Implementing Application with Modern Web Technologies and Microservices

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Tulkinta:

This thesis aimed for student research work in applying modern web technologies to support everyday problems in real life. Particularly, initiated with the idea of reducing the food waste in supermarkets, the thesis created a platform for supermarkets and many kinds of organizations to connect with each other simply. However, this thesis concentrated on developing on the technical side with the aim to trial a large-scale application with numerous technologies combined all together for the higher efficiency in the web industry nowadays.

The technologies were chosen in this project including the TypeScript as the programming language, React and Redux for front-end development, Node.js, Express, and MongoDB for back-end development, and Docker and Kubernetes for the microservice architecture. The project also used Google Cloud Platform for the deployment. Aiming for researching, this project tried to reach new experiments to find out benefits and obstacles while building an application in a more macro-model.

In conclusion, this project has been accomplished with such a lot of effort to widen knowledge as well as experience in developing a demo large-scale web application. Despite the time restriction, this project has completed adequate features as a real-life application. Finally, from the technical field, this thesis may contribute to the research and development in expanding those kinds of techniques in various systems.
Microservices are single-purpose applications that can be developed, scaled, and deployed independently. This post helps you getting started with microservices in Java. A portal-like website that renders multiple web applications in a single web page. Additionally, the system requires three orchestration services: discovery-server: Service registration and discovery. Follow him on Twitter - @alejandro_du. Comments (). Passionate about software development with Java technologies. Microservices are single-purpose, loosely coupled applications that can be developed, scaled, and deployed independently. The sum of them constitutes a whole system. Microservices architecture (or microservices) is a particular way of developing software, where applications are structured as a collection of autonomous services. In other words, large complex products are broken down into individual mini-apps (microservices) that are responsible for one specific business function, e.g. social media logins or e-commerce basket. Monolith applications are becoming operational mammoth in the modern age for the following reasons: Scaling is complicated and expensive. You need to scale the entire application even if you want to fix a localized bottleneck. The Ultimate Business Benefits of Implementing Microservices. Microservices enable modularity. The application implementing this pattern performs routing of requests to underlying microservices, and can also perform additional functions, such as authentication. In this project, for greater clarity, a UI gateway has been implemented, that is, a single entry point for different UIs; obviously, the API gateway is implemented in a similar way. In the article we examined an example of the microservices architecture implementing with the modern technology stack suggested by the Java world, its main components, and some features. I hope the material will be useful. Thanks!