

SOFTWARE DESIGN AND ARCHITECTURE

LAB MID EXAM DESIGN



MAY 22, 2025 **RAJA FATASH ABBASI** SP22-BSE-127

Controller

The **Controller** GRASP principle is most suitable for my scenario.

Why?

- The **Controller** handles system events, like booking a trip, suggesting options, and tracking.
- It delegates responsibilities to the appropriate components, maintaining **loose coupling** and **cohesion**.
- In STMS, I'll need central control units to:
 - o Handle user requests (e.g., booking, tracking)
 - o Communicate with data services (e.g., maps, pricing)
 - Coordinate between modules (user, car, system monitor)

Example Controller Classes in My System:

- TravelRequestController
- CommuteSuggestionController
- TrackingController



