GOVERNMENT COLLEGE OF ENGINEERING KANNUR

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

# MINI - PROJECT

SUBMITTED BY

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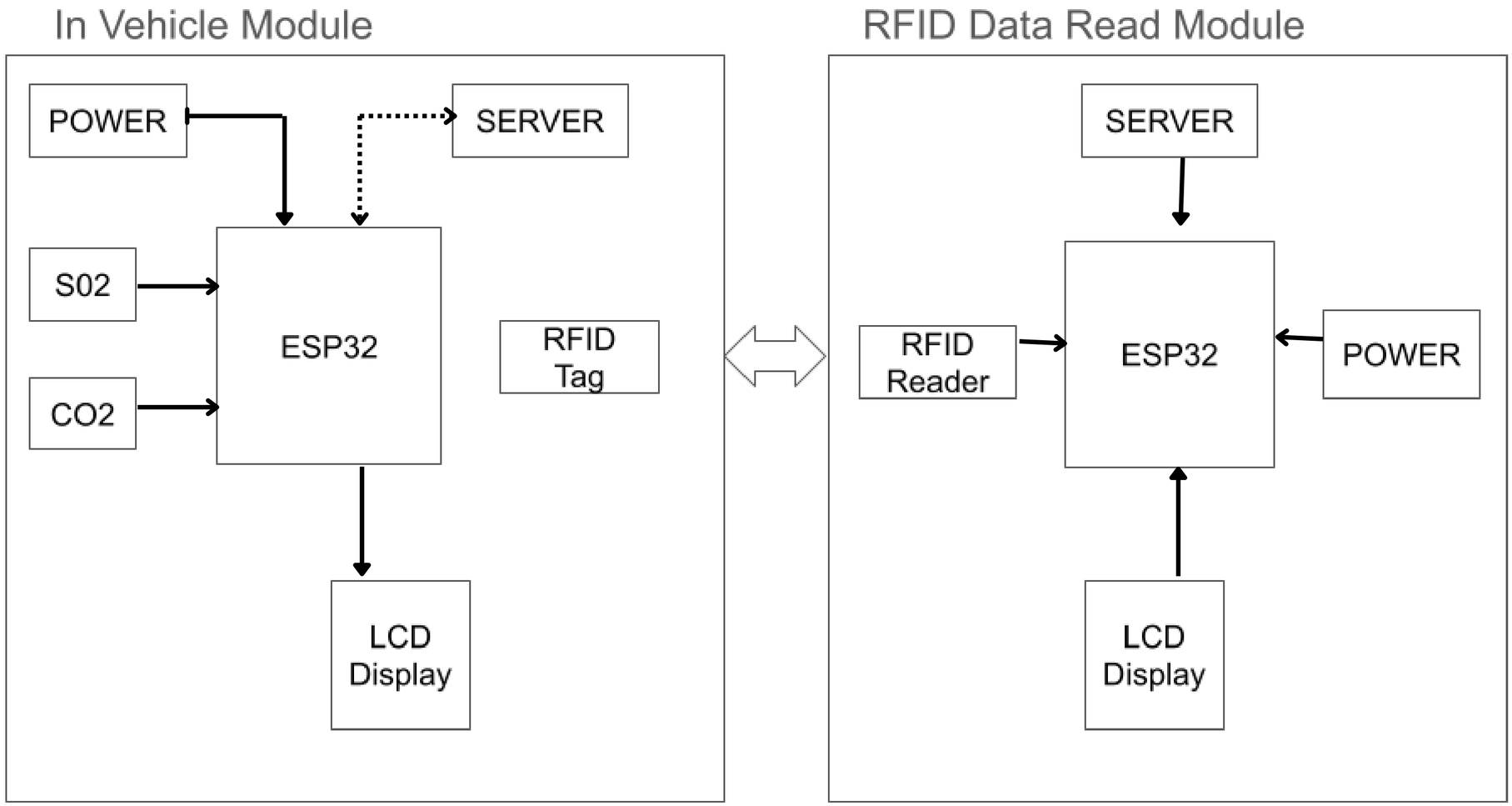
# IoT BASED VEHICULAR POLLUTION MONITORING SYSTEM

# INTRODUCTION

- The main source of atmosphere pollution happens due to vehicles.The high inflow of vehicles in urban areas cause air pollution and decrease air quality leads to severe health diseases

- The main objective is to introduce vehicular pollution monitoring system using Internet of Things (IoT) which is capable of detecting vehicles causing pollution by measuring the various types of pollutants, and its level

# BLOCK DIAGRAM



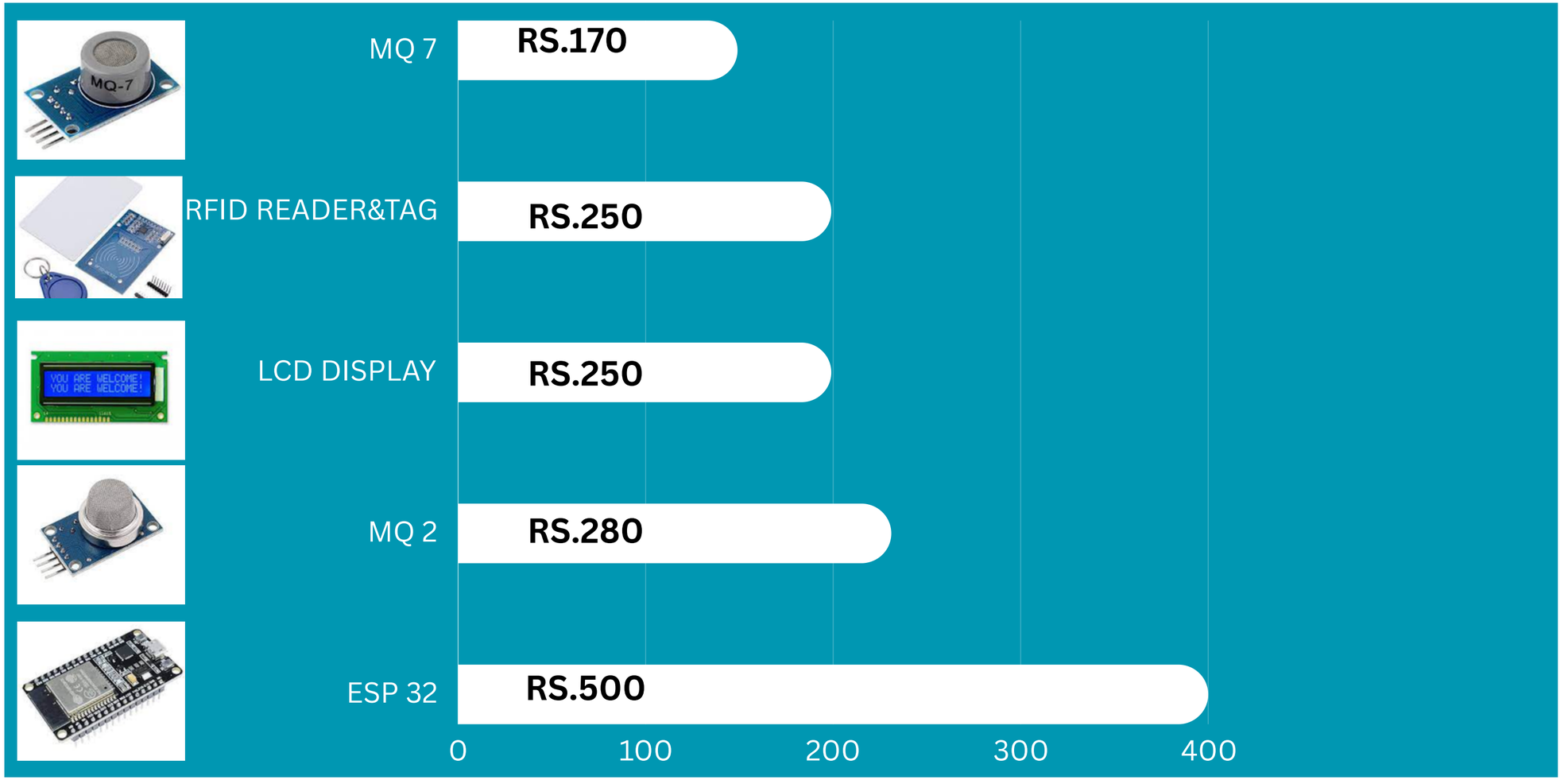
# HARDWARE

- ESP 32
- LCD DISPLAY
- RFID READER
- MQ 7 GAS SENSOR
- MQ 2 GAS SENSOR

# SOFTWARE

- ARDUINO IDE
- TWILIO-Send message
- XAMPP-Database

# COST ESTIMATION




**TOTAL ESTIMATED COST: RS 2250**

# TIMELINE

**FEBRUARY**

- **Week 1: Project planning**
- **Week 2:Abstract submission**
- **Week 3: Supervisor, technical staff finalization**
- **Week 4:Zeroth presentation**

**MARCH**

- **Week 1: Completion of design**
- **Week 2:Purchase of components**
- **Week 3: Implementation of design**
- **Week 4: Testing of design**

**APRIL**

- **Final presentation and demonstration**

# THANK YOU!