Roles & terminology

- **Requester**: employee who runs REQUEST <BranchId> to contact another branch.
- Assignee: employee in the target branch who receives a chat request offer and runs ACCEPT.
- **Session**: a single terminal connection (identified by sessionId).
- Chat: created only after an assignee accepts an offer. Identified as CHAT-####.

Lifecycles & timers

1. Request

- REQUEST <BranchId> [optional note...] queues a request from your branch to the target branch.
- If someone in the target branch is *idle*, the request is offered to them immediately.
- A dedupe key ensures you cannot spam the same branch: one active attempt per (employee, sourceBranch, targetBranch).

2. Offer (60s)

- They must run ACCEPT within **60 seconds**. Otherwise the offer expires, the employee goes back to idle, and the request offered to the next idle employee.

3. Chat created

- On ACCEPT, a chat is created (e.g., CHAT-1001). The assignee is joined and becomes busy.
- The requester receives: [<targetBranch> ACCEPTED] ChatID: CHAT-1001. Run: BEGIN CHAT-1001 within 60 seconds.

4. Requester join (60s)

- The requester must run BEGIN < Chatld> within **60 seconds**.
- If they fail, the chat is cancelled and the assignee goes back to idle. The request is retried up to 2 misses;
 after that it is cancelled.

5. Active chat

- Once both sides are joined, use SEND <message> to chat.
- Anyone allowed may JOIN <ChatId> later (original requester/assignee by employeeId; shift managers of either chat branch).
- Use CHAT_HISTORY to print the history on your terminal.

6. Leaving / Solo timer (120s)

- LEAVE_CHAT removes your session from the current chat and returns you to **idle**.
- If only one side remains, the system posts a system message and starts a 120s solo timer; if nobody rejoins in time, the chat auto-ends.

7. Ending

- END_CHAT ends the chat for **everyone** immediately.
- o Before ending, the client may optionally save history via yes/no (prompted).

Who can join an existing chat?

- Original requester (by employeeId, disconnect)
- Original assignee (by employeeId)
- **Shift manager** of either participating branch.

Presence & idling

- On login, each session is registered and set idle by default.
- When a session joins a chat, it becomes **busy** and is removed from the idle pool.
- When leaving/ending, the session returns to **idle** if not participating in other active chats.