Software Integration in a Trailer Rental System

Scenario: MyTrailer is a company that rents car trailers so that people can move things or take garden waste to the genbrugsplads. The trailers are owned by the company but are placed in locations such as Jem og Fix or Fog so that they are always close to where people want them. The trailers carry both the MyTrailer and the location's branding but all the rental and payments are done via the MyTrailer system. In return for parking the trailers on their site the companies who give space to MyTrailer get their advertising on the trailers and pay MyTrailer for providing the loan service (which helps attract customers to their stores).

Customers access the trailer system over an app. They can select a location and book a trailer. All of the trailers are identified by a location ID and a number (1,2,3,4 etc). The user books a specific trailer. Rentals are for a maximum 24 hour period but always finish at midnight at the latest. This means a trailer rented at 9pm could only be rented for a maximum three hours. Overnight rental counts as long-term rental and needs to be booked from the website and collected from specialist locations and is not part of the app. They are not part of the normal MyTrailer offer which is for short term rental. If a trailer is returned late there is an excess rental fee added to the customer's bill. The fee charged for a trailer is zero but most (over 80%) customers buy insurance for the trailer that costs 50 Kr. MyTrailer makes most of its money from the company partnerships and the insurance fees (the number of claims is very small).

Tasks: You are being asked to model the flow of messages between services and suggest an overall architecture for the system using the domain driven design approach. This may include using requirements gathering techniques you have learned and Enterprise Architecture design ideas.

- Study the DDD resources and carry out an Event Storming session to identify requirements.
- Show how you used strategic and tactical design approaches to produce a map from which you can build the system you need. Don't forget you can use C4 Diagrams,
 BDD etc to help with DDD the deliverable is to provide me with a DDD style model for your trailer solution use https://ddd-practitioners.com/home/ as a guide.
- Prepare documentation to show how you built an understanding of the requirements for the system (e.g. diagrams / Ubiquitous language)
- Make sure you have a 'definition of DONE' for when your model is ready to start
 experimenting with and create documentation for me detailing your approach and
 explaining the design.
- Email me a link or upload it to the upload folder for OLA3 of the github repo containing the documentation of your model.