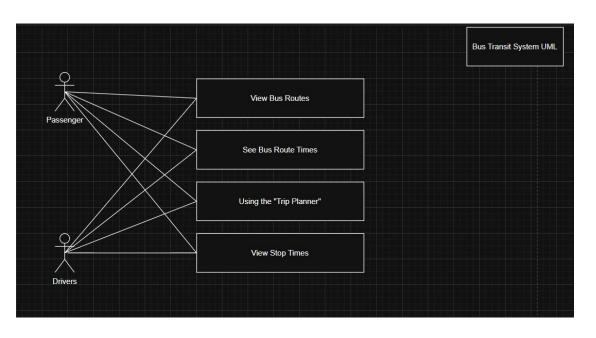
Phase 1

Krishna & Ronan

Use Cases

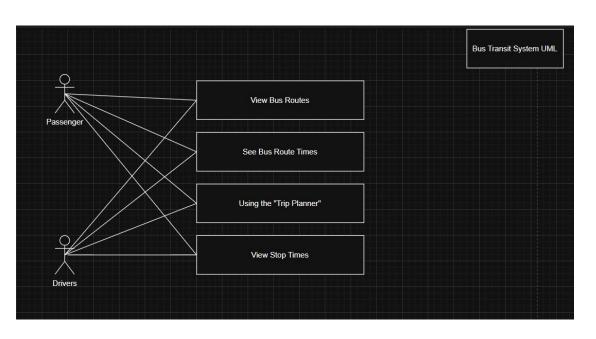


Viewing the bus routes:

1. Passenger selects "View Bus Routes" in the app/interface.

2. System retrieves all route names from the routes table.

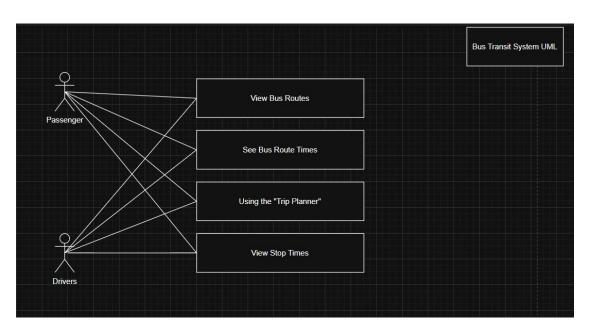
Use Cases (Cont'd)



See bus route times:

- Passenger selects a specific route (e.g., "UC Route").
- System retrieves the list of stops and their scheduled departure times (RouteStop).
- 3. System displays the ordered list of stops with times.

Use Cases (Cont'd)



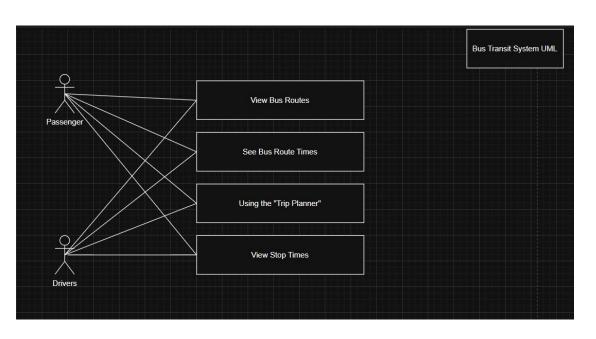
Using the "Trip Planner"

User inputs a start location, and a destination location

 Check for direct routes (check if a route exists with start + destination location), if no such route exists, move to the UTC hub and move from there to the destination location

3. Display the times of the busses (RouteStop)

Use Cases (Cont'd)



View Stop Times:

1. User inputs a specific stop

 Check for all routes with stop_key, return all routes with times (ascending time) sharing the same stop_key

Schema

```
Route(route key, route name)
Stop(stop_key, stop_name)
route stop(route_key[FK], stop_key[FK], time)
driver(driver_key, driver_name)
driver route(driver key[FK], route key[FK]) -> link to route/driver
route_status(status_key, description) -> link to route w/ foreign key
```

Entities and Relations

