UML Diagram – Reminder Microservice

User

Main Program

Reminder Service (port 5555)

STARTUP

- Launch mainprogram.py
- Login (username / password)
- Authentication result (success / fail)

CREATE REMINDER

- Select Option 8 → enter title + datetime (YYYY-MM-DD HH:MM)
- send_json({"action": "create", "userId": user, "title": title, "datetime": "YYYY-MM-DD"})
- *Assigns ID, records created_at Appends to reminders list*
- recv_json({"status": "success", "reminder": {"id", "title", "datetime", "created_at"}})
- Display: Reminder created! (ID, title, scheduled time)

GET REMINDERS

- Select Option 9 → view my reminders
- send_json({"action": "get", "userId": user})
- *Filters reminders list by userId*
- recv_json({"status": "success", "reminders": [{id, title, datetime}, ...]})
- Display: numbered list of reminders (title, datetime, ID)

CHECK DUE REMINDERS

- Select Option 10 → check due reminders
- send_json({"action": "check_due", "userId": user})
- *Compares each reminder datetime to now() Returns those within a 5-minute window*
- recv_json({"status": "success", "due_reminders": [{...}, ...]})