

# **FLOOD MONITORING AND EARLY WARNING SYSTEM**

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Phase 4 : Development Part -2

# INTRODUCTION

## PHASE 2 : DEVELOPMENT PART - 2

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- In this part you will continue building your project.
- Continue building the project by developing the flood monitoring and early warning system information platform.
- Use web development technologies (e.g., HTML, CSS, JavaScript) to create a platform that displays real-time water level data and flood warnings.
- Design a platform to receive and display water level data from IOT sensors and issue flood warnings when necessary.



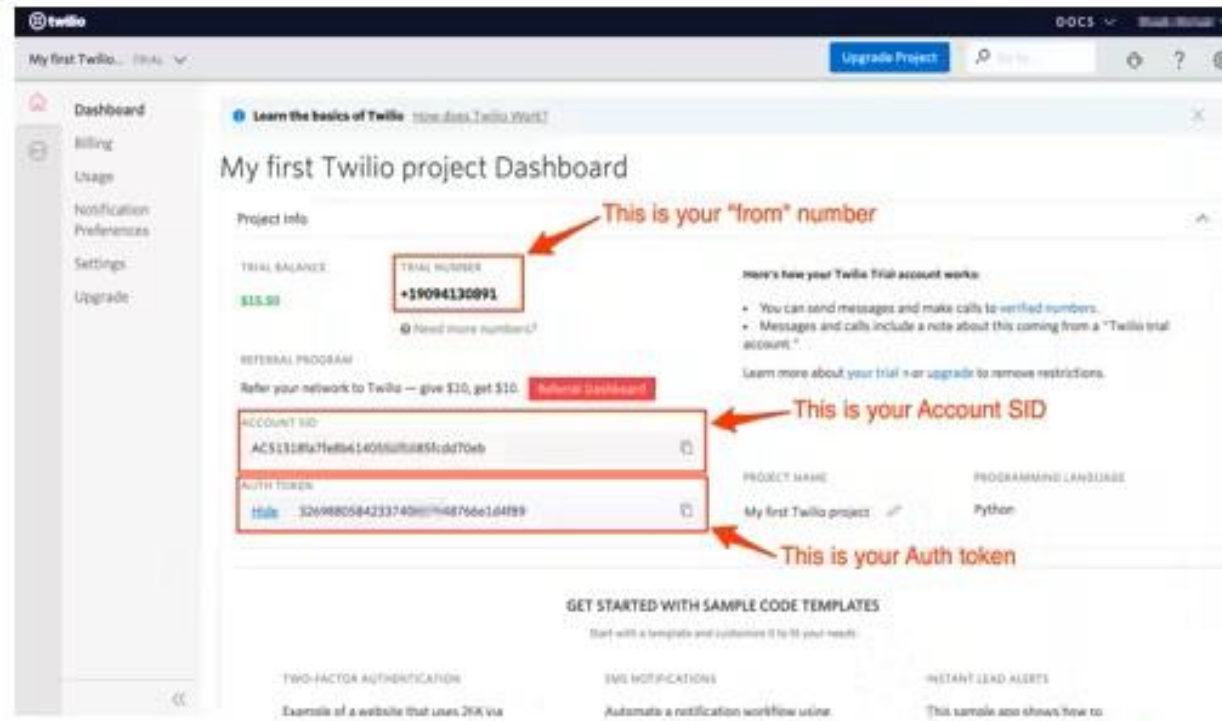
# WEB PLATFORM TO DISPLAY REAL TIME DATA

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## Technologies Used:

- ✓ HTML
- ✓ CSS
- ✓ Java Script
- ✓ Angular Framework

# SCREENS FROM THE WEB PLATFORM

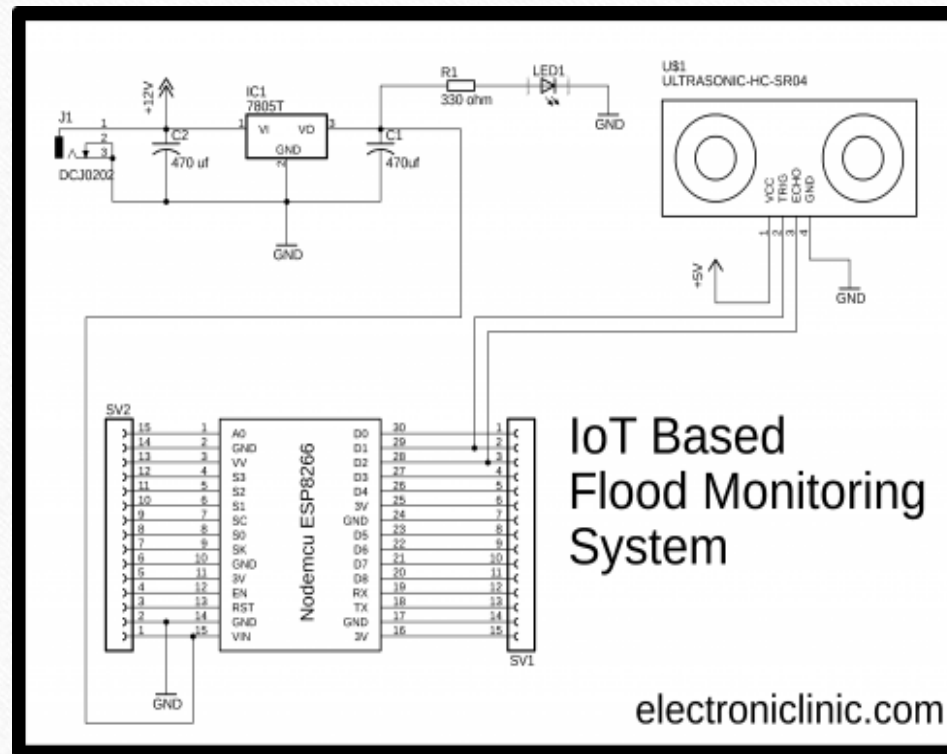




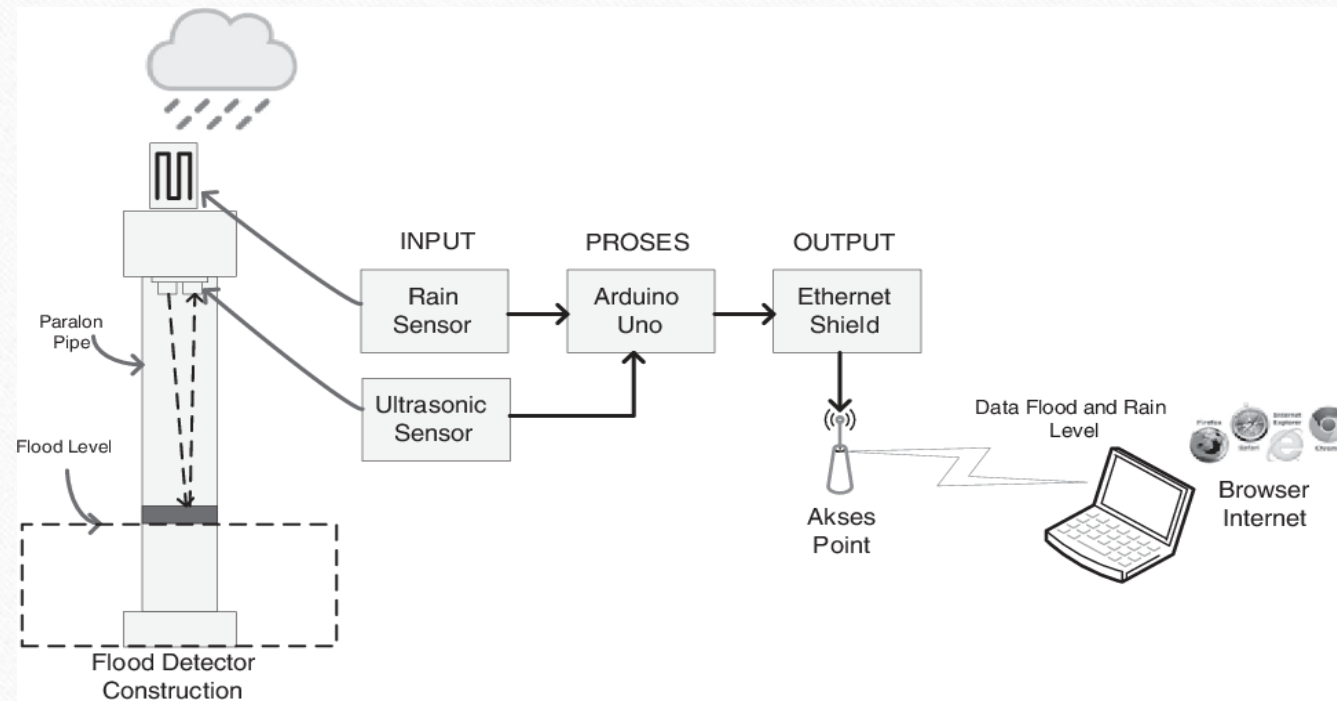
# SCREENS FROM WEB PLATFORM

The screenshot displays the Mailgun web platform interface. On the left is a dark sidebar menu with the Mailgun logo and navigation links: Dashboard, Sending (selected), Overview, Domains, Logs, Analytics, Templates, Suppressions, Webhooks, IPs, Mailbox info, Domain settings, Receiving, Validation, Inbox Placement, Support, and Settings. The main content area is titled 'Overview' and shows a 'Sandbox' URL: `sandbox5d4e7c7a6b04556b55779854bc57168.mailgun.org`, highlighted with a red box and labeled 'This your Sandbox URL'. Below this are two cards: 'API' (described as the most flexible and popular way to send email) and 'SMTP' (described as the easiest way). A note states 'Sandbox domains are restricted to authorized recipients only.' and asks 'Which language do you want to use?' with tabs for curl, Python (selected), Java, Go, Ruby, PHP, C#, and Node.js. The 'API key' is shown as `4e330c7e0a89a13360c66a0eb44c44-c8a89e8e-37c88e24`, highlighted with a red box and labeled 'This is your API key'. Below the API key is the 'API base URL' and a code block for a Python script. On the right, there's a 'Feedback' button, a 'Verified Recipients' section with a 'Send' button, and a list of authorized recipients including API keys, Mailbox owner, API documentation, Postfix, Mail Tester, SandboxScore, MailboxInfo, and HTML email templates.

# CIRCUIT DIAGRAM FOR FLOOD MONITORING AND EARLY WARNINGS



# DESIGN OF FLOOD MONITORING BASED ON INTERNET OF THINGS (IOT)



**Figure 1**  
Block Diagram  
Prototype System



# APPLICATIONS

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- The system has a wifi connectivity, thus it's collected data can be accessed from anywhere quite easily using IoT.
- To detect a flood the system observes various natural factors, which includes humidity, temperature, water level and flow level.



# THANK YOU!!!

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