Meeting Minutes

Date: June 27, 2023
Time: 10:00 AM - 11:00 AM
Location: Beijing University of Posts and Telecommunications, Shahe Campus Library
Participants:

- Li Tianzhi - Meeting Facilitator
- 3 students from the Internet of Things Engineering program
- 5 students from the Telecommunications Engineering and Management program
- 1 student from the E-commerce and Law program

Agenda:

1. **Meeting Kickoff and Introductions (10 minutes)**

   Li Tianzhi welcomed everyone to the meeting and requested each participant to provide a brief self-introduction, including their name, area of expertise, and assigned tasks.

2. **Task Assignment and Discussion (40 minutes)**

   Tasks for Telecommunications Engineering and Management Program: Design and Build Automated Robot Hardware

   - Task 1: Explore walled mazes.
   - Task 2: Stop at treasure locations inside the maze and take photos.
   - Task 3: Exit the maze and return to the starting position.
   - Task 4: Record exploration and store information about other system components.
   - Extra Feature 1: Explore more complex mazes (e.g., larger mazes with multiple branches).
   - Extra Feature 2: Design additional functionality independently.

   Tasks for Internet of Things Engineering Program: Object Detection Software

   - Task 1: Collect image samples of three selected objects (used as treasures).
   - Task 2: Train/calibrate the object detection algorithm using the samples.
   - Task 3: Develop a simple GUI to demonstrate the accuracy of the trained algorithm.
   - Task 4: Run the object detection algorithm on images from the robot and fine-tune it for better accuracy.
   - Extra Feature 1: Achieve real-time object detection at a reasonable frame rate.
   - Extra Feature 2: Design additional functionality independently.

   Tasks for E-commerce and Law Program: Database Management and Network Visualization

   - Task 1: Design a database and create a web application with the following features:
     - Allow users to link their accounts to the robot.
     - Display real-time data from the robot during its exploration (e.g., maps, images).
     - Visualize exploration records post-robot exploration (e.g., average maze exploration time, treasure statistics, robot image list).
   - Extra Feature 1: Explore data import and export.

- Extra Feature 2: Design additional functionality independently.

3. Next Steps (5 minutes)

Li Tianzhi summarized the key points of the meeting.

Emphasized the date (about two months later) and agenda for the next meeting.

Each member clarified the tasks they need to complete before the next meeting.

4. Meeting Conclusion (5 minutes)

Li Tianzhi thanked everyone for their participation and adjourned the meeting.