|  |  |
| --- | --- |
| **Customer** | |
| **Responsibilities** | **Collaborators** |
| Knows Name, Phone No and Number of people for the party | QueueHandler |
| Signs up for waitlist on the QueueHandler | Receiver |
| Responds with Confirm/Leave to Receiver when a table is available |  |
| Messages to stop receiving messages from QueueHandler |  |

|  |  |
| --- | --- |
| **QueueHandler** | |
| **Responsibilities** | **Collaborators** |
| Adds a customer to the Queue of receivers when a customer makes a request. | Customer |
| Receives message from TableHandler that a table is available. | TableHandler |
| Signals chain (queue) of receivers with the available table and it’s quantity. | Receiver |
| Receives message from Receiver when a customer Accepts. Deletes receiver object. Informs TableHandler that the table is booked. |  |
| Deletes corresponding customer object from Receiver queue when a customer sends Stop message. |  |

|  |  |
| --- | --- |
| **TableHandler** | |
| **Responsibilities** | **Collaborators** |
| Knows the available and occupied tables with their capacity | QueueHandler |
| Informs QueueHandler when a table becomes available |  |

|  |  |
| --- | --- |
| **Receiver** | |
| **Responsibilities** | **Collaborators** |
| Knows a waitlisted customer with name, phone and required capacity. | Customer |
| Knows the successor Receiver object if customer does not accept. | QueueHandler |
| Receives a message from QueueHandler or it’s predecessor when a table is available |  |
| Notifies the customer with available table and it’s capacity |  |
| If customer Accepts the request it informs QueueHandler. |  |
| If customer leaves the request then sends message to successor. |  |