**Robo-Phantoms Meeting Minutes**

**Date**: September 23, 2023.

**Time**: 5:00 PM - 6:00 PM.

**Type of Meeting**: Online.

**Meeting Facilitator**: Mr. Srinath Madasu. (Coach 1)

**Attendees**:

1. Ajay Muthukumar.
2. Dhruv Shah.
3. Kavin Shankaran.
4. Kayan Patel.
5. Srilakshminath Madasu.
6. Subha Annamalai. (Coach 2)

**Agenda**:

1. Review of Logo design for the team Robo-Phantoms.
2. Review of Keychain design.
3. Android Studio installation.
4. Signup and download GIT Repository.
5. Discussion on the directory structure in the GitHub.
6. Discussion on coding to run the motors using Rev control hub.
7. Tasks for the upcoming week.

**Discussions and Decisions**:

1. **Review of Logo design for the team Robo-Phantoms:**

All the team members shared their draft version of the Logo design.

**Decision(s):** Team members were asked to upload the logos in the GitHub under the documentation > Logos folder. Decision was made to choose a final logo at a later time.

1. **Review of Keychain Design:**

Srilakshminath Madasu, Kayan Patel, Ajay Muthukumar, Harsh Desai, Dhruv Shah shared their keychain design with their logo design on it. They used Autodesk Fusion 360 to do it. Harsh Desai had issues with Fusion 360 installation. So, he used Tinker CAD instead.

Ajay Muthukumar mentioned that he had alignment issues with the design when using Fusion 360.

**Decision(s):** Team members were asked to upload the keychain design in the GitHub under the documentation>Logos folder. Decision was made to choose a final keychain design at a later time.

1. **Review of Android Studio Installation:**

The coach posted the Android Studio installation guide on the slack channel, and demonstrated to the team on the steps to install it on their computers.

1. **Signup and Download GIT Repository:**

The team was asked to create a GitHub account, and download the FTCRobotController Source code from <https://github.com/FIRST-Tech-Challenge/FtcRobotController> . This repository contains the sample code for running the motors.

1. **Discussion on the directory structure in the GitHub:**

The coach briefed the team about the repository in the GitHub (<https://github.com/srinathmadasu76/FTC_2023>) which the team will use as a repository for code exchange and versioning. This will also be used for technical documentation, build designs, and others that will be developed by the team pertaining to the CENTERSTAGE challenge.

1. **Discussion on coding for Motors:**

The Coach outlined the file structures in Android Studio to write a Java Code. The team was asked to write the code to run the motors and build it before the next meeting.

1. **Tasks for the Upcoming Week(s):**
2. Game Analysis: The team was asked to read the game manual, and come up with game strategy individually. They were also asked to complete the game analysis document.
3. Research: The team was also tasked with researching the various mechanisms to build a robot.
4. **Announcements:**

The coach announced the arrival of the GoBilda motors and the Rev Robotics controller set.

1. **Open Issues:**

* Pending approvals on Autodesk Fusion 360 for Annual usage.
* Fine tuning of the logos and keychain designs, and finalizing the same for the team.

1. **Action Items:**

* Game Analysis - All Members - Due on Sep 30, 2023.
* Research and Present on the below topics Due on Oct 8, 2023.
  + Drive Trains by Dhruv Shah.
  + Power Transmission by Kayan Patel.
  + Odometry / Road Runner by Harsh Desai.
  + Arm Mechanism by Srilakshminath Madasu.
  + Intake/Outtake Transfer Mechanism by Kavin Shankaran.
  + Easy OpenCV by Ajay Muthukumar.

1. **Next Meeting Date:**

The next meeting will be held online on September 30, 2023 at 5:00 PM.

**Minutes Prepared By:**

Mrs. Subha Annamalai.