

Coding Case: Dashboard for mobile home rental agency



Image from Sabine van Erp from Pixabay

You have an old friend from when you were in high-school. She has been working as a stewardess for many years, but lost her job a couple of years ago when the airline went bankrupt. Since then, she has been working on starting a mobile home rental business. She calls her company “DanWag-ons” and it is a one-(wo-)man-company. Using her old contacts from her time as stewardess, she has been able to offer mobile homes to the Danish market and to “Mrs. and Mr. Denmark”. The mobile homes are located on three campsites – one in Australia, one in Kenya (Africa) and one in Thailand. Your reputation as one of Europe’s finest front-end developers has reached her ears and she is now asking for your assistance. She wants you to create a business dashboard for her. To complete this job, you will cooperate with a back-end developer – Jane Smith – who will code all the content stuff. You are only responsible for the screen layout and design.

You are the one having a meeting with your high-school friend where she is trying to explain her business goals. “I want to provide the best service to my customers and I have a feeling that I can

improve on that. If I have a better overview over my business it will help. That is why I am thinking that if I have some sort of dashboard that can help me – that would really be good.”

You know the concept of a dashboard and asks her how she arrange her desk at her office?

“Well, I have two big screens and one of them is seldom in use, so I am thinking this one can be reserved for an operational dashboard”.



Image from Picography from Pixabay

You have two final questions for her. What information must be put on display and must the dashboard be mobile friendly? To that she answers: “I need weather data for the current day, so that I can send out warnings or good advice, I need the local time for each location, I need a world map, I need to see my Facebook news feed, I need to have live video transmissions from each campsite, I need to know the number of the current visitors on my business website (www.danwagons.dk), and be able to compare that with previous number of visits, I need an overview over the total wagon capacity and how many is available, and finally I need a currency table that includes the euro and American dollars.”

“Does the dashboard need to be mobile friendly? Yes, I want to have a look now and then when I am out of office. Then I only need campsite local time, weather data and Facebook news feed.”

You start making paper prototypes like the ones on the next page. She agrees that it is exactly what she wants and you start coding...

The plan is that when you have finished coding the front-end part, you will hand it over to the back-end developer Jane Smith who will finish the job.

