Infosys Springboard Internship – Week 3 Report

Name: Jyothi Sunkara

Week 3 Objectives:

1. Create a shout-out form with recipient tagging.

2. Store shout-outs in the database with tagged users.

Tasks Completed:

1. Shout-Out Form Creation:

• Designed and implemented the **Shout-Out form** in the frontend using React and Tailwind CSS.
• Form allows users to write a message and tag one or more recipients.
• Added validation for message and recipient inputs.

2. Recipient Tagging Functionality

• Implemented **recipient tagging** with a dynamic user dropdown.
• Integrated tagged user data with the backend API request.
• Displayed selected recipients on the form before submission.

3. Backend Integration and Database Storage

• Created backend endpoint `/shoutouts/create` using **FastAPI** to store new shout-outs.
• Connected shout-outs with corresponding senders and tagged recipients in the database using **SQLAlchemy**.
• Verified the complete flow from frontend to backend — shout-outs are successfully stored with all recipient details.

Key Features Implemented:

• Fully functional shout-out form with tagging capability.
• Proper API integration between frontend and backend.

• Shout-outs stored in the database with sender and recipient mapping.

• Clean, responsive UI consistent with the overall dashboard design.

Challenges & Solutions:

• **Challenge:** When filtering shout-outs by department, the total count was not updating properly.
Solution: Rechecked state updates and ensured that the sent/received shout-outs and totals update dynamically after each filter change.

• **Challenge:** Handling the display when no shout-outs were found for a specific department.
Solution: Added a conditional message like "You haven't sent or received any shout-out" for a better user experience.

What I Learned:

• Enhanced knowledge of **form handling and data flow** between frontend and backend.

• Learned to manage **complex payloads** containing multiple tagged users.

• Improved understanding of **FastAPI models and database relationships**.

• Strengthened **API testing and UI debugging skills**.

Outcomes:

• Completed development of the **Shout-Out creation module** with tagging functionality.

• Achieved seamless data flow and storage across frontend, backend, and database.

• Set up the base for next week's tasks like displaying sent and received shout-outs and department-based filtering.

Status: COMPLETED SUCCESSFULLY

Date: October 20, 2025