

Lecture 10: January 14

Spring Project Planning

Agenda

- **Fall Semester Feedback**
- Spring Semester
 - What's new
 - Spring Schedule
 - Grading Criteria
 - Sprint Expectations
 - Setting up Spring Sprints
- Upcoming Deadlines
- Project Goals
- Github Account Verification

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Fall Semester Feedback

- Really nice job overall!
- Clear improvements in presentation skills
- Majority of projects are on track
- Majority of teams using PRs, some doing code reviews

Individual feedback will be provided during instructor meetings

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What's New?

- Student feedback from fall semester
 - Not enough time to focus on projects
 - Grading is unclear & feedback isn't frequent enough and/or actionable

What's New?

- Student feedback from fall semester
 - Not enough time to focus on projects
 - Grading is unclear & feedback isn't frequent enough and/or actionable
- Spring Changes
 - Less labs, more office hours*
 - Less presentations, with a focus on presentation skills instead of content
 - Less tangential deliverables
 - Sprint rubric on course website
 - Greater focus on setting sprint goals

Spring Schedule

<https://gw-cs-sd-25-26.github.io/>

Month	Expected Status	Monthly Focus	Deliverables
September	N/A	<ul style="list-style-type: none">- Figure out teams- Brainstorm projects	<ul style="list-style-type: none">- Create teams- resume
Mid-September	<ul style="list-style-type: none">- Teams selected- Handful of project ideas	<ul style="list-style-type: none">- Final project selection- Begin meeting w/ mentors	<ul style="list-style-type: none">- Project proposal- Hardware/software request- Writing: Team Charter
October	<ul style="list-style-type: none">- Project selected & approved	<ul style="list-style-type: none">- Begin technical investigations (services, apis, language, etc)- Flesh out project functionality & requirements- Coding should start (scaffolding, ci/cd, prototyping)	<ul style="list-style-type: none">- Writing: Technical summary- Presentation: Elevator pitch
November	<ul style="list-style-type: none">- Main technologies selected- project is well-defined- Everyone is actively coding	<ul style="list-style-type: none">- Answer all questions needed to complete TDD- Lots of coding for alpha review	<ul style="list-style-type: none">- Writing: PRD/TDD- Presentation: Project Design
December	<ul style="list-style-type: none">- Code complete for alpha review	<ul style="list-style-type: none">- more coding for demo 2- Formalize design discussions into proper TDD	<ul style="list-style-type: none">- Alpha review- Presentation: Alpha prototype- Writing: revised PRD/TDD
January	<ul style="list-style-type: none">- Continued focus on project development	<ul style="list-style-type: none">- continued development for demo 2- focus on proper testing & integration	<ul style="list-style-type: none">- demo 2
February	<ul style="list-style-type: none">- Code complete for demo 2	<ul style="list-style-type: none">- Refine code from a prototype into a fleshed out project -- testing, integration, polishing- continued development for prelim prototype (get as close to finished as you can here)	<ul style="list-style-type: none">- Presentation: skill refinement- demo 3
March	<ul style="list-style-type: none">- Code complete for demo 3	<ul style="list-style-type: none">- final code polishing to wrap up project- complete any necessary integration work- add extra features if possible	<ul style="list-style-type: none">- demo 4
April	<ul style="list-style-type: none">- Code 99% complete for final demo	<ul style="list-style-type: none">- finishing touches for final project submission- ideally you are done with coding by this point	<ul style="list-style-type: none">- R&D Showcase- Final Presentation & Demo
May			<ul style="list-style-type: none">- Final package due

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Grading Criteria

- Presentations **10%**
 - Presentation 4: Presentation Skills **5%**
 - Practice final presentation **5%**
- Sprint Progress & Demos **39%**
 - [3x] Demos **21%**
 - [3x] Sprints **18%**
 - Weekly updates
 - Sprint boards
 - Code commits & PR reviews
- Final Project Demo / Presentation **35%**
 - Final Presentation **10%**
 - Final Demo **25%**
- Final Package **10%**
- Participation **6%**
 - Attendance
 - Team surveys

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Sprint Schedule

Last Semester Sprints

September Sprint

October Sprint

November / December Sprint

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Spring Semester Sprints

January Sprint (demo 2)

February Sprint (demo 3)

March Sprint (demo 4)

April Sprint* (2 weeks!)

Sprint Schedule

Sprint Components

- 1. **Define Sprint Goals (instructors)**
- 2. **Sprint planning (mentors)**
- 3. **Execution (code reviews)**
- 4. **Demo (individual & team)**

Spring Semester Sprints

January Sprint (demo 2)

February Sprint (demo 3)

March Sprint (demo 4)

April Sprint* (2 weeks!)

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Expectations: Instructor Meetings

- **In the fall:** status updates, somewhat redundant with mentor meetings
- **In the spring:** focus on high level planning or technical details
 - Refine sprint goals the week before each sprint
 - Come with concrete questions

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Expectations: Mentor Meetings

- **In the fall:** mentors came up with the agenda and led the meeting
- **In the spring:** students should come up with the agenda and lead the meeting
 - Sprint planning
 - PR reviews
 - Lead with weekly updates
 - Come with concrete questions

Expectations: Code

- All students should contribute code during each sprint
- Code should be pushed to feature branches and PRs to main
- **We will only evaluate code merged to main**
 - We will not look at code in feature branches
 - You will not receive full credit for code committed directly to main
- We use commit history for grading, so...
 - **The author of the PR should be the one to merge it**
 - **A single branch should contain only a single person's commits – squash-merge assigns all code to the PR merger**
 - **If your GitHub account isn't associated with your commits, you will not get credit**
- Link PRs to tickets

Expectations: PR Reviews

- For the January & March sprints, we require **at least one** peer code review
 - Each team member must **author** and **review (leave comments)** on one PR before the end of the sprint
 - PRs should have descriptions describing the requested change
- For the February sprint, we require **at least one** mentor code review
 - During your weekly mentor meeting, the team should choose 1 PR to review with your mentor as a group. The mentor should leave at least one comment on the PR so we know they reviewed it with you.

Expectations: Demos

- In your instructor meeting at the end of the sprint, you'll demo what you accomplished and if you hit your goals
- We expect to see code from all students
- Demo grades are given individually, but the format of the demos alternate between individual & as a group
 - January: individual
 - February: group
 - March: individual
 - Final demo: group

Expectations: Sprint Board

- Create tickets to capture project-specific work.
 - Create project-specific epics to organize work
- Tickets should include:
 - Descriptions + definition of done
 - Assignees
 - Due dates
 - Sprint
 - Status
 - Linked PR (when there is code)
- While it is ok to have some tickets assigned to multiple team members, the majority of tickets should be assigned to one person
- **All tickets should be completed, moved to next sprint, or marked as “won’t do” by the end of the sprint**

Expectations: Sprint Board

Table View September Sprint October Sprint November/December January/February Sprint + New view

sprint:"November / December"

Title	Status	Sprint	Epic	Due Date
> Presentations 2				
> Writings 2				
> Design 2				
Coding 7				
7 Seed database with sample data #50		November / December		Nov 13, 2024
8 API: get data points for triangulation #63		November / December		Nov 24, 2024
9 Expand API to support full CRUD #65		November / December		Dec 1, 2024
10 API Documentation #71		November / December		Dec 14, 2024
11 Debug Frontend/Smooth implementation of Chartjs #49		November / December		
12 Bluetooth LE advertisement sniffing on Pi #51		November / December		
13 Control Page Implementation #74		November / December		
+ Add item				
Testing 1				
14 Formal Experiment #59		November / December		
+ Add item				
Status Update 6				
15 Status Update - Week of 11/3 #47		November / December		Nov 6, 2024
16 Status Update - Week of 11/10 #56		November / December		Nov 13, 2024
17 Status Update - Week of 11/17 #61		November / December		Nov 20, 2024
18 Status Update - Week of 11/24 #66		November / December		Nov 27, 2024
19 Status Update - Week of 12/1 #75		November / December		Dec 4, 2024
20 Status Update - Week of 12/8 #82		November / December		Dec 11, 2024
+ Add item				

Expand API to support full CRUD #65

#70 GW-CS-SD-24-25/ Private

opened on Nov 23, 2024 · edited by

Assignees

Labels

No labels

Projects

Status

Sprint November / December · Nov 3 - Dec 20 · Coding

Epic

Due Date Dec 1, 2024

Milestone

No milestone

Development

Notifications Customize

You're not receiving notifications from this thread.

Participants

→ Transfer issue

Lock conversation

Pin issue

Delete issue

Endpoint	Method	Parameters (type)	Response
/device_history(add a new sensor reading)	POST	device_mac (string) sensor_id (int) strength (float) timestamp (datetime) Note: can POST an array of these parameters to insert multiple at the same time	HTTP status code 200 if successful, appropriate code if not (with error message)
/layouts	GET	parent? (int) id? (int)	List of layouts, optionally filtered by parent ID, or specific layout
/layouts(to update a specific layout's details)	POST	name? (string) parent? (int) scale? (float) map? (string) lat? (float) long? (float)	HTTP status code 200 if successful, appropriate code if not (with error message)
/layouts	POST	name (string) parent? (int) scale? (float) map? (string) lat? (float) long? (float)	HTTP status code 200 if successful, appropriate code if not (with error message)
/layouts/(id)/devices	GET	id (int)	List of devices and locations currently seen in a layout (using triangulation)
/devices	GET	mac? (string)	List of identified devices with details, or specific device
/devices	POST	mac (string) name? (string) hide? (boolean)	HTTP status code 200 if successful, appropriate code if not (with error message)

Expectations: Weekly Status Updates

- Create a new status update ticket for each week
 - Title should be **Status Update - Week of MM/YY** with the date matching the Monday date on the course website
 - Epic should be **status update**
 - Due date should be the following Sunday
- Move ticket from TODO to DONE as week progresses
- Students should post weekly status updates covering:
 - What they completed (can link to other tickets)
 - What they are blocked by
 - What they are currently working on
 - **Each student must leave their own comment (do not update the description) before the due date to receive full credit**

Recommendation: Create all status update tickets at the beginning of the sprint

Expectations: Weekly Status Updates

Status Update - Week of 11/3 #47

Closed GW-CS-SD-24-25 Private

opened on Nov 2, 2024

No description provided.

added this to Board on Oct 28, 2024

converted this from a draft issue on Nov 2, 2024

on Nov 4, 2024

- Completed:
 - Finished out October sprint and merged [Static Bubble Chart - Prototype #43](#) to main
 - Planned November sprint
- Blocked: None
- Currently working on:
 - [Presentation 2 #42 Prep](#)
 - [Demo 0 Prep](#)
 - [Debug Frontend/Smooth implementation of Chart.js #49](#)

on Nov 4, 2024

- Completed:
 - Finished October sprint and merged in [WiFi probe request capture #45](#)
 - Planned my November/December sprint tasks
 - [Research Bluetooth-on-network WiFi sniffing #44](#) (specifically, the feasibility of using Bluetooth LE to track devices)
 - [Seed database with sample data #50](#) ([Mock Data Generation #53](#) opened)
- Blocked:
 - None
- Currently working on:
 - [Presentation 2 #42](#)
 - Demo 0 prep

on Nov 5, 2024

- completed: added data display toggle button to front-end prototype, added rough login page to prototype as well
- blocked: none
- currently working on: [Presentation 2 #42](#), want to create a plan for user workflow and visual plans for front-end appearance

Assignees: No one - Assign yourself

Labels: No labels

Projects: Status Done November / December Nov 3 - Dec 20

Sprint: November / December Nov 3 - Dec 20

Epic: Status Update

Due Date: Nov 6, 2024

Milestone: No milestone

Development: Create a branch for this issue or link a pull request.

Notifications: [Subscribe](#) Customize

You're not receiving notifications from this thread.

Participants: 

→ Transfer issue
🔒 Lock conversation
📌 Pin issue
✖ Delete issue

Sprint Grading Rubric

- **Sprint Boards (2 pts)**
 - **Full credit:**
 - All tickets have correct metadata (epics, due date, sprint assignee) & moved to done/won't do
 - individual has sufficient # of individual, project-specific tickets assigned (> 3)
 - Tickets have clear descriptions w/ acceptance criteria
 - **-0.1 - 0.25pt** if tickets left in progress / todo, missing metadata (epics, assignees, etc)
 - **-0.25 - 0.5pt** if tickets don't include clear descriptions & acceptance criteria
 - **-0.5 - 1pt** if not enough tickets in sprint
 - **0pt** if no tickets / not enough evidence of sprint progress

Sprint Grading Rubric

- **Weekly Updates (1 pt)**
 - Total point value divided by number of weeks (factoring out holidays)
 - **½ credit** if weekly update late
 - **½ credit** if format is incorrect (ticket metadata incorrect, comments posted as description)
 - **¼ credit** if weekly update late AND format is incorrect
 - **0 - ½ credit** if weekly update content insufficient

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Sprint Grading Rubric

- **Github (2 pts)**
 - Sufficient code merged to main, PRs used w/ clear descriptions
 - **-0.1 - 0.25 pt** if PRs missing descriptions
 - **-0.25 - 0.5 pt** if minimal/no PRs used, but code pushed to main
 - **-1 pt** if minimal code written / only documentation committed

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Sprint Grading Rubric

- **Peer PR Review (1 pt)**
 - +0.5 pt for authoring a PR (no partial credit)
 - +0.5 pt for reviewing a PR (must include comments & feedback, not just an approval)
 - -0.25 if review is late
- **Mentor PR Review (1 pt)**
 - +1 pt for mentor reviewing a PR (must leave at least 1 comment)
 - No partial credit

Expectations: Passing the course

- **We really want you to graduate! But our job is also to act as gate keepers that ensure a GW CS degree is a meaningful certification.**
 - Evidence that you can: build a significant software project, work on a team, follow software engineering best practices, solve problems that go beyond simple "boot camp" programming
- Most students pass senior design, but it is not a guarantee
 - If we have concerns about your progress, we will try to discuss with you as early as we can, but sometimes we cannot catch things (especially if you are not being honest about your progress)
 - If we realize in April that your contribution to the project is trivial and not representative of two semester of work, **you will fail the course.**
 - Help yourself and teammates by alerting us of issues soon!

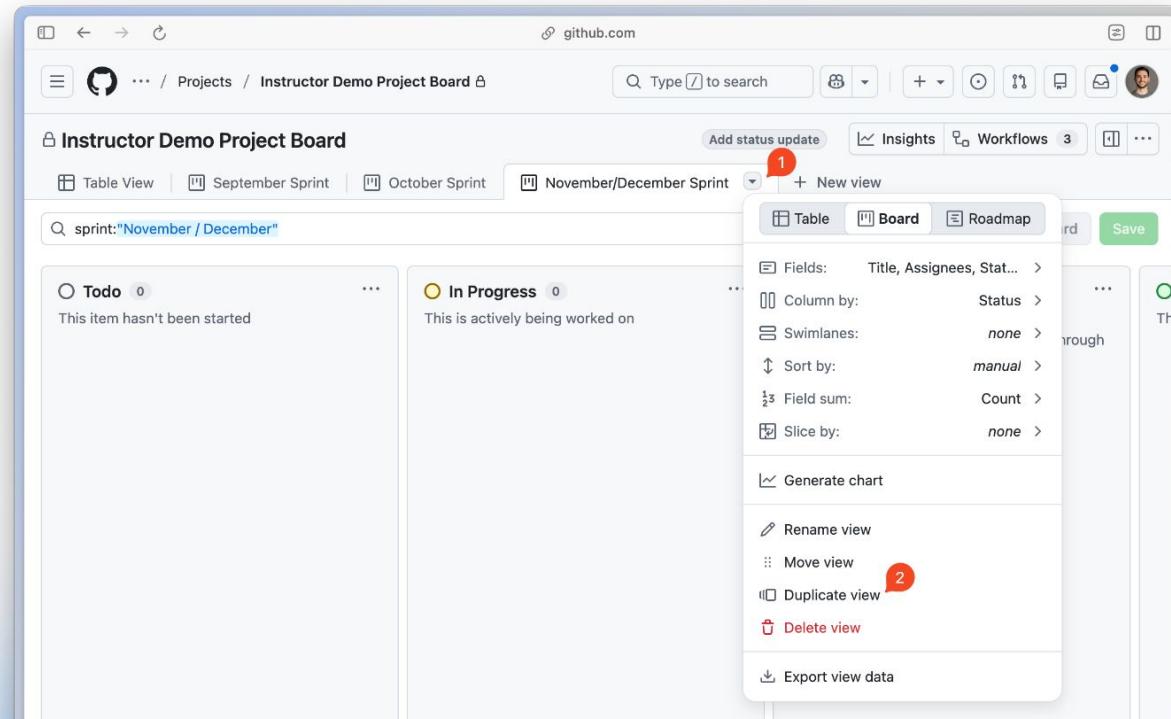
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Exercise: Prepare for upcoming sprints

1. Create Spring Semester Sprint Boards



The screenshot shows a GitHub Project Board titled "Instructor Demo Project Board". The board is currently in "Board" view, displaying two columns: "Todo" and "In Progress". A search bar at the top right contains the query "sprint:'November / December'". The "November/December Sprint" tab is selected. A context menu is open on the right side of the board, with the following items visible:

- Add status update
- 1 Insights
- Workflows 3
- + New view
- Table
- Board (selected)
- Roadmap
- Save
- Fields: Title, Assignees, Status...
- Column by: Status
- Swimlanes: none
- Sort by: manual
- Field sum: Count
- Slice by: none
- 2 Generate chart
- Rename view
- Move view
- 2 Duplicate view
- Delete view
- Export view data

Callout 1 points to the "New view" option in the context menu. Callout 2 points to the "Duplicate view" option, which is highlighted with a red box.

Exercise: Prepare for upcoming sprints

1. Create Spring Semester Sprint Boards

1

2

3

Instructor Demo Project Board

Table View | September Sprint | October Sprint | November/December | January | + New view

Fields: Title, Assignees, Status... >

Column by: Status >

Swimlanes: none >

PR: Sort by: manual >

Field sum: Count >

Slice by: none >

Generate chart

Rename view

Move view

Save changes to new view

Delete view

Export view data

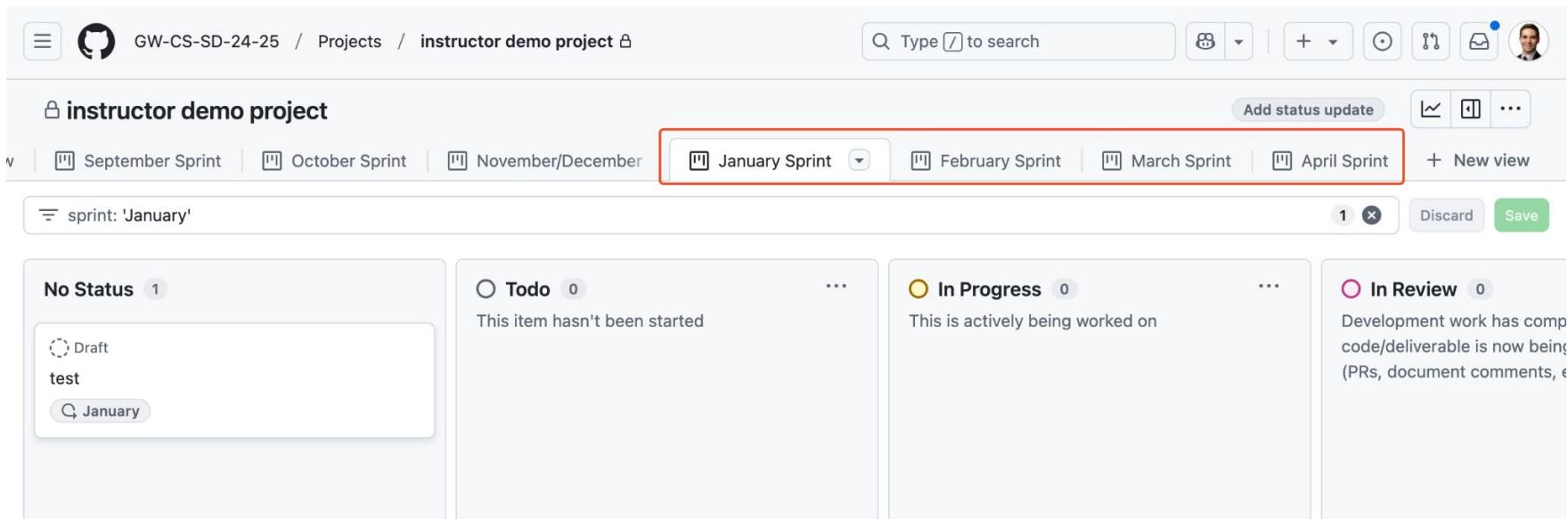
Discard Save

Done 0

This has been completed

Exercise: Prepare for upcoming sprints

1. Create Spring Semester Sprint Boards



GW-CS-SD-24-25 / Projects / **instructor demo project** ⋮

Type to search ⋮

Add status update ⋮

instructor demo project

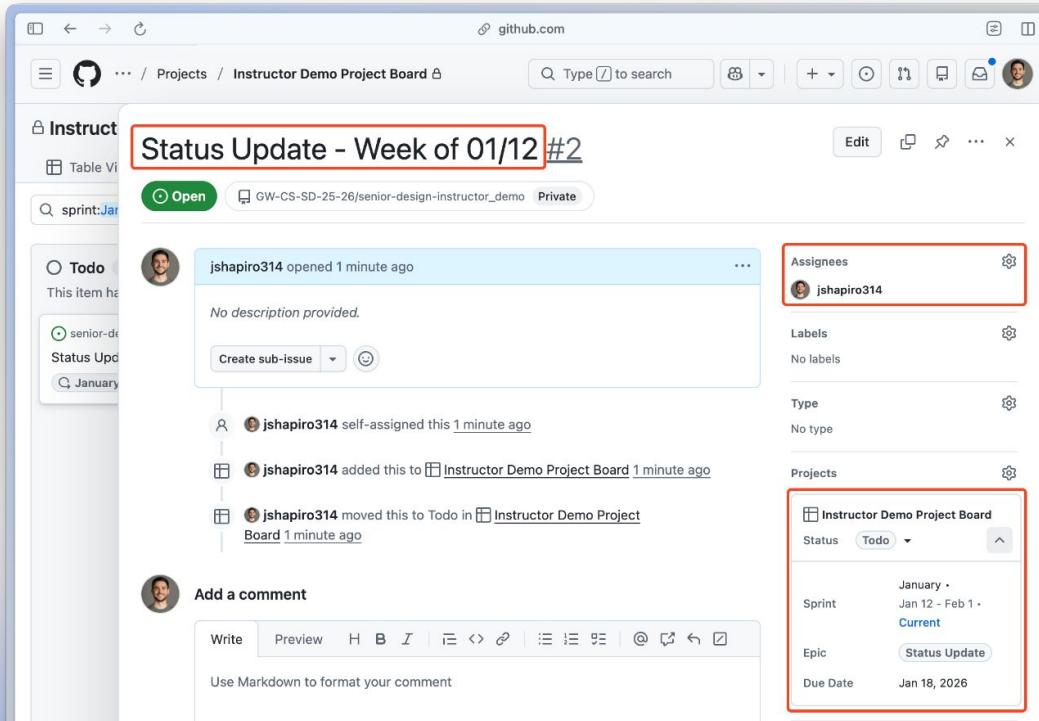
September Sprint | October Sprint | November/December | **January Sprint** | February Sprint | March Sprint | April Sprint | **+ New view**

sprint: 'January' 1 X Discard Save

No Status	Todo	In Progress	In Review
<p>Draft</p> <p>test</p> <p><input type="text"/> January</p>	<p>0</p> <p>This item hasn't been started</p>	<p>0</p> <p>This is actively being worked on</p>	<p>0</p> <p>Development work has comp code/deliverable is now being (PRs, document comments, etc)</p>

Exercise: Prepare for upcoming sprints

2. Create weekly status update ticket(s)



The screenshot shows a GitHub issue page for a project titled "Instructor Demo Project Board". The issue is titled "Status Update - Week of 01/12 #2" and is marked as "Open". The "Assignees" field is highlighted with a red box and contains the user "jshapiro314". The "Projects" field is also highlighted with a red box and shows the project "Instructor Demo Project Board" with a status of "Todo". The issue details show that "jshapiro314" opened the issue 1 minute ago, self-assigned it, added it to the project board, and moved it to the "Todo" column. The issue is currently in the "Sprint" "Jan 12 - Feb 1" and is an "Epic" titled "Status Update". The due date is set for "Jan 18, 2026".

Status Update - Week of 01/12 #2

Assignees
jshapiro314

Projects
Instructor Demo Project Board

Sprint
Jan 12 - Feb 1
Current

Epic
Status Update

Due Date
Jan 18, 2026

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For Next Week

Weekly Focus

- Write code for demo 2
- Peer PR reviews

Mentor Meetings

- [Team]: Sprint planning for January

Deadlines

- [Team]: Peer PR reviews **(2/2)**
- [Team]: End of January Sprint **(2/2)**
- [Individual]: Demo 2 **(week of 2/3)**

Reminders

- Don't forget to post weekly updates, including for this week!

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- **Github Account Verification**

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Defining Sprint Goals

1. **As a team, come up with sprint goals between now and the final demo (April)**
2. **List these goals in your github readme**

```
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## Sprint Goals

### January Sprint
- Team goal: Generate walking directions in the UI using google
  maps
- Person 1: Update UI to render google maps route & integrate
  w/ backend api
- Person 2: Implement backend api to call out to google api &
  return route in appropriate schema|
```

3. **Review goals with instructor before leaving lab**
4. **Revisit & update these goals at the beginning of each sprint**