

# OSMyBiz - Company profile editor for OpenStreetMap

## Students



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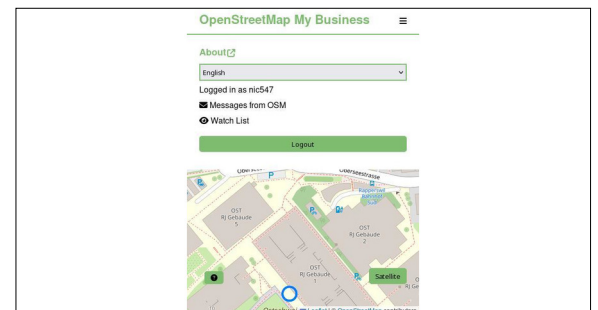
**Introduction:** OSMyBiz is an online editor for the collaborative, open mapping project OpenStreetMap (OSM). The acronym stands for "OpenStreetMap My Business", and the web app is designed to allow users to maintain information about businesses on OSM, like, e.g. hotels, without needing knowledge of how OSM is organized internally. It is especially aimed at new users and those who rarely work with it, and also at tourism channel managers who want to manage information about their business like address and opening hours.

**Problem:** OSMyBiz was created in 2018 as a bachelor thesis. Since then, it has received only minor software updates. It needs to be technologically updated and improved. Since its creation, there have been new versions for almost all software dependencies. Some software libraries are not even maintained. There have also been significant changes in the tooling used in modern web applications. In addition, OSMyBiz was not optimized for mobile devices. One of the external APIs used implemented a speed limit, which resulted in error messages when panning and zooming the map. In addition, the application has a growing list of issues and suggestions for improvement.

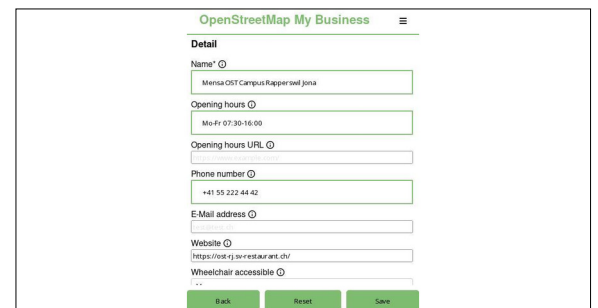
**Result:** The existing OSMyBiz application has been revamped with a responsive mobile-first approach and has generally improved the user experience. OSMyBiz was also updated by, among other things, migrating from Vue version 2 to 3, with the replacement of Vuex with the Pinia library, the switch from Webpack to Vite, and the introduction of TypeScript instead of JavaScript. A caching mechanism was added to the application to reduce the load on the public Overpass API. Finally, the maintainability of the TypeScript and Python

codebase was improved, and the possibility to change the frontend has been enhanced. There are still numerous open issues, ideas, and optimizations for OSMyBiz. This project has laid a solid foundation for the implementation of future improvements.

**The new responsive header bar of OSMyBiz on a mobile device. Unlike before, all menu items are visible.**  
Own presentation



**Editing a business on a mobile device with OSMyBiz. Changes were made to improve the layout on mobile devices.**  
Own presentation



**The desktop view of OSMyBiz. Editable businesses are loaded via Overpass API and displayed as circles on the map.**  
Own presentation



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**Subject Area**  
Software, Internet  
Technologies and  
Applications

