



Themed Wagons

Different themed wagons customized to increase user experience of different train traveler groups

Each train passenger tends to use their time between departure and arrival in a different way, some use it for work, some for socializing, others to rest. For many travelers, the ambience on the train is uncomfortable and doesn't fit their specific needs. At the same time, more and more people are becoming sustainably aware and would like to combine their means of transport between bicycle and train. At the moment, these experiences have been described as unreliable and stressful.

For this purpose, we designed a concept supporting differently themed wagons: a silent wagon, a socializing wagon and a wagon adapted for bicycles.

Modifying the already existing Slovenske Železnice app, our aim was to maximize the UX of the current features, as well as support and present the idea of themed wagons. These changes included: simplified data exhibition, booking a bike space option, games and entertainment. A newly added feature of viewing the passenger's location on the train at all times allows for easier orientation regarding which themed wagon they are on, or which themed wagon they could move to, based on their needs. The option to track their location on the road invites passengers to prevent opening third party apps such as Google Maps and support SŽ. We also added a questionnaire through which SŽ would be able to obtain more information about its passengers.

Another solution is an ARDUINO NANO sensor to automatically adjust the light in the wagons according to the brightness and color of the environmental ambient light. This happens smoothly via PID controller. It also allows for adjustment of the light temperature through which the wagons are given a theme that can be adapted to easily and differ in ambient, rules and furnishing. Cool light is reserved for concentrated working in the silent/working wagon, and cozy light and pleasant atmosphere are appropriate for the socializing wagon. The bike wagon would be modified through physical conversion to enable safe bike transportation.

