



# SLACKPOINT

## GAMIFY YOUR WORK

SlackPoint is a Slack integration that gamifies task management. Users create, assign, and track tasks, view pending and completed tasks, and compete on a leaderboard.

### CURRENT FEATURES:

#### Reminder Notification

Reminder: Do Halloween task!  
Task ID: >SP-9

This is your scheduled reminder. Stay on top of your tasks!

@jacksontest is requesting help with:  
Task SP-1. Assigned to @jacksontest.

Slackpoint App APP 12:59 PM  
@Jackson is requesting help with:  
Task SP-4. Assigned to @Jackson.

Slackpoint App APP 1:13 PM  
@Jackson is requesting help with:  
Task SP-9. Assigned to @Jackson.

Daily Standup Report for @Jackson

Recently completed tasks:  
| SP-10 (2 SlackPoints) DUE BY NOV

Tasks due soon:  
| SP-8 (3 SlackPoints) DEMO TASK FI

Tasks past due:  
| SP-1 (1 SlackPoints) rtyhrttyrty (Dea  
| SP-2 (1 SlackPoints) rtyhrttyrty (Dea  
| SP-9 (5 SlackPoints) DUE BY HALLC

#### Slackpoint App

Messages About

Slackpoint App  
You added Slackpoint App to this workspace.

Configuration

#### Real-time notifications:

Stay in the loop with instant updates when tasks are assigned or completed- never miss a beat. Get reminders about upcoming task deadlines!

#### Enhanced team coordination:

Effortlessly view pending and completed tasks, track progress, and keep your team aligned for maximum productivity- so everyone can stay accountable. Need help? Just request help from another teammate.

#### Daily standup notifications:

Customizable notifications every day at a specified time with each teammates' tasks that are recently completed, due soon, and past due to help speed up daily standup meetings for the team.

#### Seamless integration:

Experience true convenience with seamless integration that works directly within Slack- no need to leave the app!

### NEW MILESTONES:

#### TEAM COLLABORATION AND TASK MANAGEMENT

- Enable teammates to reassign tasks as needed, promoting smooth workload distribution and empowering users to shift task ownership with ease. Integrate the new task reassignment functionality directly into Slackpoints for immediate access and flexibility. Documentation will include step-by-step instructions on utilizing this feature to keep task flow efficient and adaptable.



Slackpoint App APP 2:49 PM

"Congratulations, your task is completed now!"

#### CATEGORIZED TASKS AND STREAMLINED TO-DO LISTS

- Implement a categorization feature that allows users to assign categories to tasks, making it easy to focus on specific groups. Coupled with a robust filtering system, users will be able to sort tasks by category to avoid overlooking critical items.



Slackpoint App APP 2:51 PM

1. @Jackson has 7 points!

#### TRACK TEAM PERFORMANCE WITH USER STATISTICS

- Total Tasks Completed: Track the number of tasks each user has completed to assess productivity.
- Record of Fastest Completion: Highlight the user's fastest task completion time, motivating efficiency and healthy competition.
- Completion Rate: Display the percentage of tasks each user has completed versus the total assigned, helping individuals and teams monitor progress.

Only visible to you



Slackpoint App APP 4:03 PM

You requested help for Task SP-1. Teammates have been notified.

#### SUPERCHARGED SLACK WORKFLOW INTEGRATION

- Build custom Slack workflow steps to integrate SlackPoint features like task creation and updates. Offer pre-built templates for easy team adoption. We'll enhance our API and update documentation to support these new integrations.

Only visible to you



Slackpoint App APP 3:26 PM

Great! Your task SP-9 was updated successfully.

Only visible to you

Task #9 has been assigned to you by Jackson

### FUTURE IMPROVEMENTS:

The goal is to enhance the current CI pipeline by integrating Docker and Kubernetes to create a robust CI/CD pipeline. This pipeline will automate the process of building, testing, and deploying the Flask application to Google Cloud Platform (GCP).

- Dockerize the Flask Application:  
Create a Dockerfile to containerize the Flask application. Ensure the Docker image includes all necessary dependencies and configurations.
- Set Up Kubernetes Configuration:  
Create Kubernetes deployment and service YAML files to define how the application should be deployed and exposed in the GCP Kubernetes Engine (GKE).
- Integrate with CI/CD Tools:  
Use a CI/CD tool to automate the build, test, and deployment process. Configure the pipeline to: Build the Docker image. Push the Docker image to a container registry (e.g., Google Container Registry). Deploy the application to GKE using the Kubernetes configuration files.
- Deploy to GCP:  
Set up a GKE cluster on GCP. Ensure the CI/CD pipeline has the necessary permissions to interact with GCP services.



79 QUALITY Test Cases!



<https://go.ncsu.edu/slackpoint>

## **REPO LINK:**

**v2:**

**<https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint>**

**v3:**

**<https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/tree/develop>**

Notes	Self Eval	Evidence
Workload is spread over the whole team (one team member is often Xtimes more productive than the others... but nevertheless, here is a track record that everyone is contributing a lot)		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/commits/develop/">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/commits/develop/</a>
Number of commits		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/commits/develop/">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/commits/develop/</a>
Number of commits: by different people		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/pulse">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/pulse</a>
Issues reports: there are many		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues</a>
Issues are being closed		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed</a>
Docs: doco generated, format not ugly		3 <a href="https://csc510-team-wise-vilkomir-sykes.github.io/Slackpoint-Docs/">https://csc510-team-wise-vilkomir-sykes.github.io/Slackpoint-Docs/</a>
Docs: what: point descriptions of each class/function (in isolation)		3 Viewable in each file in our documentation: <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html</a>
Docs: how: for common use cases X,Y,Z mini-tutorials showing worked examples on how to do X,Y,Z		2 Viewable in each file in our documentation: <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html</a>
Docs: why: docs tell a story, motivate the whole thing, deliver a punchline that makes you want to rush out and use the thing		3 Viewable in each file in our documentation: <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/docs/_build/html/index.html</a>
Docs: short video, animated, hosted on your repo. That convinces people why they want to work on your code.		3 <a href="https://drive.google.com/file/d/1MPdmfJAbb_nGqiKyJrDB99l1aMbLmwXN/view?usp=sharing">https://drive.google.com/file/d/1MPdmfJAbb_nGqiKyJrDB99l1aMbLmwXN/view?usp=sharing</a>
Use of version control tools		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/</a>
Test cases exist		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/tree/develop/tests">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/tree/develop/tests</a>
Test cases are routinely executed		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/actions/workflows/run-tests.yml">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/actions/workflows/run-tests.yml</a>
Issues are discussed before they are closed		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed</a>
Chat channel: exists		3 Will email screenshots of chat upon request
Test cases: a large proportion of the issues related to handling failing cases.		3 Example of issue for bug: <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues/18">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues/18</a>
Evidence that the whole team is using the same tools: everyone can get to all tools and files		3 Will be shown in the demo with tutor
Evidence that the whole team is using the same tools (e.g. config files in the repo, updated by lots of different people)		3 Will be shown in the demo with tutor
Evidence that the whole team is using the same tools (e.g. tutor can ask anyone to share screen, they demonstrate the system running on their computer)		3 Will be shown in the demo with tutor
Evidence that the members of the team are working across multiple places in the code base		3 Teammates fixing bugs in other teammates' code
Short release cycles		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/issues?q=is%3Aissue+is%3Aclosed</a>
The file .gitignore lists what files should not be saved to the repo. See [examples]i( <a href="https://github.com/gitHub/gitignore">https://github.com/gitHub/gitignore</a> )		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/.gitignore">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/.gitignore</a>
The file INSTALL.md lists how to install the code		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/INSTALL.md">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/INSTALL.md</a>
The file LICENSE.md lists rules of usage for this repo		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/LICENSE.md">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/LICENSE.md</a>
The file CODE-OF-CONDUCT.md lists rules of behavior for this repo; e.g. see <a href="#">example</a>		3 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/CODE_OF_CONDUCT.md">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/CODE_OF_CONDUCT.md</a>
The file CONTRIBUTING.md lists coding standards and lots of tips on how to extend the system without screwing things up; e.g. see <a href="#">example</a>		2 <a href="https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/CONTRIBUTING.md">https://github.com/CSC510-Team-Wise-Vilkomir-Sykes/Slackpoint/blob/develop/CONTRIBUTING.md</a>
The file README.md contains all the following		
Video		3 <a href="https://drive.google.com/file/d/1OU31ga5OA5_IiIkBeIzOHMiCF4yW_JXB/view?usp=sharing">https://drive.google.com/file/d/1OU31ga5OA5_IiIkBeIzOHMiCF4yW_JXB/view?usp=sharing</a>
DOI badge: exists. To get a Digital Object Identifier, register the project at <a href="#">Zenodo</a> . DOI badges look like this:		3 In README.md badge
Badges showing your style checkers		3 In README.md badge
Badges showing your code formatters.		3 In README.md badge
Badges showing your syntax checkers.		3 In README.md badge
Badges showing your code coverage tools		3 In README.md badge
Badges showing any other Other automated analysis tools		3 In README.md badge
Question 1.1: Does your website and documentation provide a clear, high-level overview of your software?	yes	
Question 1.2: Does your website and documentation clearly describe the type of user who should use your software?	yes	
Question 1.3: Do you publish case studies to show how your software has been used by yourself and others?	no	
Question 2.1: Is the name of your project/software unique?	yes	
Question 2.2: Is your project/software name free from trademark violations?	yes	
Question 3.1: Is your software available as a package that can be deployed without building it?	no	
Question 3.2: Is your software available for free?	yes	
Question 3.3: Is your source code publicly available to download, either as a downloadable bundle or via access to a source code repository?	yes	
Question 3.4: Is your software hosted in an established, third-party repository likeGitHub ( <a href="https://github.com">https://github.com</a> ), BitBucket ( <a href="https://bitbucket.org">https://bitbucket.org</a> ),LaunchPad ( <a href="https://launchpad.net">https://launchpad.net</a> ) orSourceForge ( <a href="https://sourceforge.net">https://sourceforge.net</a> )?	yes	
Question 4.1: Is your documentation clearly available on your website or within your software?	yes	
Question 4.2: Does your documentation include a "quick start" guide, that provides a short overview of how to use your software with some basic examples of use?	yes	
Question 4.3: If you provide more extensive documentation, does this provide clear, step-by-step instructions on how to deploy and use your software?	yes	
Question 4.4: Do you provide a comprehensive guide to all your software's commands, functions and options?	yes	
Question 4.5: Do you provide troubleshooting information that describes the symptoms and step-by-step solutions for problems and error messages?	yes	
Question 4.6: If your software can be used as a library, package or service by other software, do you provide comprehensive API documentation?	n/a	
Question 4.7: Do you store your documentation under revision control with your source code?	yes	
Question 4.8: Do you publish your release history e.g. release data, version numbers, key features of each release etc. on your web site or in your documentation?	yes	
Question 5.1: Does your software describe how a user can get help with using your software?	yes	
Question 5.2: Does your website and documentation describe what support, if any, you provide to users and developers?	yes	
Question 5.3: Does your project have an e-mail address or forum that is solely for supporting users?	no	
Question 5.4: Are e-mails to your support e-mail address received by more than one person?	n/a	
Question 5.5: Does your project have a ticketing system to manage bug reports and feature requests?	yes	
Question 5.6: Is your project's ticketing system publicly visible to your users, so they can view bug reports and feature requests?	yes	
Question 6.1: Is your software's architecture and design modular?	yes	
Question 6.2: Does your software use an accepted coding standard or convention?	yes	
Question 7.1: Does your software allow data to be imported and exported using open data formats?	n/a	
Question 7.2: Does your software allow communications using open communications protocols?	yes	
Question 8.1: Is your software cross-platform compatible?	yes	
Question 9.1: Does your software adhere to appropriate accessibility conventions or standards?	yes	
Question 9.2: Does your documentation adhere to appropriate accessibility conventions or standards?	yes	
Question 10.1: Is your source code stored in a repository under revision control?	yes	

Question 10.2: Is each source code release a snapshot of the repository?	yes	
Question 10.3: Are releases tagged in the repository?	yes	
Question 10.4: Is there a branch of the repository that is always stable? (i.e. tests always pass, code always builds successfully)	yes	
Question 10.5: Do you back-up your repository?	no	
Question 11.1: Do you provide publicly-available instructions for building your software from the source code?	yes	
Question 11.2: Can you build, or package, your software using an automated tool?	no	
Question 11.3: Do you provide publicly-available instructions for deploying your software?	yes	
Question 11.4: Does your documentation list all third-party dependencies?	yes	
Question 11.5: Does your documentation list the version number for all third-party dependencies?	yes	
Question 11.6: Does your software list the web address, and licences for all third-party dependencies and say whether the dependencies are mandatory or optional?	n/a	
Question 11.7: Can you download dependencies using a dependency management tool or package manager?	yes	
Question 11.8: Do you have tests that can be run after your software has been built or deployed to show whether the build or deployment has been successful?	yes	
Question 12.1: Do you have an automated test suite for your software?	yes	
Question 12.2: Do you have a framework to periodically (e.g. nightly) run your tests on the latest version of the source code?	no	
Question 12.3: Do you use continuous integration, automatically running tests whenever changes are made to your source code?	yes	
Question 12.4: Are your test results publicly visible?	yes	
Question 12.5: Are all manually-run tests documented?	n/a	
Question 13.1: Does your project have resources (e.g. blog, Twitter, RSS feed, Facebook page, wiki, mailing list) that are regularly updated with information about your software?	no	
Question 13.2: Does your website state how many projects and users are associated with your project?	yes	
Question 13.3: Do you provide success stories on your website?	no	
Question 13.4: Do you list your important partners and collaborators on your website?	no	
Question 13.5: Do you list your project's publications on your website or link to a resource where these are available?	no	
Question 13.6: Do you list third-party publications that refer to your software on your website or link to a resource where these are available?	no	
Question 13.7: Can users subscribe to notifications to changes to your source code repository?	yes	
Question 13.8: If your software is developed as an open source project (and, not just a project developing open source software), do you have a governance model?	n/a	
Question 14.1: Do you accept contributions (e.g. bug fixes, enhancements, documentation updates, tutorials) from people who are not part of your project?	yes	
Question 14.2: Do you have a contributions policy?	yes	
Question 14.3: Is your contributions' policy publicly available?	yes	
Question 14.4: Do contributors keep the copyright/IP of their contributions?	yes	
Question 15.1: Does your website and documentation clearly state the copyright owners of your software and documentation?	yes	
Question 15.2: Does each of your source code files include a copyright statement?	no	
Question 15.3: Does your website and documentation clearly state the licence of your software?	yes	
Question 15.4: Is your software released under an open source licence?	yes	
Question 15.5: Is your software released under an OSI-approved open-source licence?	yes	
Question 15.6: Does each of your source code files include a licence header?	no	
Question 15.7: Do you have a recommended citation for your software?	yes	
Question 16.1: Does your website or documentation include a project roadmap (a list of project and development milestones for the next 3, 6 and 12 months)?	yes	
Question 16.2: Does your website or documentation describe how your project is funded, and the period over which funding is guaranteed?	n/a	
Question 16.3: Do you make timely announcements of the deprecation of components, APIs, etc.?	n/a	