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### **Problem Statement**

#### What?

- Not able to quantify good quality work
- Lack of motivation to do good quality work
- Missing actionable objectives
- Lack of recognition

#### Motivation?

- "Quiet Quitting" and "The Great Resignation"
- Growing discontent
- Identify top performers
- Foster a healthy work culture

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# Proposed Solution - RewardBot

#### Features:

- Slack Bot that provides reward points
- Leaderboard
- External Integration GitHub

### **Utility**:

- Provides recognition for hard workers
- Provides tangible rewards for good quality work
- Promotes healthy competition which in turn drives up productivity
- Fosters a healthy work culture that keeps people content
- Helps the company identify and retain top performers

Points Reward System

# **Use Case**

**Use Case:** Manually Awarding Points to Peers

#### **Preconditions:**

- The employee must have the necessary authorization to use the RewardBot.
- The employee should not have already used the RewardBot to award points more than two times.

#### Main Flow:

The employee will input the details of the award such as the recipient's name, the type of award, and the reason for giving the award using the appropriate slash command [S1]. The RewardBot will verify the response and save the points in the database [S2]. The RewardBot will send a private message to the awarder confirming the award details[S3].

#### **Subflows:**

[S1] The employee triggers the RewardBot using the appropriate slash command, and the bot will prompt them to input the recipient's name, the type of award, and the reason for the award.

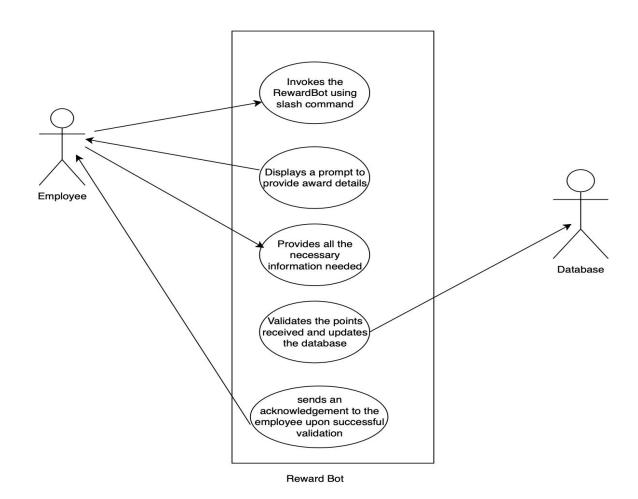
[S2] The RewardBot will validate the response and update the recipient's points if the validation is successful.

[S3] The RewardBot will send a confirmation of the award details to the awarder as a private message.

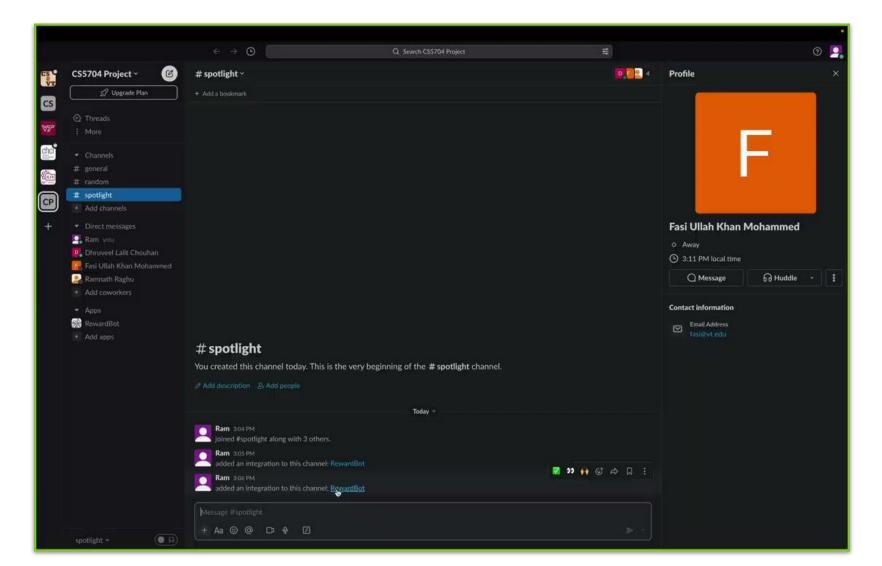
#### **Postconditions:**

- The recipient's record is updated with the awarded points.
- The award provider's attempt count increases by one.

# User Diagram



# Demo



Leaderboard

# **Use Case**

**Use Case:** Display the leaderboard with the employee's name and their accumulated points.

#### **Preconditions:**

- 1. The employee should have the necessary permissions to interact with the bot.
- 2. There should be valid entries in the database of the respective employees and their details.

#### **Main Flow:**

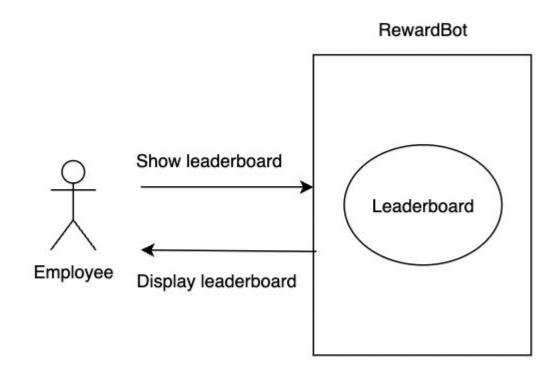
The employee will invoke a slash command which till then trigger the Reward Bot [S1]. The Reward Bot will then show the leaderboard to the employee on a private channel [S2].

#### **Sub Flow:**

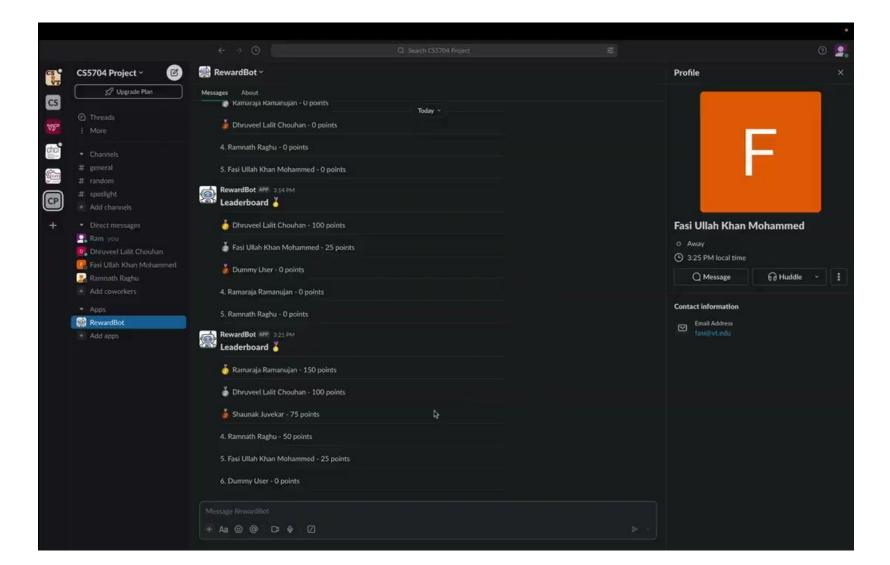
- [S1] Employee invokes the bot using the appropriate slash command.
- [S2] The bot then sends a private message containing the leaderboard to the employee who invoked the command.

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# **User Diagram**



# Demo



External Integration - GitHub

# Use Case

**Use Case: Integrating our RewardBot with GitHub** 

#### **Preconditions:**

- 1. The employee should be present in the database.
- 2. The employee should have raised a PR.

#### **Main Flow:**

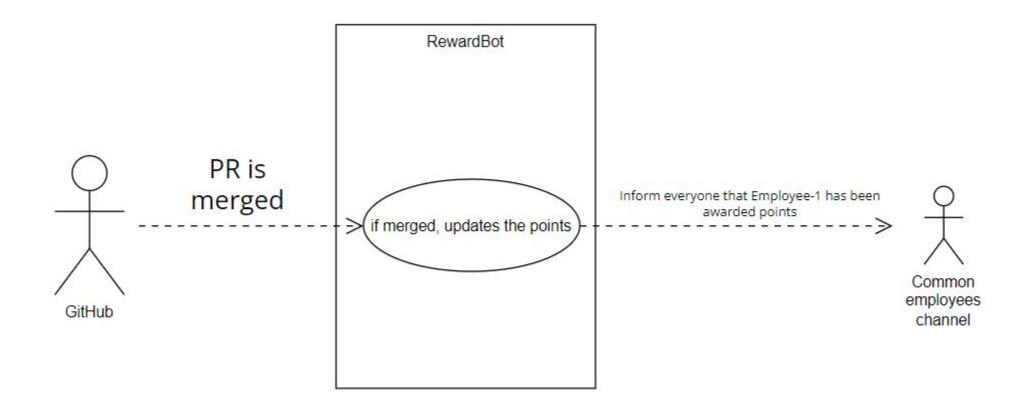
The bot will award the points to the employee who raised the PR once it is merged[S1]. The bot will also post a message on the common channel and will inform everyone about awarding the points[S2].

#### Subflows::

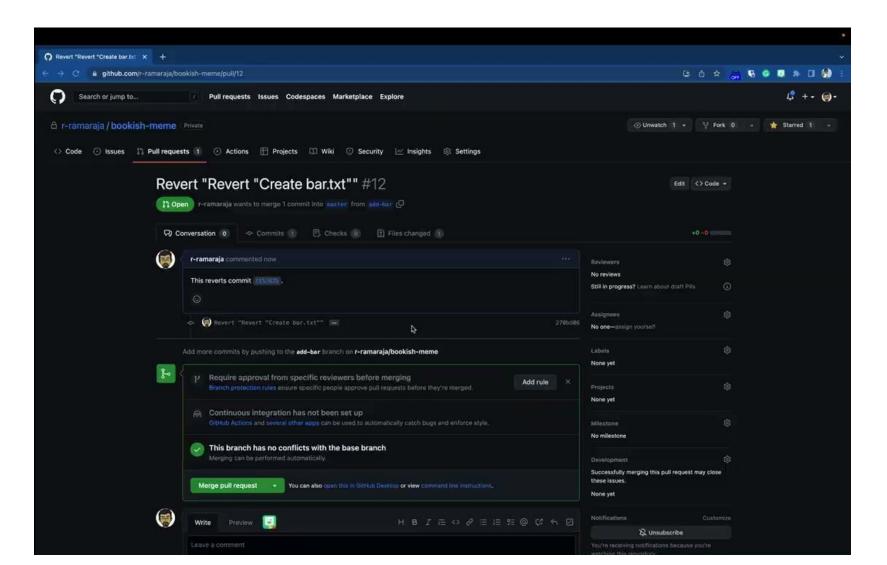
[S1] Once the PR is merged, it automatically award points to the employee and will update the database

[S2] It will post a message on the slack channel saying, Employee ABC has been awarded xyz points for their so and so contribution.

User Diagram



### Demo



# Limitations

- Available only on Slack
- Only one external integration i.e. Github
- As effective as the frequency of the user interactions
- Lack of user study

# Future Work

- Further external integrations such as JIRA, Salesforce, StackOverflow, etc.
- Improve gamification adding levels and badges
- Rules manager approves the peer-to-peer rewards
- Leaderboard 2.0 metrics and visualizations
- Customizability to tailor according to the organization's culture
- Points Redemption exchange points for rewards

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# Lesson Learnt

#### What went well?

- Develop an app end-to-end from scratch
- Collaboration as a team
- Usage of tools for Software Engineering

### What did not go well?

- Time management
- Learning curve
- Cloud deployment

Thank You! Questions?