



CODE CHALLENGE
CHAMPIONSHIP

AI MISSION 3

CODE CHALLENGE CHAMPIONSHIP
SENIOR CATEGORY

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Work Time Monitoring System

Overview:

A marketing company wants to implement a system to monitor employee work time using facial recognition. The system will allow employees to sign in with their **name and face image**, then track their working time based on whether their face is detected by the camera. After **60 seconds** of continuous detection, the system will automatically stop and display a message to indicate the end of the monitoring period. Your mission is to help the company build this system using PictoBlox.

Mission:

As a skilled developer, your task is to create a **Work Time Monitoring System** for the marketing company using PictoBlox. The system will involve two main buttons: **Sign In** and **Start Work**.

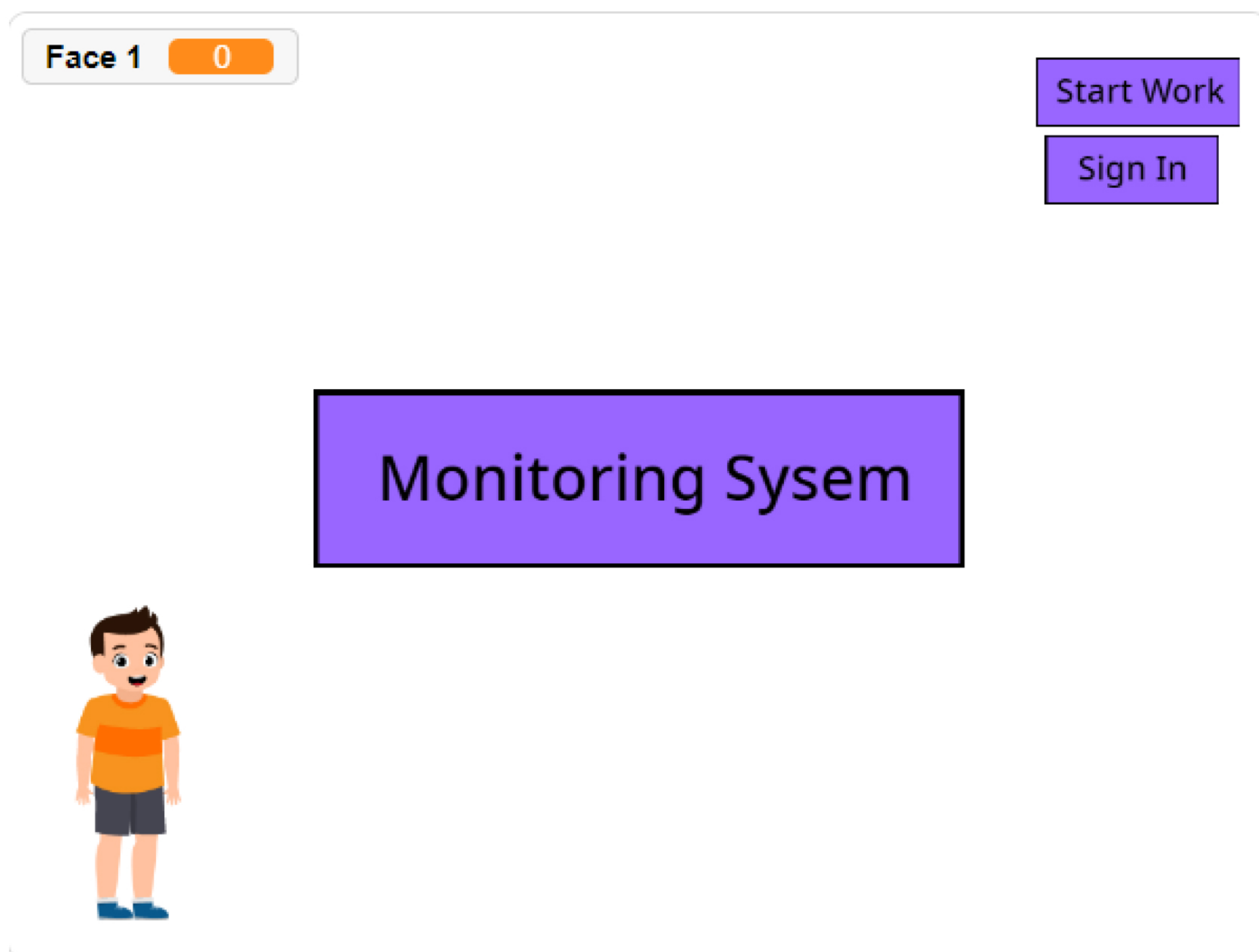
- **Sign In:** This button allows employees to register their face and name in the system.
- **Start Work:** This button starts the monitoring process, tracking the employee's working time based on facial recognition.

John will act as the visual assistant, guiding the employee through the process and providing feedback.

Useful Hints:

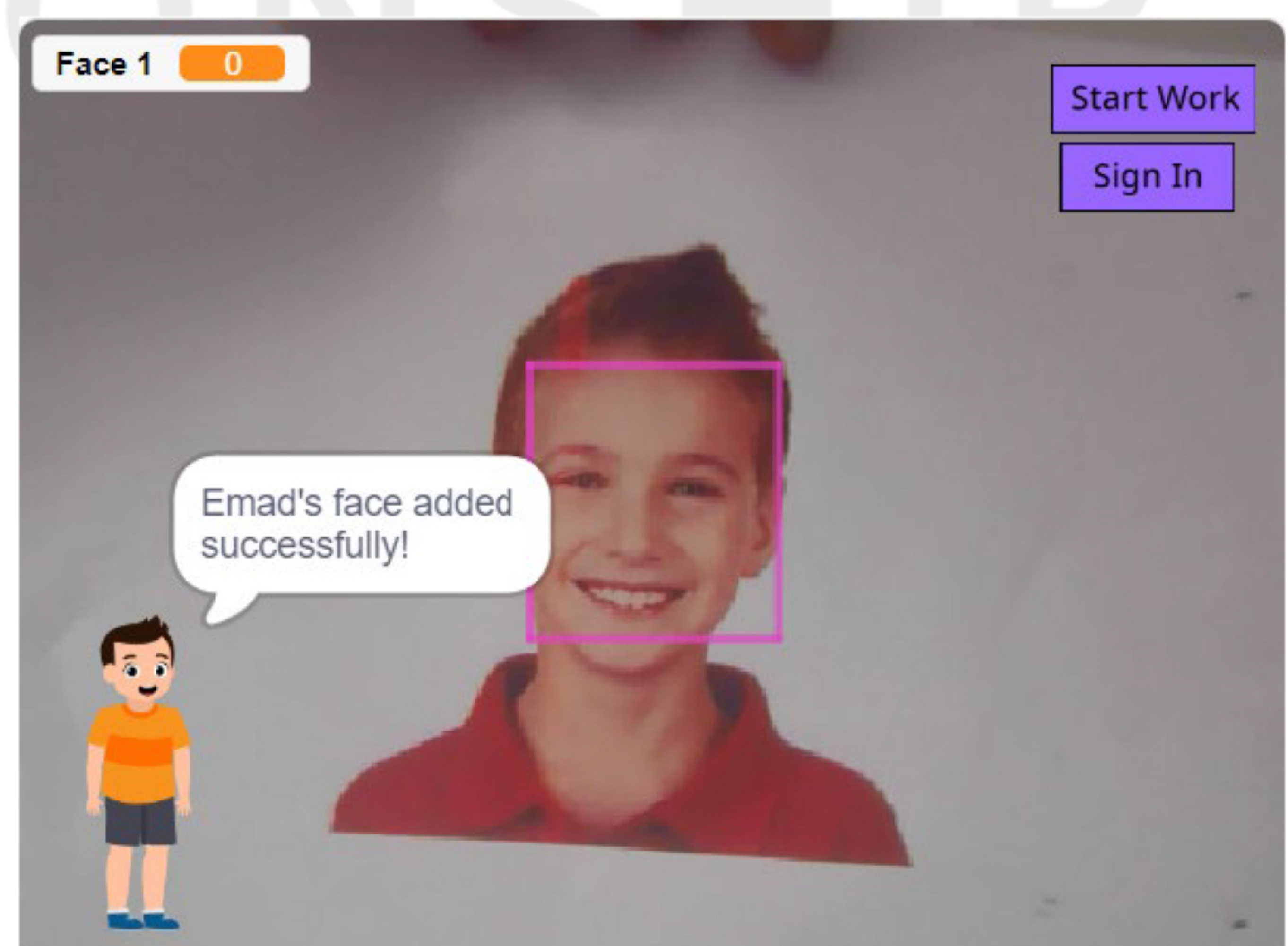
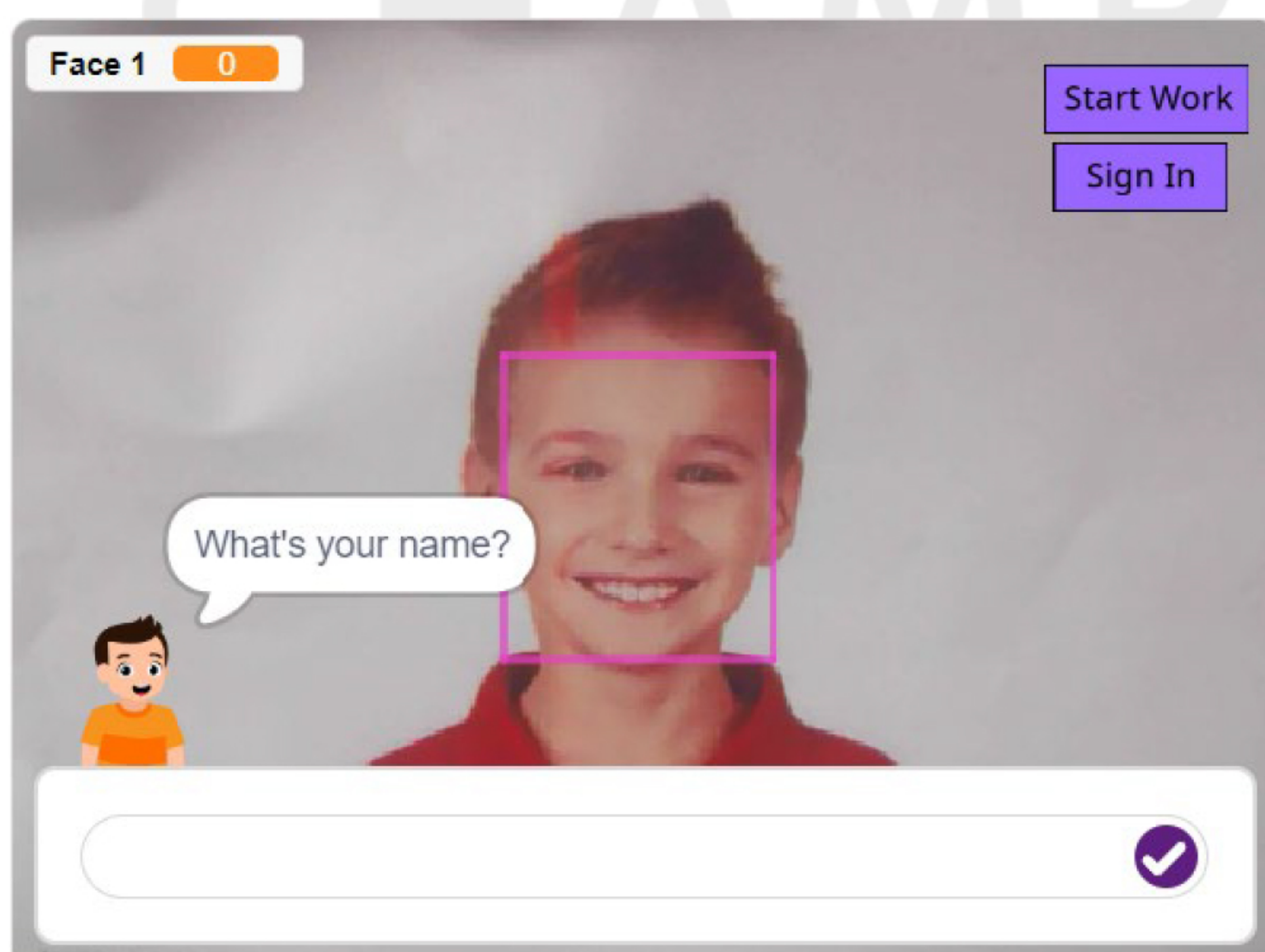
- Use **PictoBlox's Face Detection and Recognition Extension** to recognize and store employees' faces.
- Implement time tracking functionality to measure how many seconds the employee's face is detected by the camera.
- **After 60 seconds**, ensure the system stops monitoring, turns off the camera, and displays a message to the user.
- Store and manage employee data securely, ensuring that face images and names are associated correctly.

Game Steps:



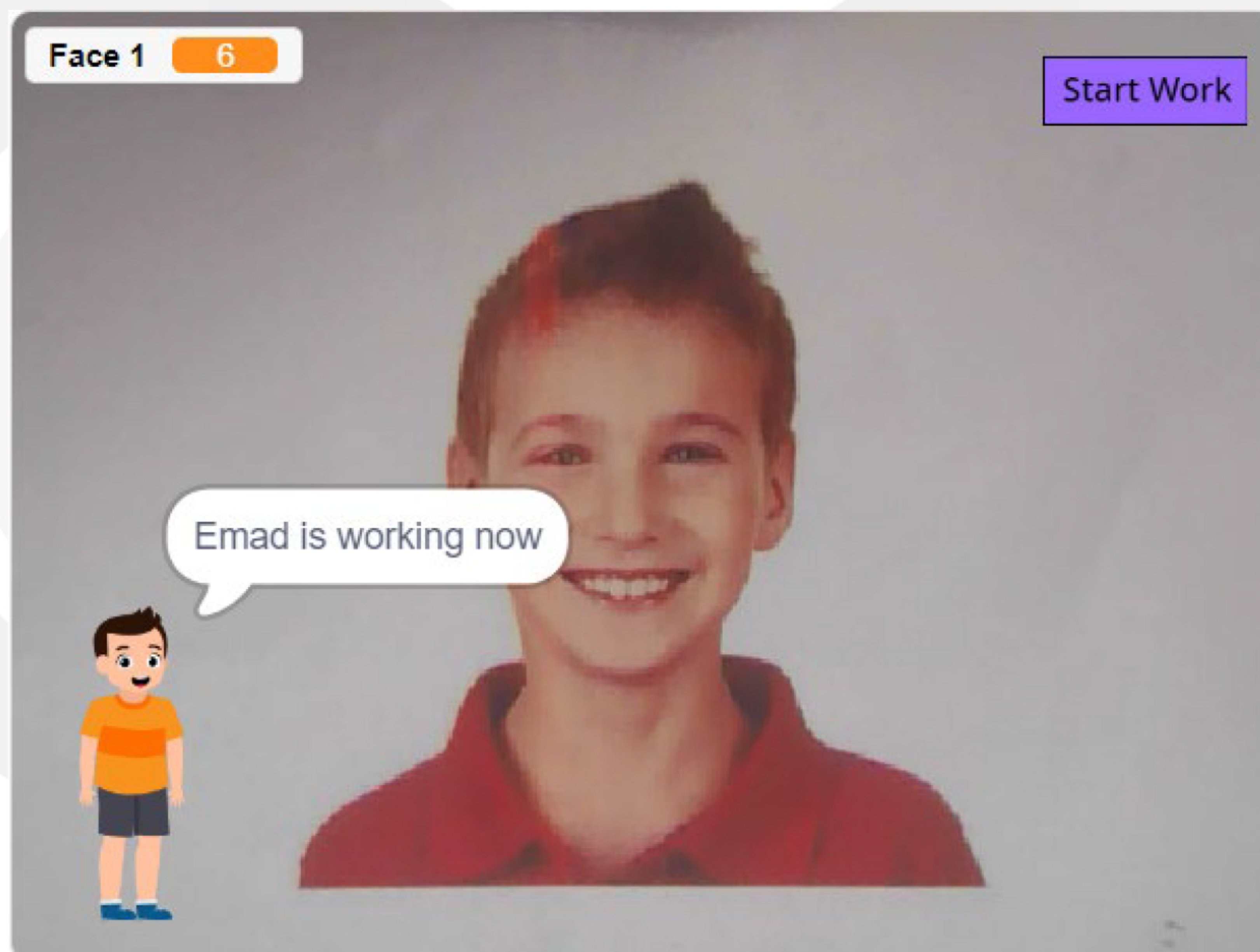
- **Step 1: Sign In Process**

1. The user clicks the Sign In button.
2. The camera opens, and John asks for the employee's name.
3. The employee provides their name, and John takes a picture of the employee's face.
4. John confirms, "**{name}'s face is added successfully!**" and the system saves the face image with the associated name.
5. The camera then turns off, and the Sign In button disappears.



- **Step 2: Start Work Process**

1. The user clicks the Start Work button.
2. The Sign In button disappears, and the camera opens for face detection.
3. The system starts scanning the employee's face. If the employee's face is detected:
 - The system starts counting the working time in seconds.
 - John announces, "{name} is working now."
 - If the employee's face is not detected, the system does nothing.



- **Step 3: Monitoring and Time Tracking**

1. The system continuously checks if the employee's face is detected.
2. After **60 seconds** of continuous face detection, the system stops monitoring. The camera turns off, and a message appears saying **"Stop working"**

