

Bus Company LWC – Documentation

Objects

1. **Bus Company (Bus_Company__c)** - Represents a bus company.
 2. **Bus (Bus__c)** - Fields: - Bus_Status__c (Text): Status (Available, Limited Seats, Full) - Number_of_Passengers__c (Number, Rollup Summary) - Relationships: - Lookup to Bus Company
 3. **Passenger (Passenger__c)** - Master-detail relationship to Bus__c
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Apex Classes

BusCompanyController

- Provides buses with passengers for a Bus Company.
- Method:

```
@AuraEnabled(cacheable=true)
public static List<BusWrapper> getBusesWithPassengers(Id busCompanyId)
```

- Returns BusWrapper objects containing:
 - busId, busName, busStatus, passengerCount, busUrl
 - passengers: list of PassengerWrapper (passengerId, passengerName, passengerUrl)
- Handles:
 - Buses with no passengers (empty list)
 - Unknown status → “Status: Unknown”

Wrapper Classes

- **BusWrapper**: encapsulates Bus and passengers
 - **PassengerWrapper**: encapsulates Passenger info
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Lightning Web Component – BusCompanyBuses


Features

1. Displays all buses of a Bus Company in a Lightning accordion.
2. Accordion tab header shows: Bus Name • Status • Passengers: X

3. Inside accordion:

- “Go to Bus Record” button opens Bus record in a new tab.
- Passenger list:
 - Two-column layout.
 - Each passenger name clickable → opens Passenger record in new tab.

4. Handles:

- No buses → displays “ This company has no buses.”
- No passengers → displays “No passengers for this bus.”
- Apex errors → shows Lightning toast.

Files

- `busCompanyBuses.js`: fetches data, prepares wrapper objects, handles clicks
- `busCompanyBuses.html`: markup with accordion, button, two-column passenger grid
- `busCompanyBuses.css`: grid styling for passenger list
- `busCompanyBuses.js-meta.xml`: exposes LWC on Bus Company record page

Styling

- SLDS classes:
 - Margins: `slds-m-top_medium`, `slds-m-bottom_small`
 - Grid layout and badges
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Test Class – `BusCompanyControllerTest`

- Creates:
 - 1 Bus Company
 - 3 Buses with different statuses
 - Passengers for each bus
 - Verifies:
 - Wrapper list size
 - `busId`, `busName`, `busStatus`, `passengerCount`
 - Passenger list size
 - Generated URLs (`busUrl`, `passengerUrl`)
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