CSC 581 Final Presentation:

Handyman on Demand

Group 1:

Ananya Kakumanu
Christian Quintero
Cole Allen
Lokesh Purohit
Malika Hafiza Pasha
Sajeel Mohammed Abdul
Shoaibuddin Mohammed

Overview - Handyman App

- This is an app designed so that customers can easily find, schedule, and pay handymen to complete jobs.
- Handymen can sign up and advertise their services; customers can sign up and search for handymen.
- When a customer finds a suitable handyman, the former may create a service request to the latter, containing images of the assignment, detail about the job, and availability.
- The handyman can then view the request and send a quote.
- Once the customer agrees to a quote, the appointment is scheduled; once the job is completed, payment may be completed through the app or via cash or check in person.

Actors

Primary Actors:

- Handyman - performs services
- Customer - purchases services
- Admin - oversees users and services
- External Database - stores user data
- Third Party Payment Handler - processes electronic payments

Secondary Actors

- Building Manager/Inhabitant - directs and informs handyman
- Security Guard/Clerk/Desk Attendant - directs and grants access to handyman

Functional Requirements

- **User Registration and Authentication**
  - Customers and handymen who provide the required information can create accounts.
  - Email verification for account activation should be supported by the app.
  - Users ought to be able to securely log in with their credentials.

- **Handyman Profile**
  - The ability to create and administer an account should be available to handymen.
  - The ability to list the services provided, the hourly prices, the service locations, and the availability.
  - Upload your profile photo and any necessary credentials.

- **Service Request Creation**
  - Customers can create service requests, detailing the task and, if necessary, adding images.
  - Indicate the appointment's desired time and date.
  - Choose the required service type from a list that has been predetermined.

- **Service Quotation**
  - A handyman can browse work information and images and accept service requests.
  - Based on the information given, provide a repair estimate.
  - Provide the customer with the quotation for evaluation.

More Functional Requirements

- **Appointment Management**
  - Customers can evaluate repair quotes they have received and select a handyman based on the quotes they have received.
  - Verify the service and arrange a time to meet with the chosen handyman.
  - Appointments should be confirmed and alerts sent to the handyman.

- **Payment Processing**
  - Customers should be able to safely use their credit card information to pay for the service.
  - Manage payment confirmation and offer receipts for payments.

- **Notification System**
  - Establish a system of alerts to inform users of service requests, estimates, appointment confirmations, and reminders.

- **Feedback and Ratings**
  - Encourage clients to comment and rate the work that has been done.
  - Show the average ratings given to each handyman based on client comments.

Even More Functional Requirements

- **Search and Filters**
  - Make it possible for customers to look for handymen based on the services they offer, their location, and their ratings.
  - Use filters to enhance search results.

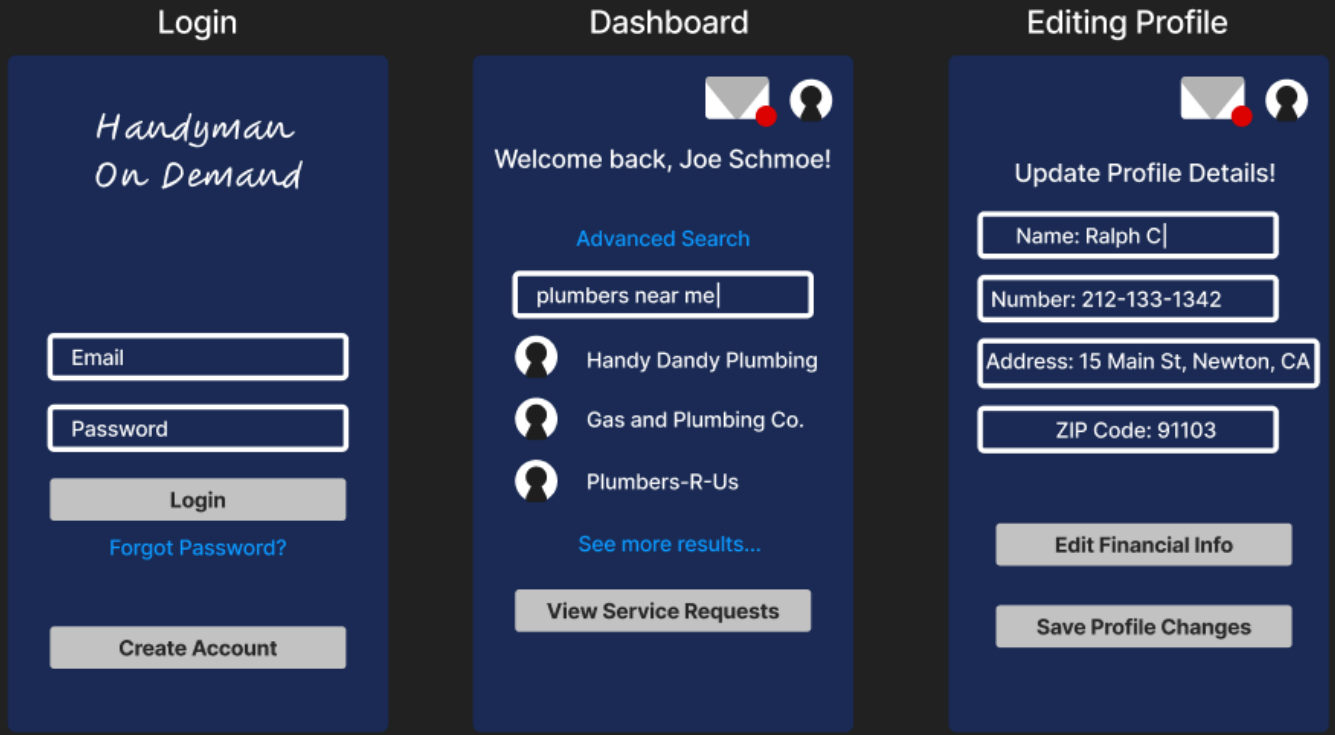
- **Messaging System**
  - Establish a messaging system that enables handymen and clients to communicate about service specifics, appointment scheduling, etc.

- **Profile Management**
  - Users should have the opportunity to amend their profiles, change availability, and update contact information as well as service specifics.

- **Admin Dashboard**
  - Offer a dashboard for administrators to manage users, resolve conflicts, keep an eye on activity, and produce reports.

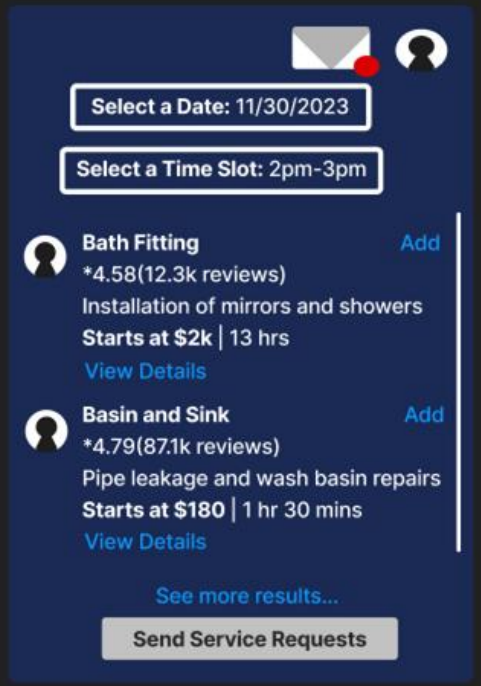
- **Appointments History**
  - Keep a record of all handymen and client appointments, including past and future appointments.

User Interface Concepts

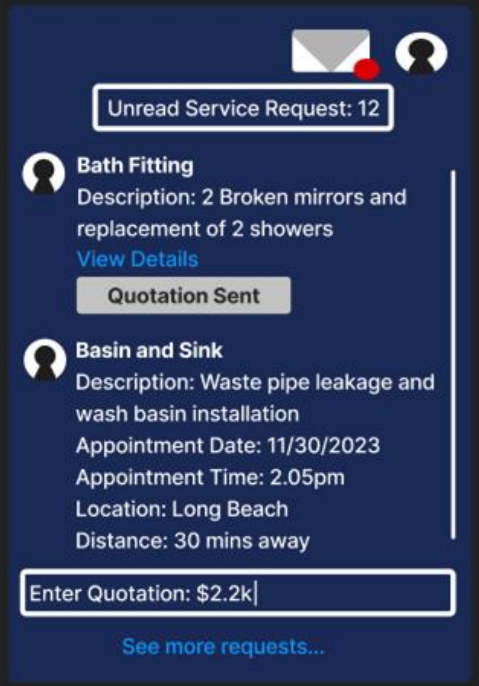


User Interface Concepts (Continued)

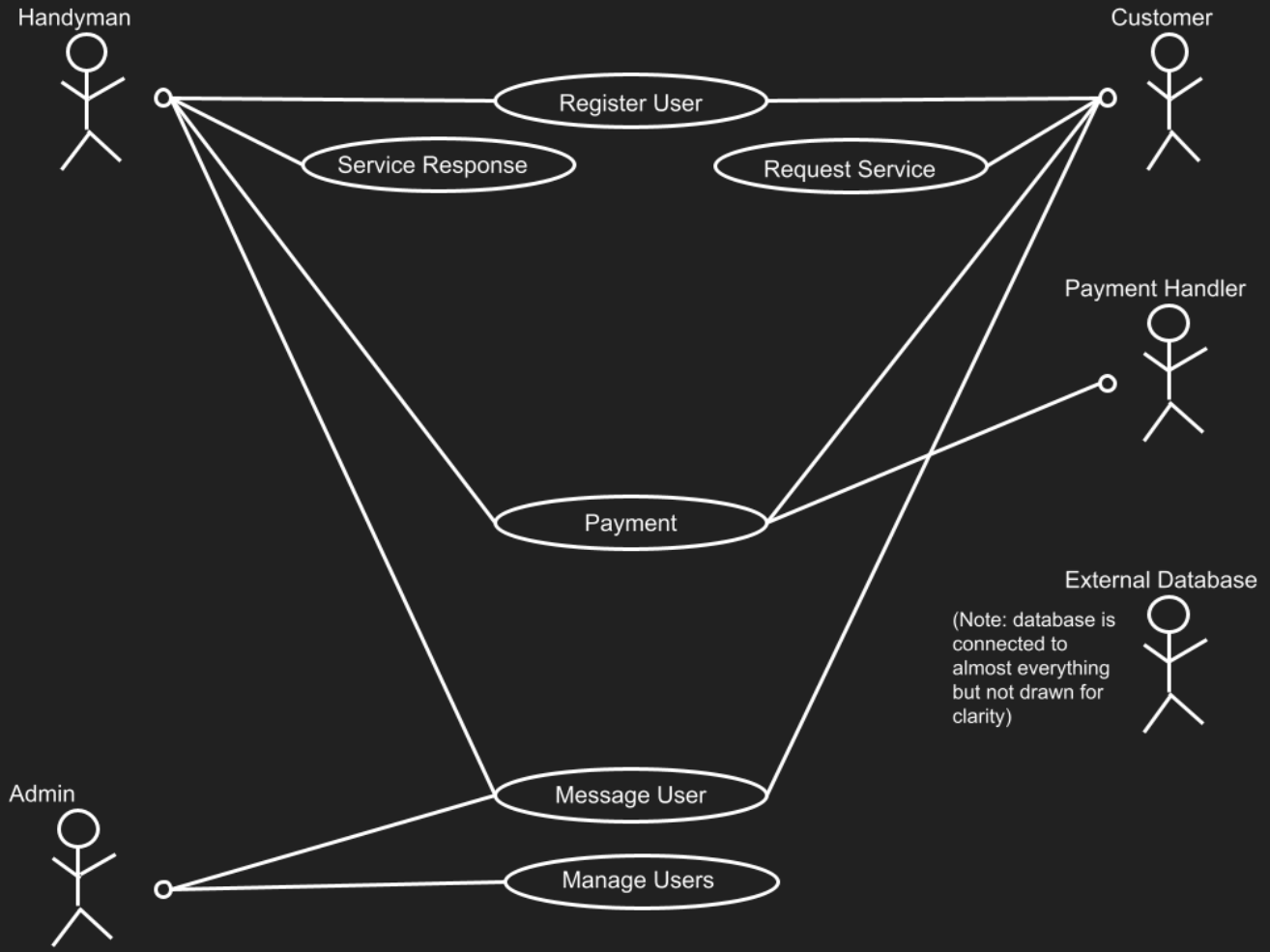
Creating Request



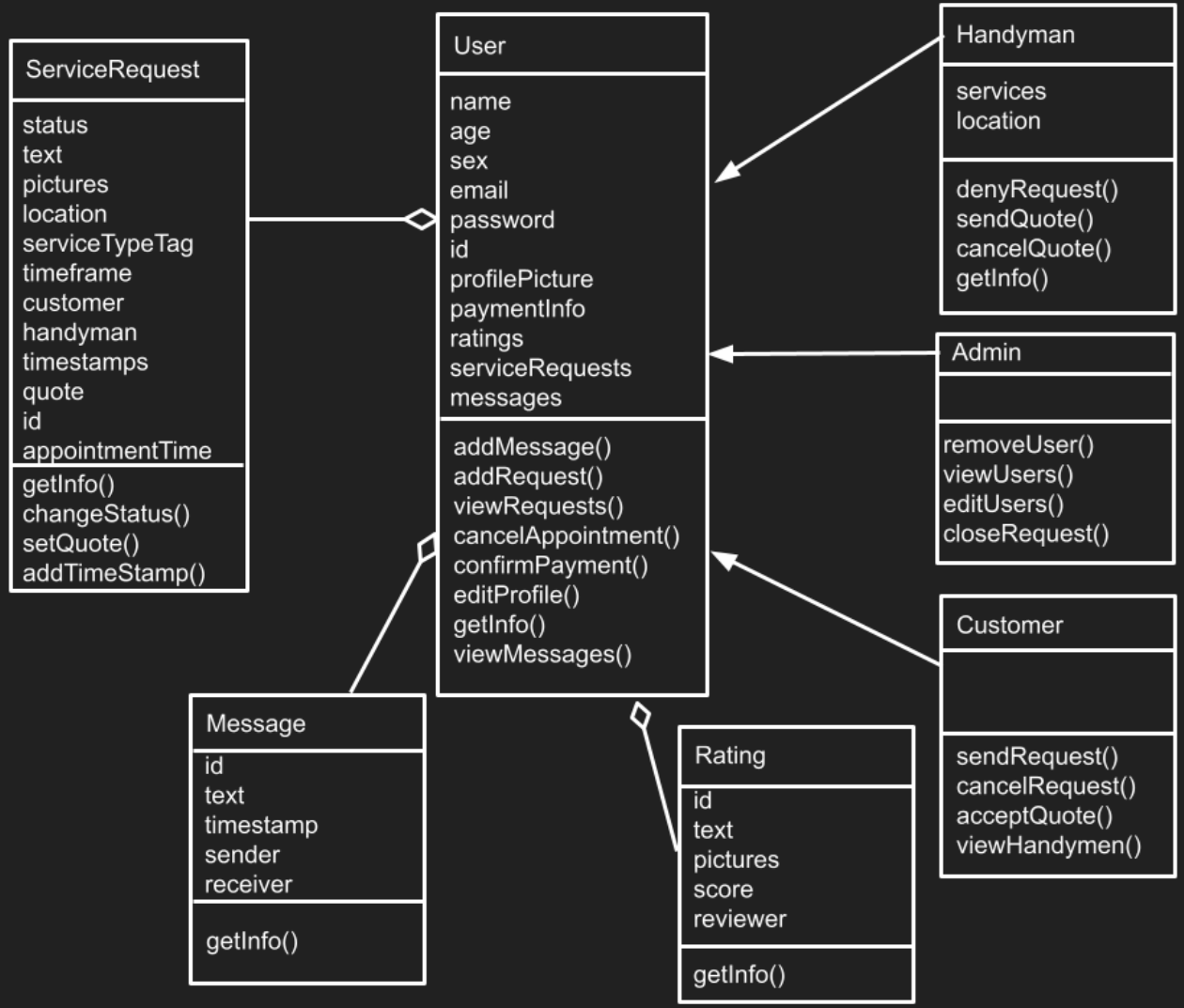
Service Response



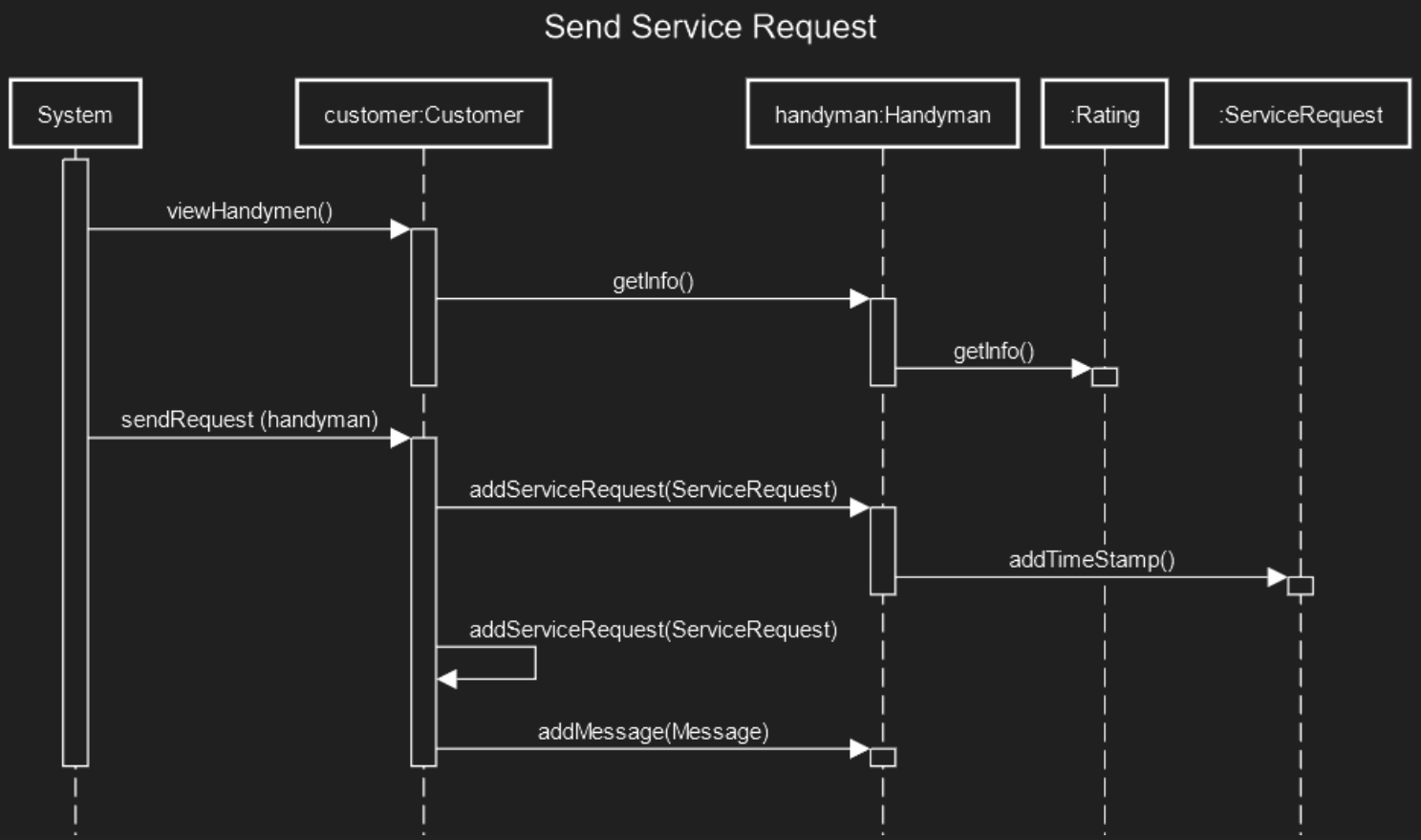
Use Case Diagram



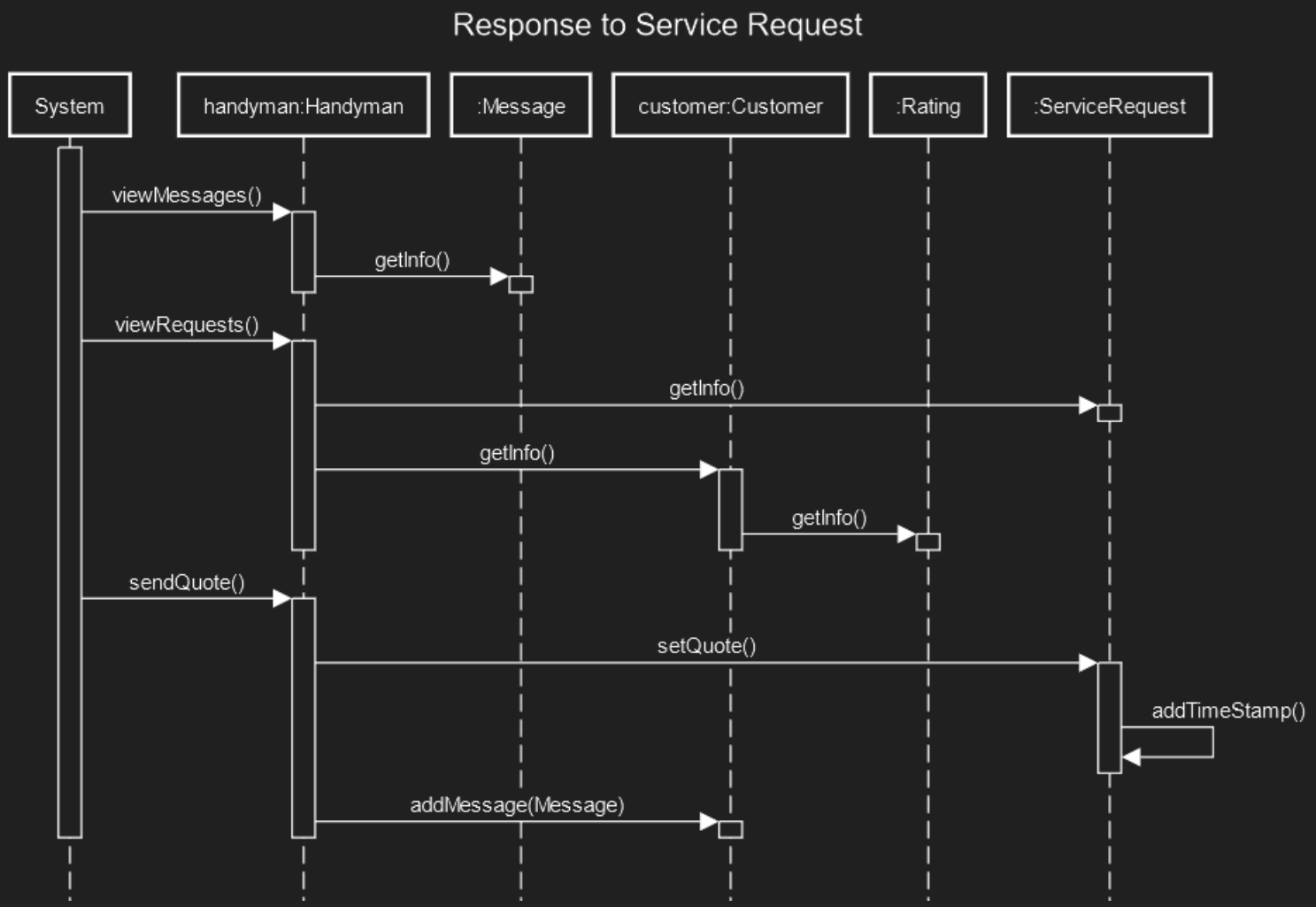
Class Diagram



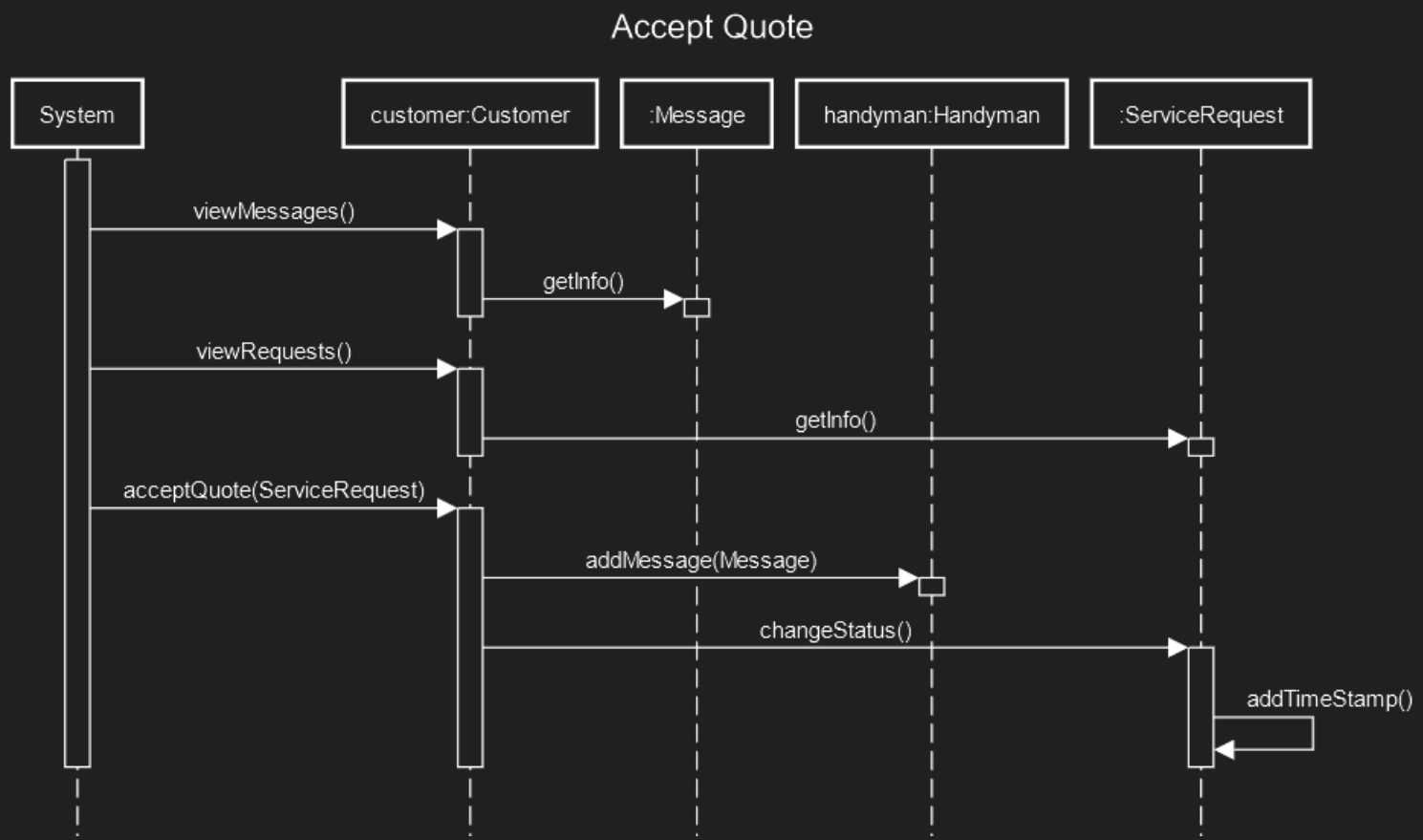
Sequence Diagrams



Sequence Diagrams



Sequence Diagrams



Thank you!