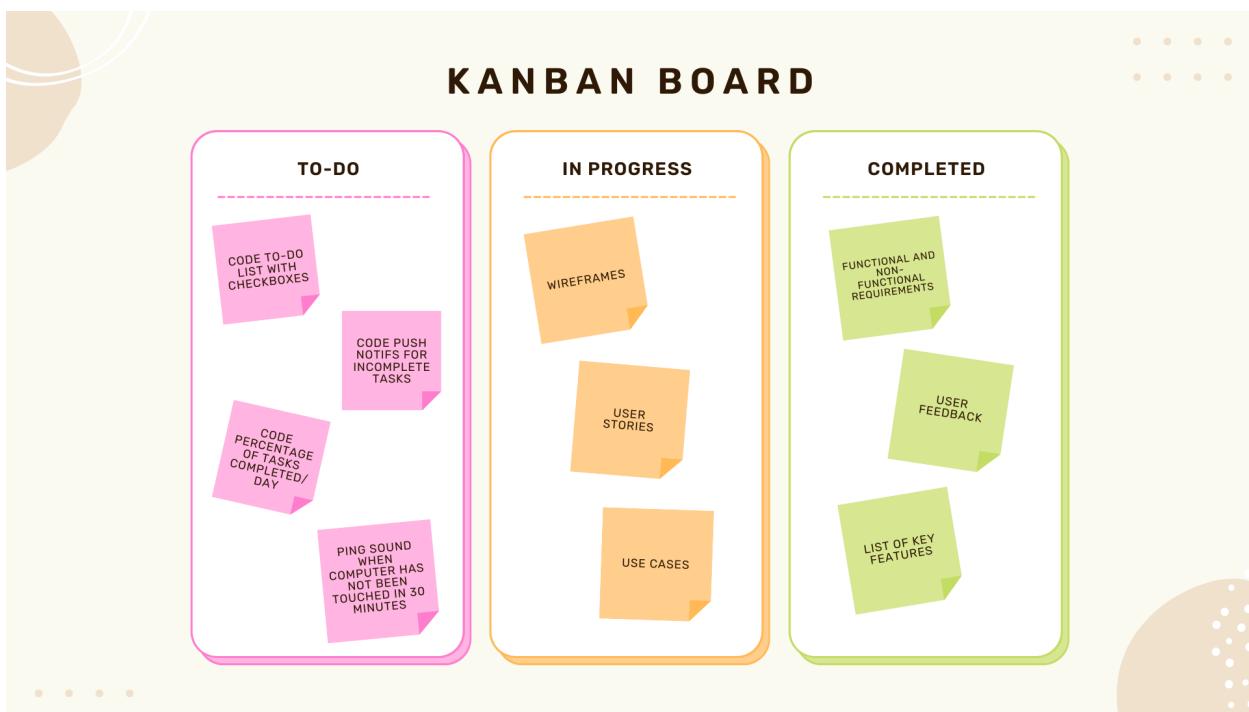


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Process Deliverable I

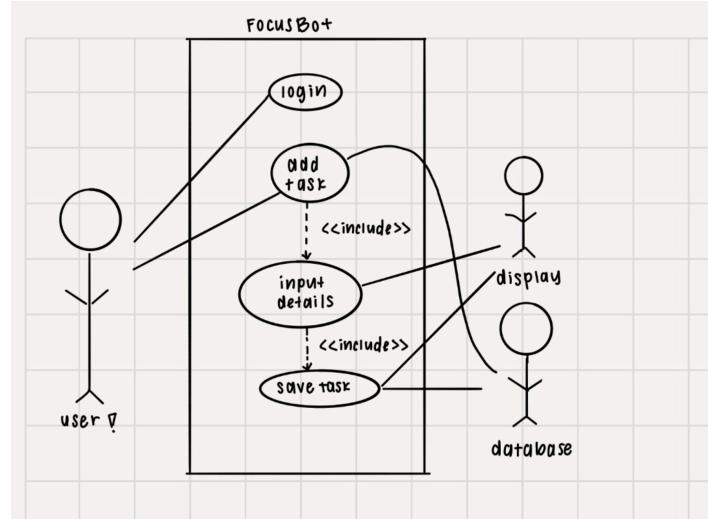
- Kanban: submit a depiction (i.e., screenshot, link, etc.) of completed and prioritized tasks in your team's Kanban board
 - To Do
 - Code to-do list with checkboxes
 - Code push notifs for incomplete tasks
 - Code percentage of tasks completed/day
 - Ping sound when the computer has not been touched in 30 minutes
 - In Progress
 - Wireframes
 - User Stories
 - Use Cases
 - Completed
 - Functional and Non-Functional Requirements
 - User Feedback
 - List of Key Features



Requirements Analysis

Based on the results of your requirements elicitation, goals for your project, and course materials, please complete the following tasks:

1. Provide an example of five hypothetical non-functional requirements for your system. Be sure to include the specific type of requirement discussed in class, with each requirement coming from a unique category.
 - a. **Usability:** Any graphic needs to take up at least 10% of screen size
 - b. **Reliability:** The Focus-Bot should achieve a minimum of 7 days (168 hours) of Mean Time Between Failures to ensure a stable environment and task management supporting it throughout the workweek.
 - c. **Performance:** Updates to task list, progress bar, push notifs should take <1 millisecond.
 - d. **Supportability:** The system should allow frequent and easy changes in the network configuration.
 - e. **Implementation/Constraints:** The system must be available across multiple operating systems, including but not limited to MacOS, Windows, and Linux.
2. Provide an example of five hypothetical functional requirements for your system.
 - a. FocusBot must display a ToDo list with tasks that can be altered, checked off, and rearranged according to user's personal priority
 - b. Must display a percentage of tasks completed on user's screen throughout the day, with the option to minimize or expand
 - c. FocusBot must issue a ping sound to the user's computer following a 30 minute period of inactivity.
 - d. The system must send notifications to the user in the bottom right portion of the screen with reminders of incomplete tasks.
 - e. FocusBot must be customizable to the user's preferences, including color of features, font, ping sound, notification sound, etc.
3. Write five formal use cases for your system and provide use case or sequence diagrams to represent each use case.
 - a. Use Case: Adding a task
 - i. **Actor:** User
 - ii. **Precondition:** The user is logged into the FocusBot
 - iii. **Scenario:**
 1. The user selects the "Add Task" button
 2. The user inputs their task details, including name, due date, and priority
 3. The user saves the task
 4. The system confirms tasks and it's added and then displayed in the to-do list



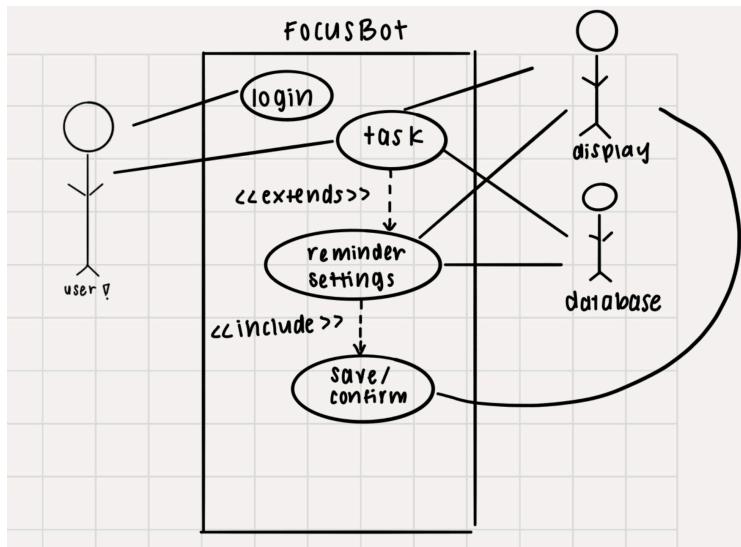
b. Use Case: Set task reminder

i. **Actor:** User

ii. **Precondition:** The user has already created the task.

iii. **Scenario:**

1. The user selects a task and opens the reminder settings.
2. The user sets or selects a reminder time.
3. The user confirms the reminder.
4. The system then saves the reminder and then displays it in the homepage.



c. Use Case: Check Idle Activity

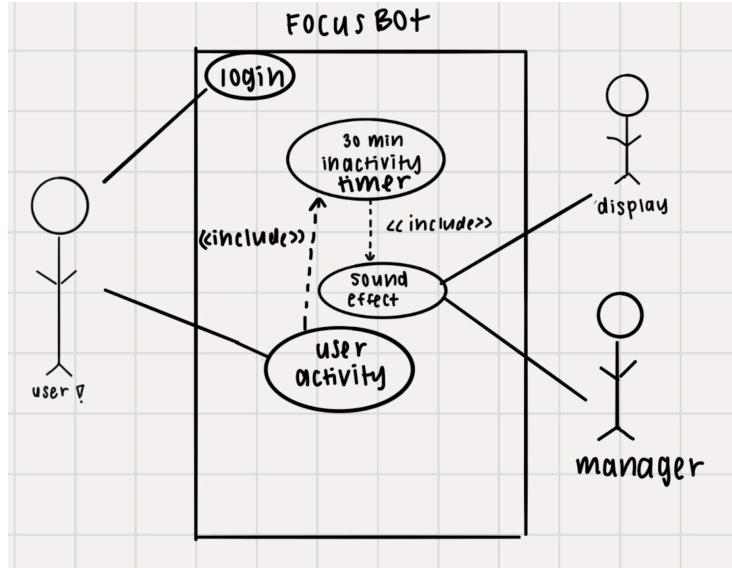
i. **Actor:** System

ii. **Precondition:** The user is logged into the FocusBot and is idle

iii. **Scenario:**

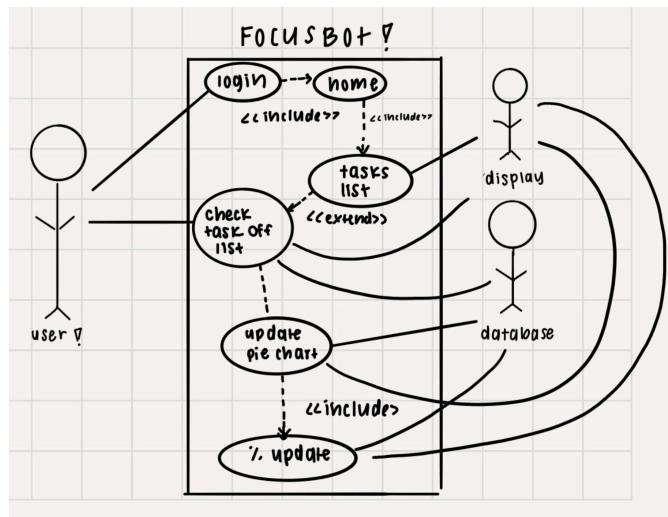
1. The system detects no activity for 30 minutes.

2. The system sends a notification with a ping sound to encourage the user to be productive.
3. User goes back to work
4. The system resets inactivity timer



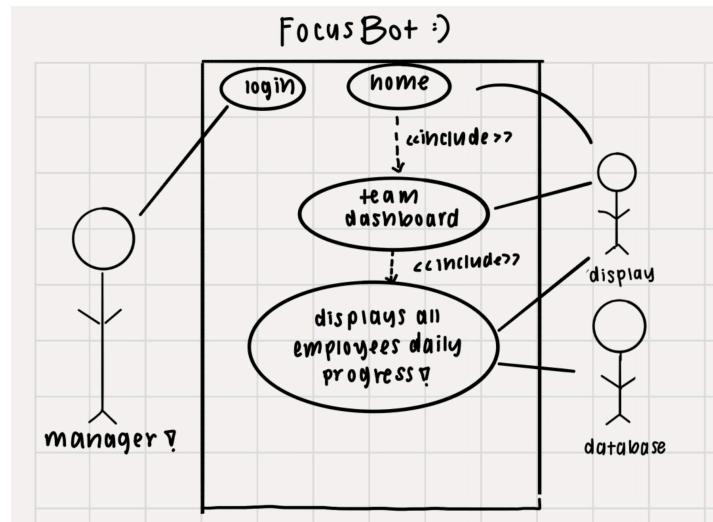
d. Use Case: Task progress display

- i. **Actor:** User
- ii. **Precondition:** The user has several tasks created.
- iii. **Scenario:**
 1. The user completes tasks, and then checks them off.
 2. The system then updates the progress pie-chart in real time.
 3. The system displays the updated task completion percentage.



e. Use Case: View Employee Productivity Progress Charts

- i. **Actor:** Manager
- ii. **Precondition:** Manager is logged into FocusBot and has access to the team's task data.
- iii. **Scenario:**
 1. The manager navigates to the "Team Dashboard" on the FocusBot
 2. The System displays the progress charts for the selected employee, showing the detail of completed tasks, pending tasks, and milestones.



Requirements Specification

Based on the results of your requirements elicitation, goals for your project, and course materials, please complete the following tasks:

1. Write four user stories from the perspective of at least two different actors.
Provide the acceptance criteria for these stories.
 - a. User Story 1
 - i. "As a user for ToDo list, I want to add a new task to my ToDo list so that I don't lose track of this assigned task."
 - ii. Acceptance Criteria:
 1. Displays on ToDo list
 - b. User Story 2
 - i. "As a user for the Progress Bar, I want to complete 100% of the tasks for the day, so that I can receive new tasks."
 - ii. Acceptance Criteria:
 1. The progress bar shows 100% completion
 2. Confetti floats down the screen when all tasks are completed
 - c. User Story 3

- i. "As a user for the Inactivity Notification, I want to be reminded of inactivity on my machine so that I can be reminded to go back to work after being distracted."
 - ii. Acceptance Criteria:
 - 1. User successfully returns to the computer to work following a ping sound
 - d. User Story 4
 - i. "As a company manager, I want to see employees' progress bars, so that I can keep track of productivity within the team."
 - ii. Acceptance Criteria:
 - 1. Successfully updates each individual's progress and updates appear on the manager's dashboard
2. For each user story mentioned above, estimate the amount of effort needed to complete this task using function points. Explain your answer.
- a. User story 1
 - i. Function points - 3
 - ii. Explanation: connecting to the database and writing to it
 - b. User story 2
 - i. Function points - 34
 - ii. Explanation: the condition is easy, but coding graphics for confetti is difficult
 - c. User story 3
 - i. Function points - 21
 - ii. Explanation: The timer has to start over each time the mouse is touched, have to connect to the computer sound system
 - d. User story 4
 - i. Function points - 8
 - ii. Explanation: The user list is displayed whenever the user updates the bar