how calendar events work
⚡ Sprint: Apr 19 - May 3, 2022
5 backend

cruzcal #48
Create function to convert a course into a data structure for an event
⚡ Sprint: Apr 19 - May 3, 2022
3 backend

cruzcal #58
Research Calendar Preview Library

In Progress

cruzcal #17
Endpoint testing
⚡ Sprint: Apr 5 - Apr 19, 2022
Sprint: Apr 19 - May 3, 2022
backend

cruzcal #47
Configure middleware to return binary files in Express (for .ics response)
⚡ Sprint: Apr 19 - May 3, 2022
1 backend

cruzcal #52
Expand API to handle requesting subjects by term and courses by term+subject
⚡ Sprint: Apr 19 - May 3, 2022
3 backend

cruzcal #57
"Term selection" to determine the current term to query the classes
⚡ Sprint: Apr 19 - May 3, 2022
5 frontend

cruzcal #56
Add Class Button
⚡ Sprint: Apr 5 - Apr 19, 2022
Sprint: Apr 19 - May 3, 2022

Done

Done

Issues tested and ready to be deployed to production.

Review/QA

Review/QA

Issues open to the team testing. Code comp feedbac