



**Team 11**

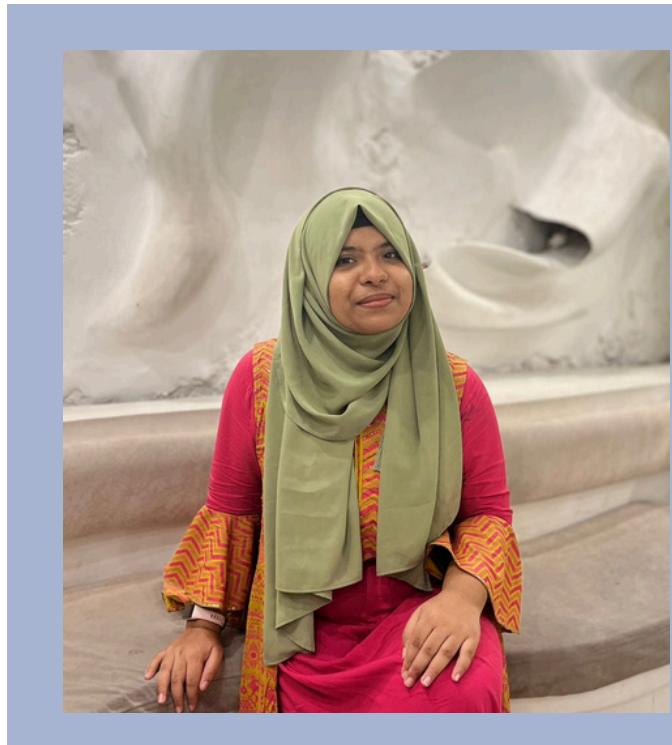
# **Pub/Sub IPC**

**CSE 4502 Operating Systems Lab**

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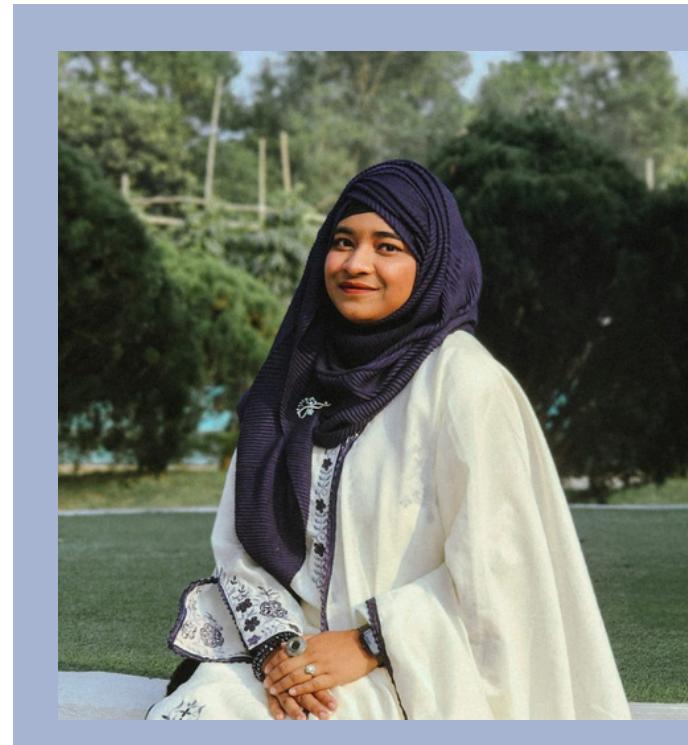
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# Team Information



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# PROJECT OVERVIEW

A Pub/Sub IPC enables asynchronous, decoupled messaging among processes, widely used in **ROS**.

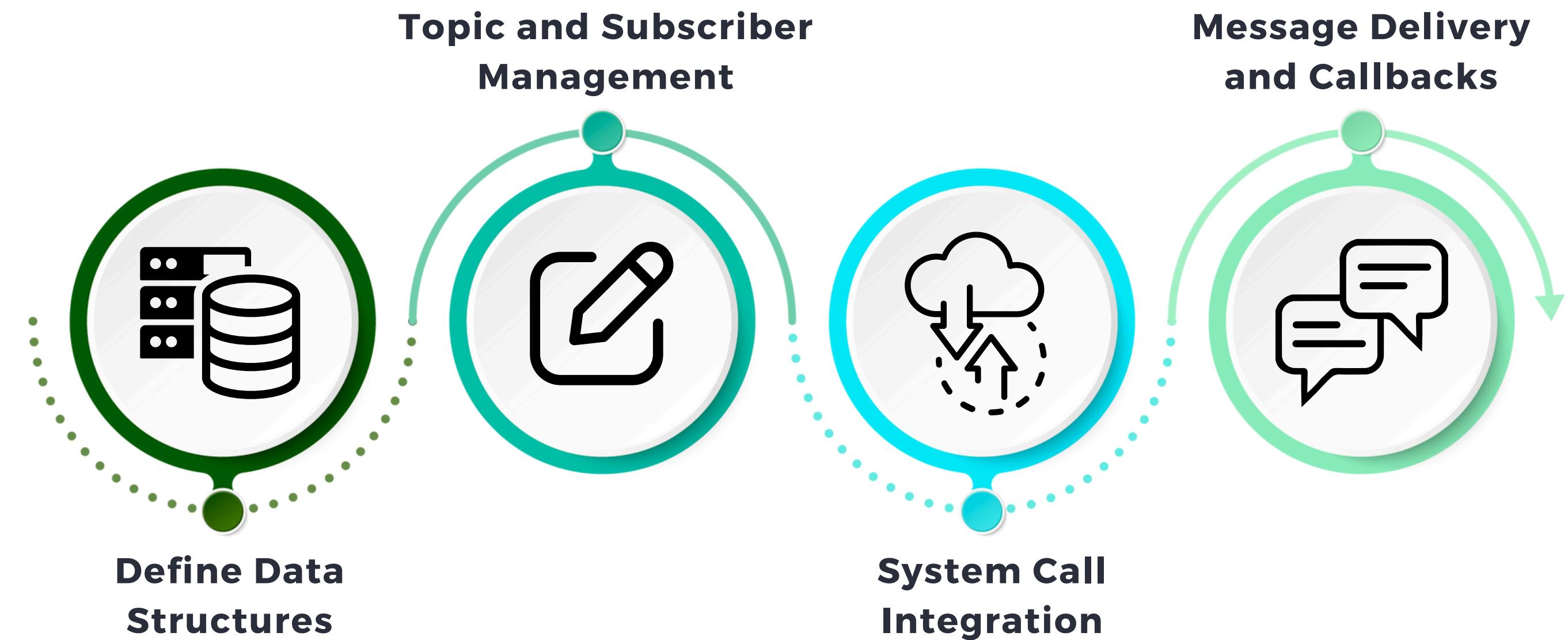
Publishers send messages to all active subscribers of a topic, ensuring non-blocking delivery.

# Goal of our Project

- Topic-Based Messaging
- Non-Blocking Message Broadcasting
- Efficient Message Handling
- Streamlined System Call Interface
- Trap-Based Callback Execution



# Implementation Plan



# Prominent Functions

## Core Functionalities

- `sys_sub()`
- `sys_pub()`
- `sys_unsub()`

## Subscribers and Publishers

- `topic_subscribe()`
- `topic_unsubscribe()`

# Thank You!