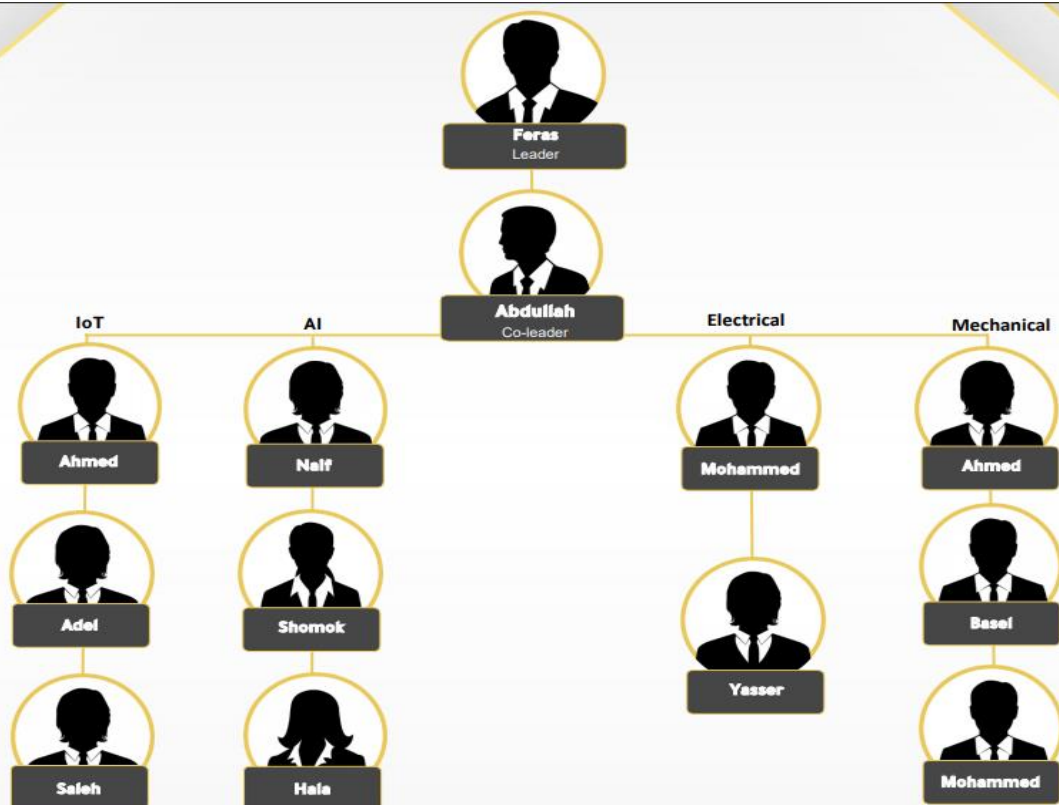


-TEAM ORGANIZTIONAL CHART

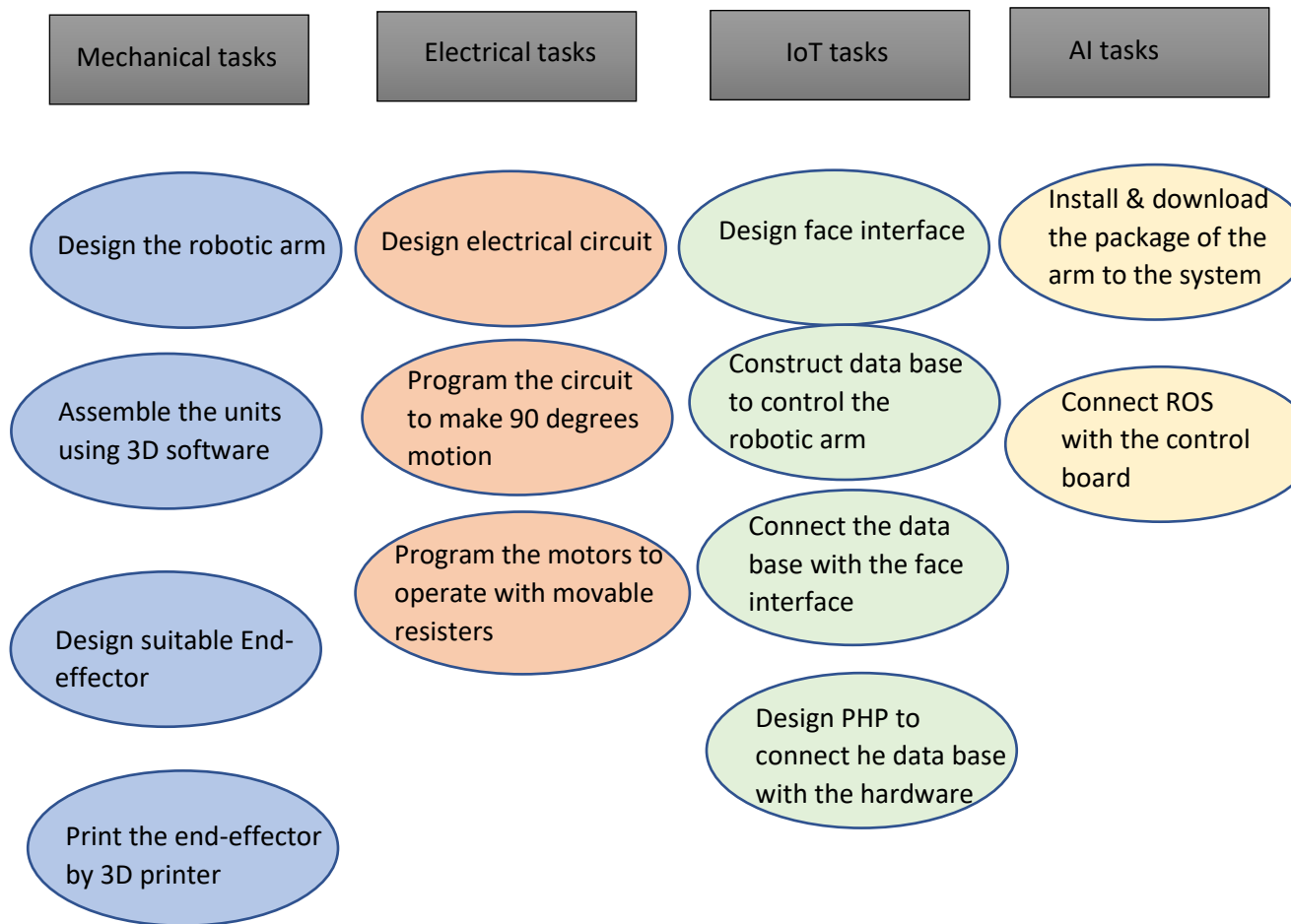


TEAM ORGANIZTIONAL CHART

-Project Plan

- Analysis & mechanical design for robotic arms.
- Determining the right motors for the robotic arms.
- Structural the programing of the robotic arms using ROM system.
- Design the automatic control using IOT principles.
- Mechanical design of the robotic moving base & analyze the mechanical motions.
- Build & design the brush.
- Construct vision systems in the robot
- Design control board of the robot.
- Measure the frequency & the disturbance as well as the overall quality.

- Tasks distribution



Team Time Line															
Major	Days	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Mechanical		Design the robotic arm				Assemble the units using 3D software				Design suitable End-effector			Print the end-effector by 3D printer		
Electrical						Design electrical circuit			Program the circuit to make 90 degrees motion			Program the motors to operate with movable resisters			
IoT		Design face interface			Construct data base to control the robotic arm				Connect the data base with the face interface			Design PHP to connect he data base with the hardware			
AI						Install & download the package of the arm to the system				Connect ROS with the control board					

- Production line

Determining the assembly method for the robot	
1- assemble the parts of the robot on a 3D software 2- design an end-effector 3- print the end-effector using a 3D printer	3D printer



Criteria of assembly	
First using a software	Then applying it on the workshop



Testing the functionality of the robot in the workshop and fixing technical issues if any



Final step for the robot to be launched	
Will be informed by the training instructors later on	Duel robots will be there to stand on the quality of the work that has done by the teams