PROJECT TITLE

Self-record Attendance System

PRESENTORS:
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CS-2 PROJECT PROPOSAL:
PRESENTAITON

PROBLEM STATEMENT

The procedures for the current attendance system involve mainly manual work/processes. Though these processes of the attendance system make it functional, we noticed that some processes could be “more efficient” (Alve, 2025). Here are some examples (Examples only)

Example 1: On November 21, 2025, specifically during Noise vs. Voice Talk Attendance

Example 2: Role of Homeroom / Class Adviser in Student’s attendance (Based on the PSHSS CIM 7.0 Student’s Attendance V2_Rev1.pdf)

What do you want to mainly achieve in this project?

Attempt to solve the issues mentioned by developing an attendance system that let’s students to record their attendance (considering measures for data integrity), and helps with making an attendance summary of students. That way, the friction of Student’s attendance can generally reduce (Alve, 2025).

PROBLEM STATEMENT

Cons of manual attendance system procedures:

1. Prone to Human Error/s
Errors such as incorrect/duplicate entries, typos, fraudulence, and etc. can accumulate over time and cause a growing impact (Ex: Delayed Intervention/s)

2. Time Consuming / Labor Extensive
Manual attendance system procedures can require significant amount of time and effort.

3. Limited real-time visibility
If there are no real-time, efficient insights in consolidating attendance data, it can result to effects such as wasted time/effort, shift scheduling, etc.

4. Trust Issues
5. Risk of Data Loss
6. Fraud Susceptibility
7. Compliance risks

PROJECT OBJECTIVES

(GUIDE) QUESTIONS

Specific

What is the goal of your CS-2 Year-long project? What do you want to accomplish?

Measurable

How will you know that you've met you're goal? What will you use to measure progress/outcome?

Achieveable

Is the project doable? What challenges might occur in doing this? Do you have the necessary skills and resources?

Relevant

Why does the outcome of your project matter, and how does it align with your general goals of this project?

Time-bound

What is the time frame of your goal? What is the deadline, and is it realistic?

Specific

Develop (Python program) a self-record automated attendance for students in order to transition from manual to automated attendance, avoids false negatives/positives, and can be counterchecked with the student's recording.

Measurable

The project's output can be tested by comparing the time spent on attendance checking and checking if false positives/negatives can occur and their effect. Additionally, consider whether the time spent for the Classroom/Homeroom adviser's role for Student's attendance has reduced.

Achieveable

We believe that the project is doable, given that we understand the concept of our project, know what requirements are needed in this project, have access to online sources if needed, and have 3 Quarters to finish it.

Relevant

To align with the “Scope” section in the CS-2 Year-long project walkthrough and create an attendance system that could reducing time in recording attendance and overall make attendance systems have less friction

Time-bound

Finalize and test the Self-record Attendance System project on or before the end of the 4th quarter (Additionally follow the guidelines for CS 2 Project Walkthrough)

PLANNED FEATURES

- Log in and log out program feature
  User will have to “log in” and “log out” of the program. Logging in requires your account name and password. It can be clear who the student is and can be reflected in attendance.

- Option to (Create/Fill Out/View) an attendance

  Create: Involves, PIN/Password/Key, Time to start/stop checking attendance, required fields

  Fill out: Involves inputting attendance PIN, filling out required field/s, providing “counter checking”

  View: Gives list of attendance you’re involved and the status of it. Can include summary report

- Current Time Utilization for checking attendance
  Attendance checks time the attendee has recorded their attendance and decides if it should be present/absent/tardy/cutting classes (Program will check time of recording. User will not input the time)
- Settings Feature (Change account password, managing attendance view list, format, appearance)

PLANNED INPUTS & OUTPUTS

1. Program asking for account name and password
2. Programming checking if account name exists and matches with password
3. Creating an attendance
4. Viewing attedances
5. Summary Report of Attendance
6. Filling out an attendance
7. Counter checking attendance
8. Settings
9. Logging Out

LOGIC PLAN

Order of slides for PFD:

- Top Left
- Bottom Left
- Bottom Right
- Top Right

CS-2 PROJECT PROPOSAL:
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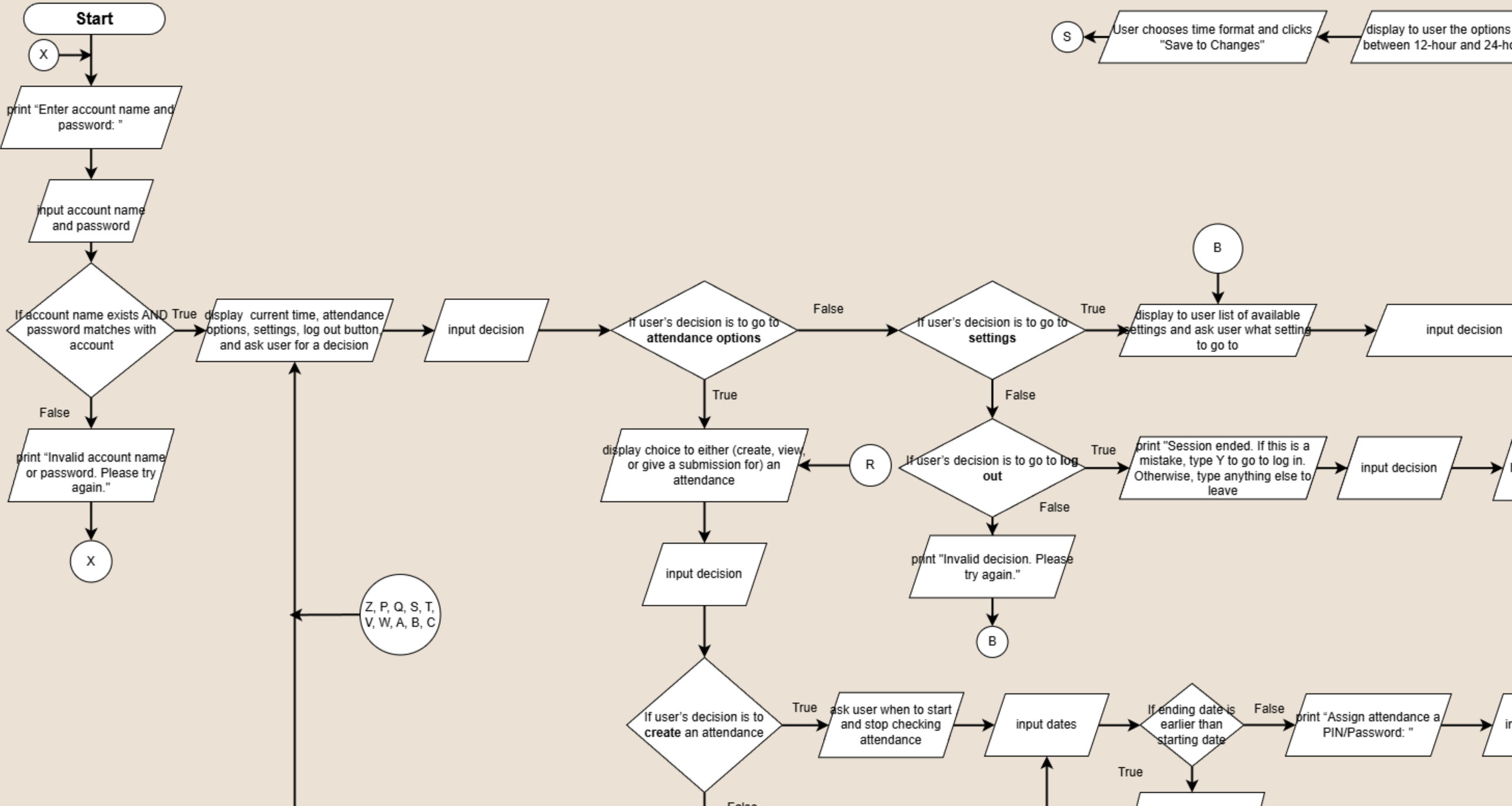
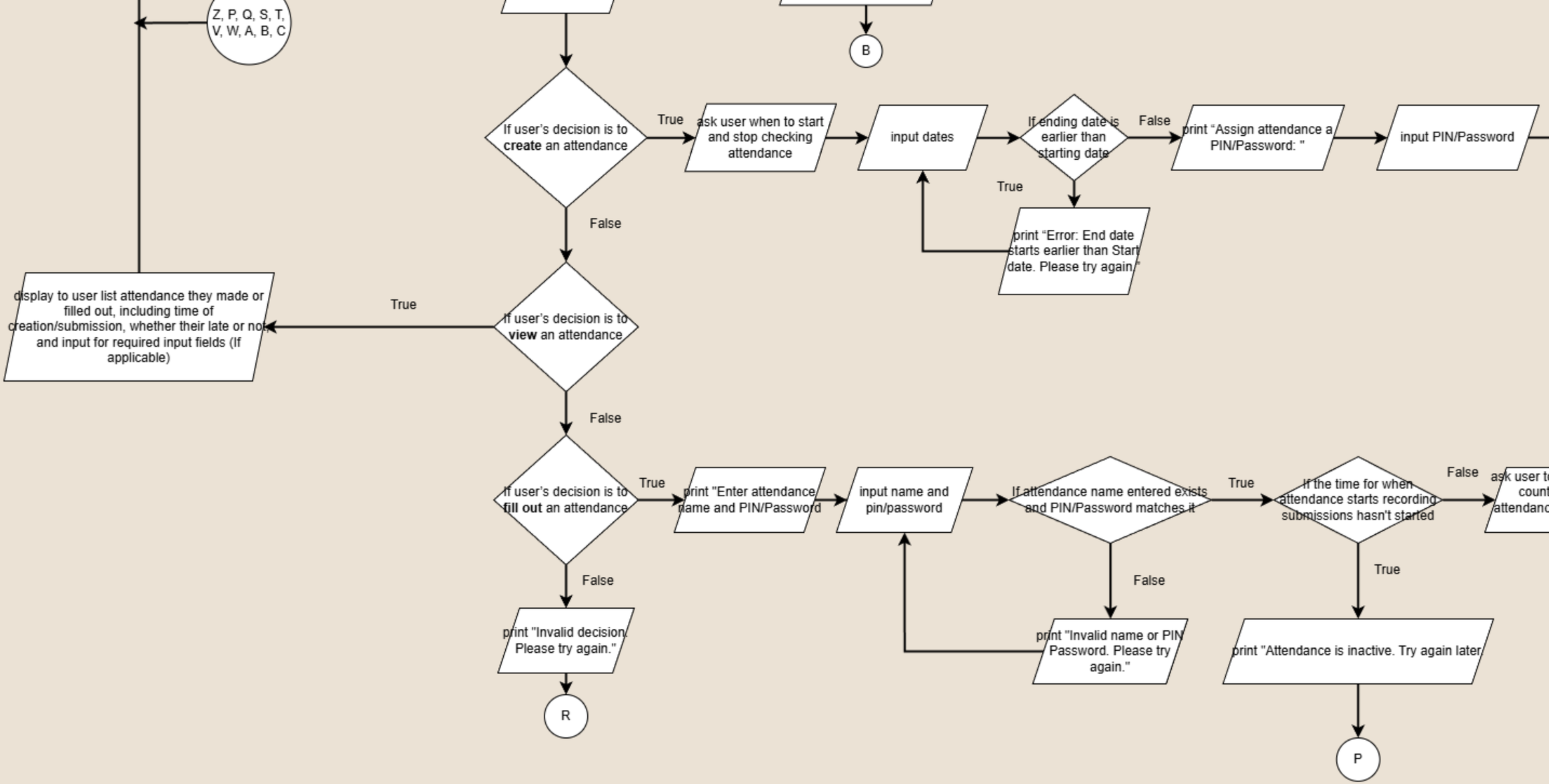
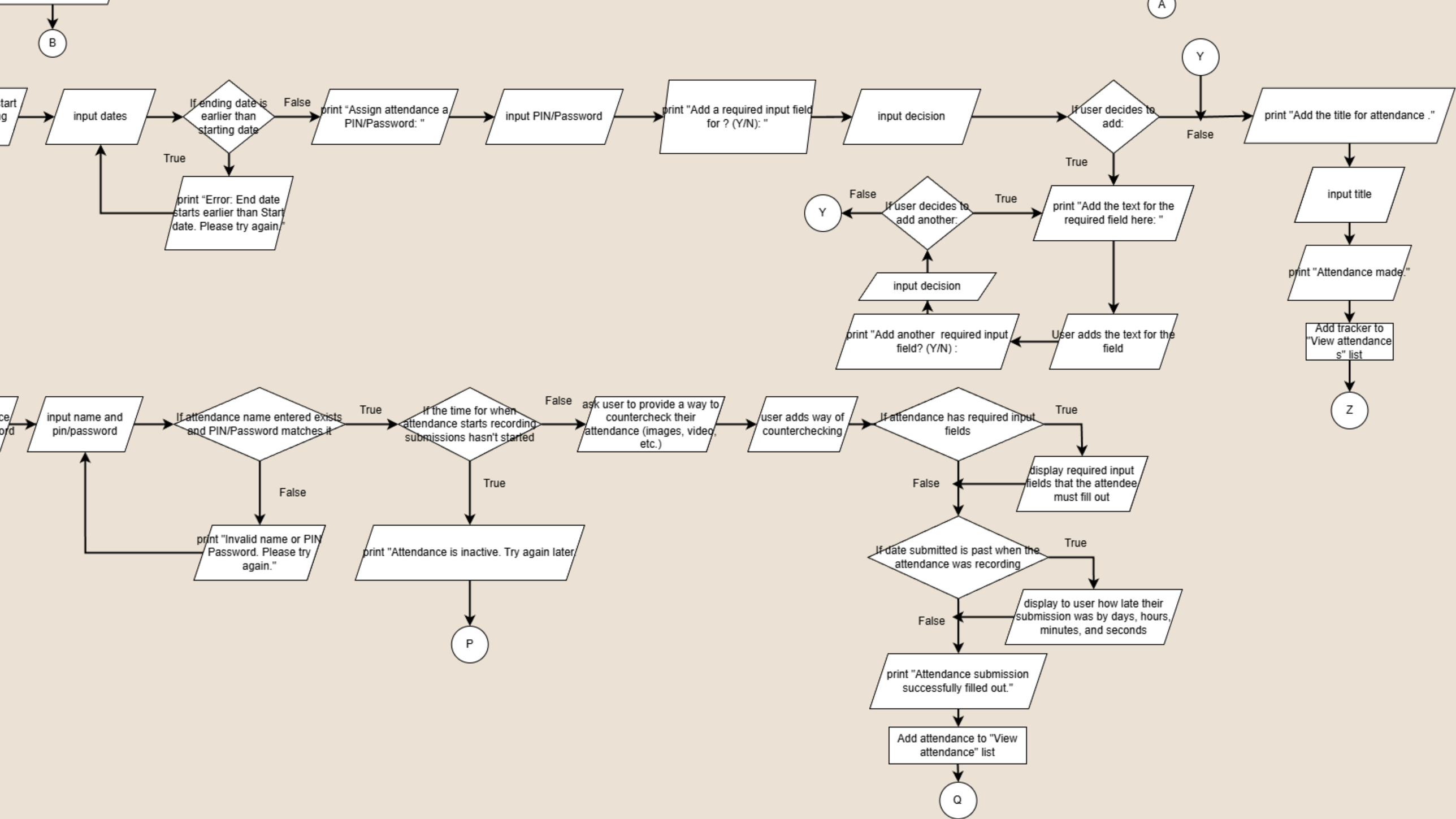
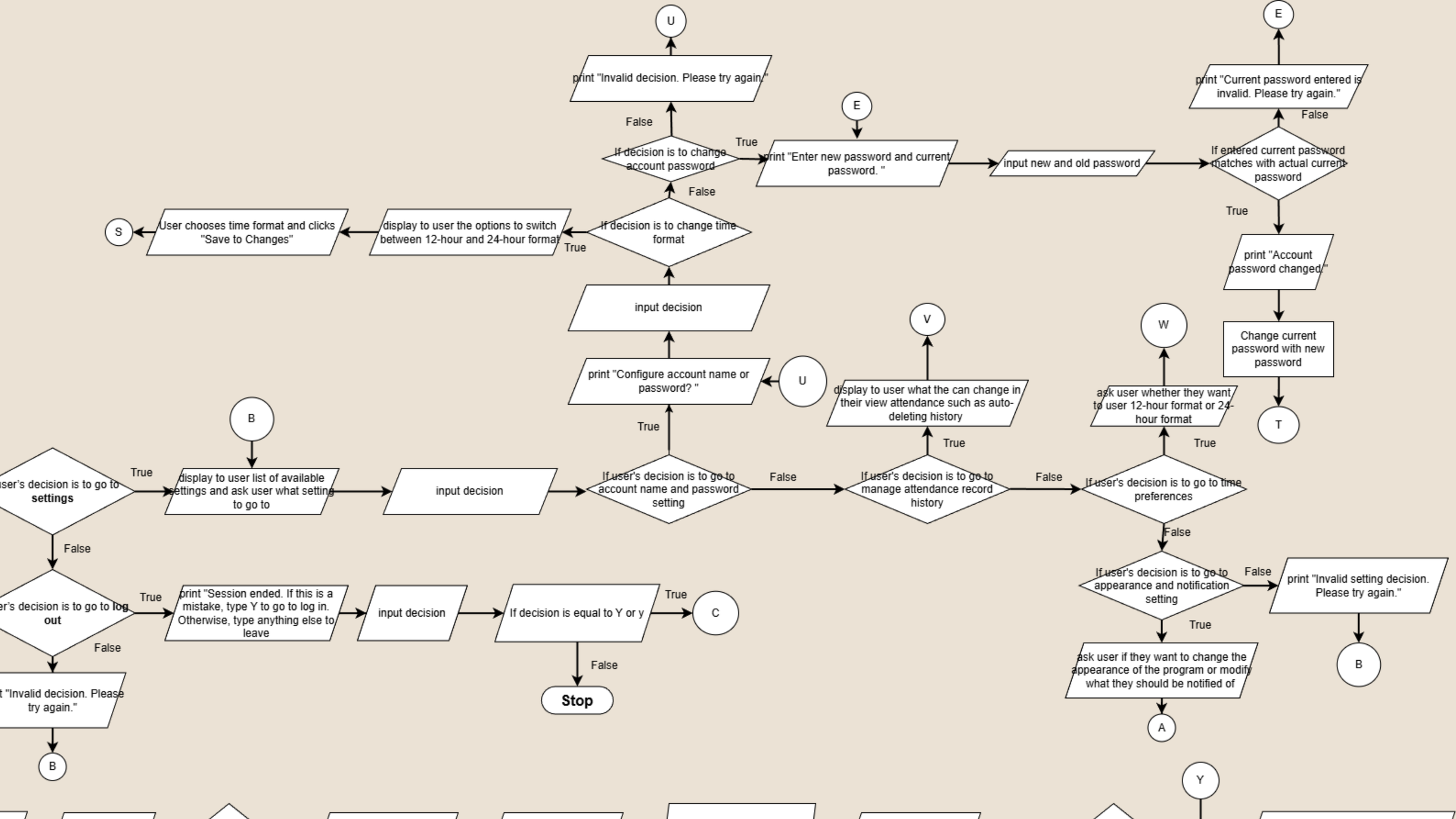

Start
X
print “Enter account name and password: ”
input account name and password
If account name exists AND password matches with account
True
False
print “Invalid account name or password. Please try again."
X
display current time, attendance options, settings, log out button, and ask user for a decision
input decision
If user’s decision is to go to attendance options
True
False
display choice to either (create, view, or give a submission for) an attendance
R
input decision
Z, P, Q, S, T, V, W, A, B, C
If user’s decision is to create an attendance
True
ask user when to start and stop checking attendance
input dates
If ending date is earlier than starting date
False
True
print “Assign attendance a PIN/Password: ”
If user’s decision is to go to settings
True
False
B
display to user list of available settings and ask user what setting to go to
input decision
S
User chooses time format and clicks "Save to Changes"
display to user the options between 12-hour and 24-ho
If user’s decision is to go to log out
True
False
print "Session ended. If this is a mistake, type Y to go to log in. Otherwise, type anything else to leave
input decision
print "Invalid decision. Please try again."
B


Z, P, Q, S, T, V, W, A, B, C
B
If user's decision is to create an attendance
True
ask user when to start and stop checking attendance
input dates
If ending date is earlier than starting date
False
print "Assign attendance a PIN/Password: "
input PIN/Password
True
print "Error: End date starts earlier than Start date. Please try again."
False
If user's decision is to view an attendance
True
display to user list attendance they made or filled out, including time of creation/submission, whether their late or not and input for required input fields (If applicable)
False
If user's decision is to fill out an attendance
True
print "Enter attendance name and PIN/Password
input name and pin/password
If attendance name entered exists and PIN/Password matches it
True
If the time for when attendance starts recording submissions hasn't started
False
True
print "Invalid name or PIN Password. Please try again."
False
print "Attendance is inactive. Try again later
P
False
print "Invalid decision. Please try again."
R


A
B
input dates
If ending date is earlier than starting date
False
True
print “Error: End date starts earlier than Start date. Please try again.”
print “Assign attendance a PIN/Password: ”
input PIN/Password
print "Add a required input field for ? (Y/N): "
input decision
If user decides to add:
True
False
Y
print "Add the title for attendance ."
input title
print "Attendance made."
Add tracker to "View attendances" list
Z
print "Add the text for the required field here: "
User adds the text for the field
If user decides to add another:
False
True
Y
input decision
print "Add another required input field? (Y/N) :
input name and pin/password
If attendance name entered exists and PIN/Password matches it
True
False
print "Invalid name or PIN Password. Please try again."
If the time for when attendance starts recording submissions hasn't started
True
False
print "Attendance is inactive. Try again later."
P
ask user to provide a way to countercheck their attendance (images, video, etc.)
user adds way of counterchecking
If attendance has required input fields
True
False
display required input fields that the attendee must fill out
If date submitted is past when the attendance was recording
True
False
display to user how late their submission was by days, hours, minutes, and seconds
print "Attendance submission successfully filled out."
Add attendance to "View attendance" list
Q


U
print "Invalid decision. Please try again."
False
If decision is to change account password
True
E
print "Enter new password and current password. "
input new and old password
If entered current password matches with actual current password
E
print "Current password entered is invalid. Please try again."
False
True
print "Account password changed."
Change current password with new password
T
False
If decision is to change time format
True
display to user the options to switch between 12-hour and 24-hour format
User chooses time format and clicks "Save to Changes"
S
input decision
print "Configure account name or password? "
U
True
If user's decision is to go to account name and password setting
False
display to user what the can change in their view attendance such as auto-deleting history
V
True
If user's decision is to go to manage attendance record history
False
ask user whether they want to user 12-hour format or 24-hour format
W
True
If user's decision is to go to time preferences
False
If user's decision is to go to appearance and notification setting
False
print "Invalid setting decision. Please try again."
B
True
ask user if they want to change the appearance of the program or modify what they should be notified of
A
B
True
display to user list of available settings and ask user what setting to go to
input decision
If user's decision is to go to settings
True
False
If user's decision is to go to log out
True
print "Session ended. If this is a mistake, type Y to go to log in. Otherwise, type anything else to leave
input decision
If decision is equal to Y or y
True
C
False
Stop
False
t "Invalid decision. Please try again."
B
Y

EXAMPLE:

1. User inputs their account name and password

```
Self-record Attendance System: Log in
Enter account name: [Name Example]
Enter account password [Password Example]
```

2. User is shown the main dashboard

```
Self-record Attendance System
Date: [Month Day, Year, HH:MM AM/PM]
1 - Attendance Options
2 - Settings
3 - Log Out
Enter Decision: 1
```

EXAMPLE:

3. User is shown the attendance options

```
Attendance Options
Date: [Month Day, Year, HH:MM AM/PM]
1 - Create Attendance
2 - View Attendance
3 - Fill out Attendance
Enter Decision: 3
```

4. User fills out attendance

```
Enter Attendance Name: [Attendance Name]
Enter corresponding PIN/Password [Password]
Upload counterchecking here: [Counterchecking]
Attendance Filled Out
```

5. User logs out

```
Self-record Attendance System
Date: [Month Day, Year, HH:MM AM/PM]
1 - Attendance Options
2 - Settings
3 - Log Out
Enter Decision: 3
```

END OF PRESENTATION

Self-record Attendance System

THANK YOU!

PRESENTORS:
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CS-2 PROJECT PROPOSAL:
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REFERENCES:

SLIDE 2:

Alve, G. A. [Alve-Camia]. (2025, September 25). camia_AlveOrejola [Computer Software]. GitHub. https://github.com/Alve-Camia/camia_AlveOrejola

SLIDE 3:

Murkute, M. (2025, September 26). How manual attendance comprises accuracy and trust in your operations. FieldMaster.AI. https://www.fieldmaster.ai/blog/manual-attendance-risks-accuracy-trust-payroll

Manual vs. automated attendance systems: Pros and cons. (n.d.). Spintly. Retrieved November 30, 2025, from https://spintly.com/blog/manual-vs-automated-attendance-systems-pros-and-cons/

Attendance management: Manual vs. automated system - which is better? (2025, February 6). Deep Checkin. Retrieved November 30, 2025, from https://deepcheckin.com/attendance-management-manual-vs-automated-systems-which-is-better/

SLIDE 4:

University of California (2017). SMART goals: A how to guide. chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.ucop.edu/local-human-resources/_files/performance-appraisal/How+to+write+SMART+Goals+v2.pdf

SLIDE 7-8:

Alve, G. A. [Alve-Camia]. (2025, September 25). camia_AlveOrejola [Computer Software]. GitHub. https://github.com/Alve-Camia/camia_AlveOrejola

SLIDE 14-15:

Alve, G. A. [Alve-Camia]. (2025, September 25). camia_AlveOrejola [Computer Software]. GitHub. https://github.com/Alve-Camia/camia_AlveOrejola