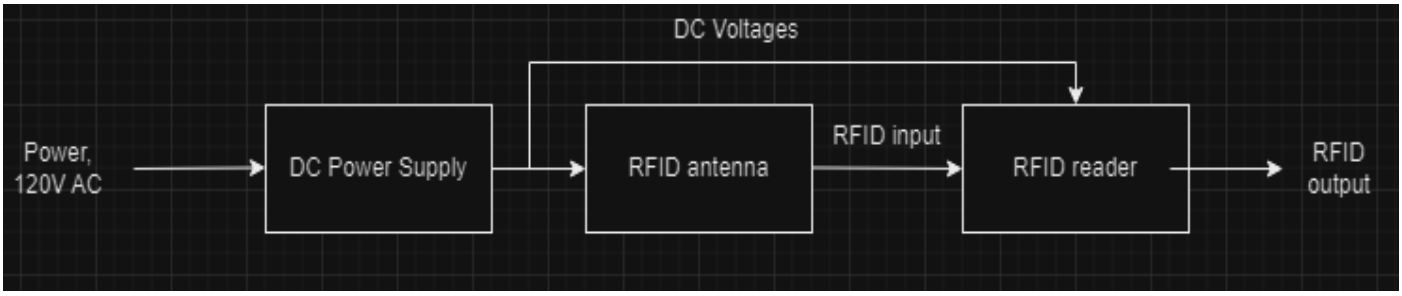
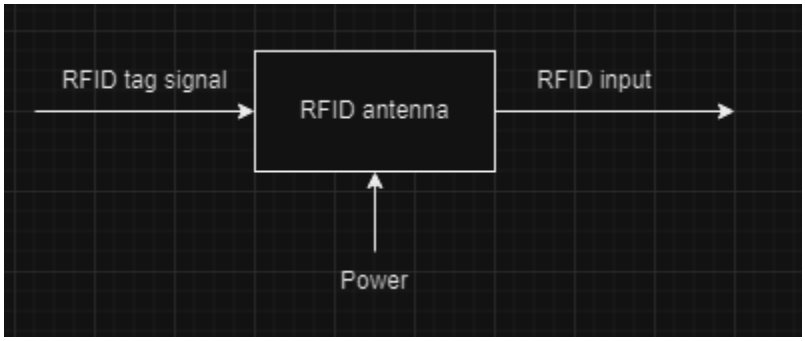
RFID Reader: Level 0

Module	RFID
Inputs	RFID input Power: 120V AC, 60Hz
Outputs	RFID output
Function	To recognize the RFID tags which is put on the pet, so the feeder only feed the tagged one.

RFID Reader: Level 1

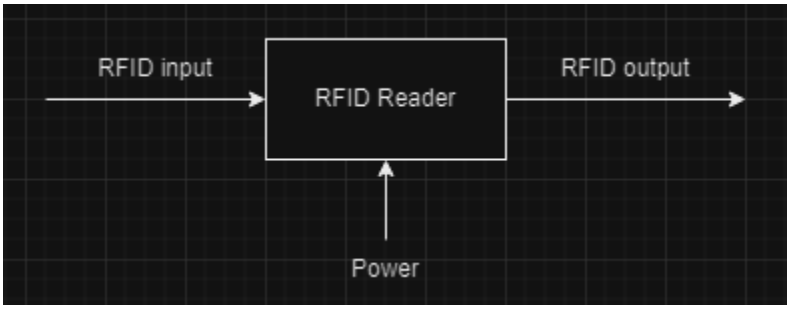


RFID Antenna: Level 1



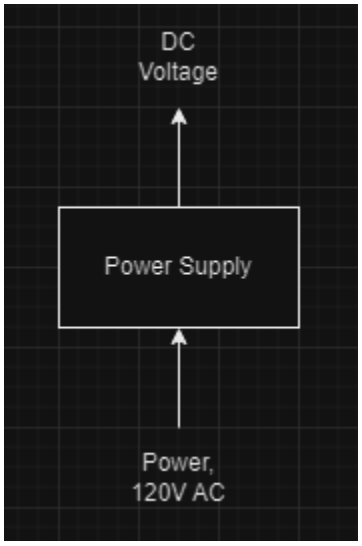
Module	RFID antenna
Inputs	RFID tag signal Power: 12V 2A
Outputs	RFID input
Function	The RFID antenna finds the signal from the RFID tags then provide the RFID input for the reader.

RFID reader: Level 1



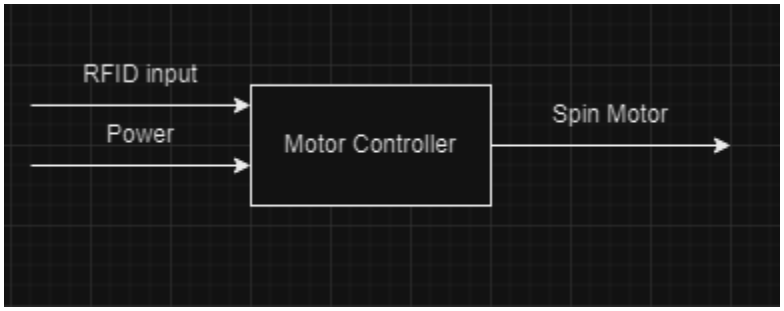
Module	RFID Reader
Inputs	RFID input Power: 12V 2A
Outputs	RFID output
Function	The RFID reader will get the RFID input from the RFID antenna then provide the RFID output to the processor.

Power Supply: Level 1



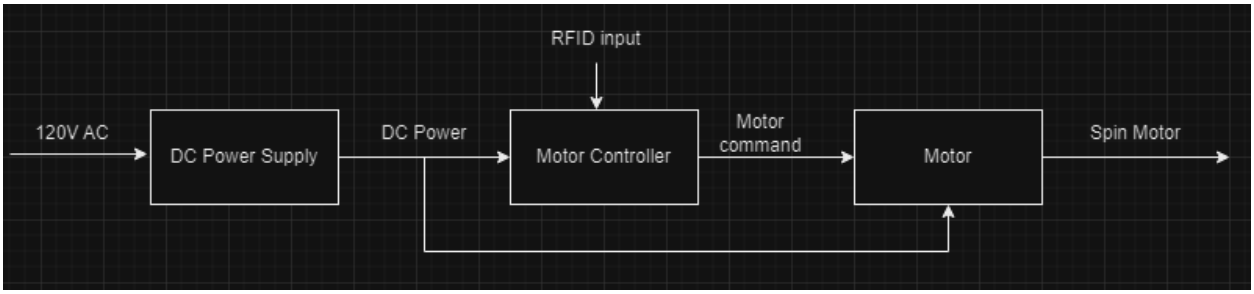
Module	Power Supply
Inputs	Power: 120V AC
Outputs	Power DC
Function	Convert AC wall outlet voltage to DC output voltages.

Motor Controller: Level 0

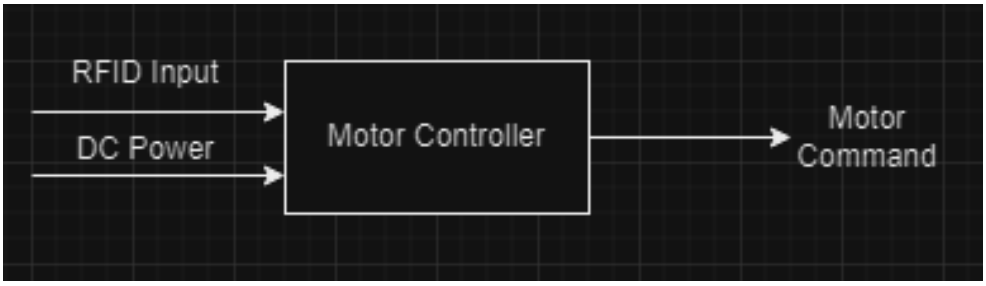


Module	Motor Controller
Inputs	RFID Input Power: 12V 2A
Outputs	Spin Motor
Function	Receive RFID input from RFID reader then send signal to the motor controller, which will send command to spin the motor.

Motor Controller: Level 1

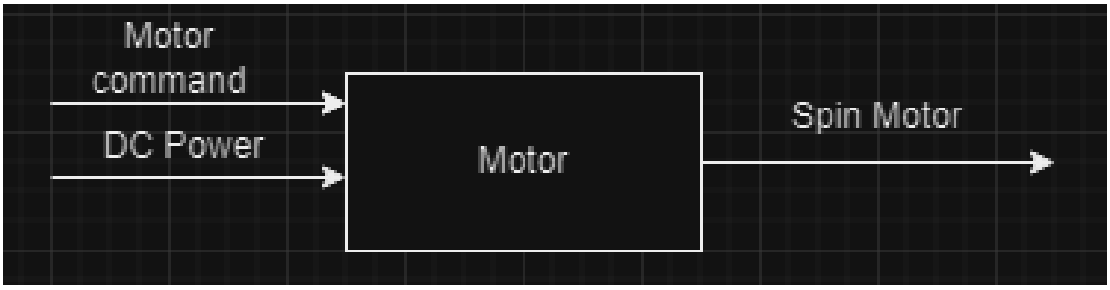


Motor Controller: Level 1



Module	Motor Controller
Inputs	RFID Input Power: 12V 2A
Outputs	Motor Command
Function	Receive RFID input from RFID reader then send command to the DC motor.

Motor: Level 1



Module	Motor
Inputs	Motor Command Power: 12V 2A
Outputs	Spin DC Motor
Function	Receive Motor Command from Motor Controller then spin when received command.