12. 11. 2024

Dog Shelter Website

Katerina Kolarikova

Sofia Michailidu

What is the page about?

The goal is to list available dogs and add new adoption offers



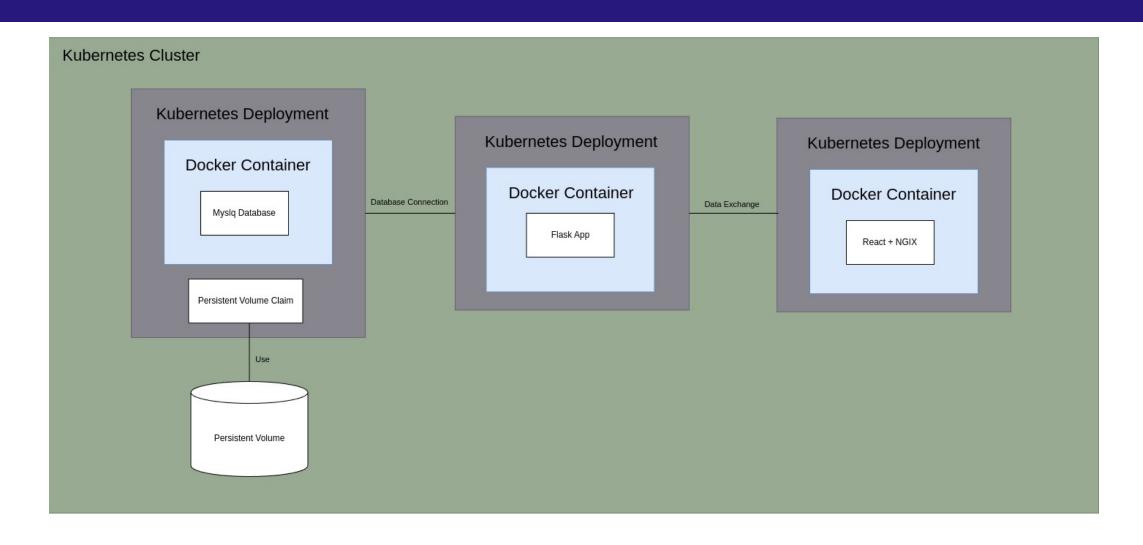
Used Technologies

The project utilized a diverse array of technologies, including cloud-based solutions

Cloud Solution	Frontend	Backend - REST API	Database
Docker	React	Flask	MySQL
Kubernetes	Bootstrap		
OpenStack	NGINX		
	HTML		

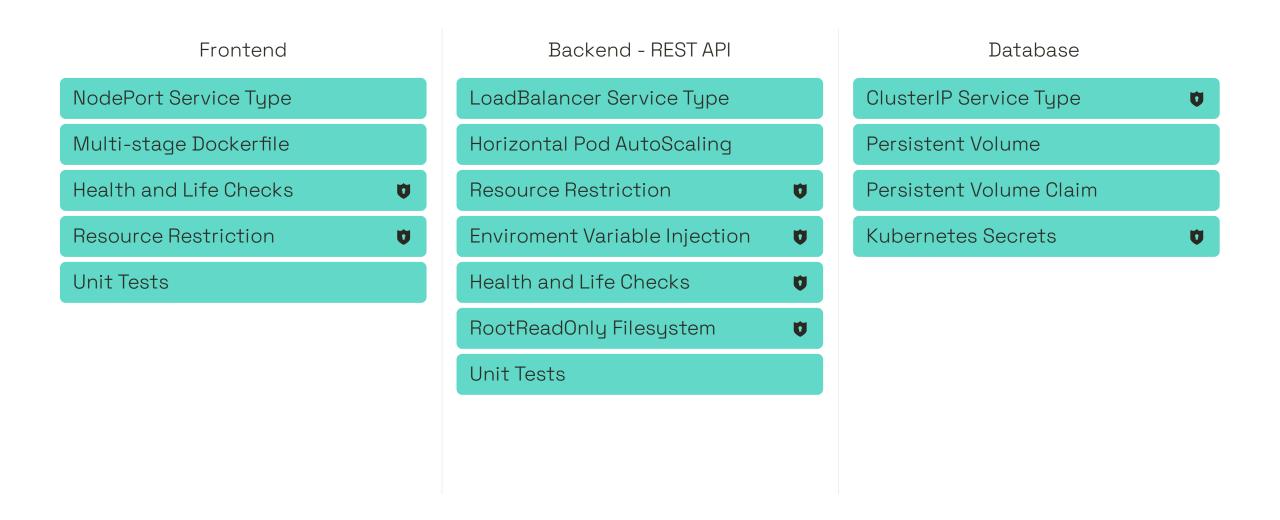
Application Design

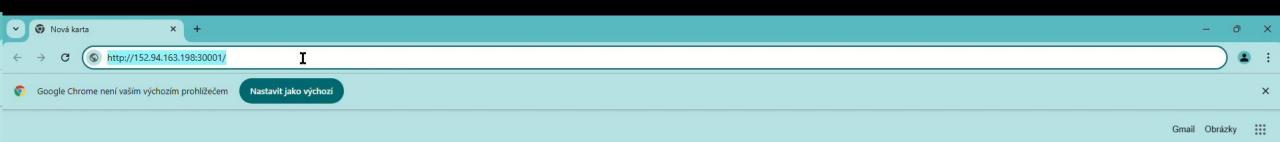
The key benefits of this design are modularity and component isolation.



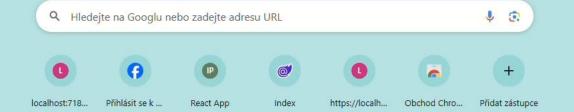
Key Features

Key features include security measures, scalability, and unit testing



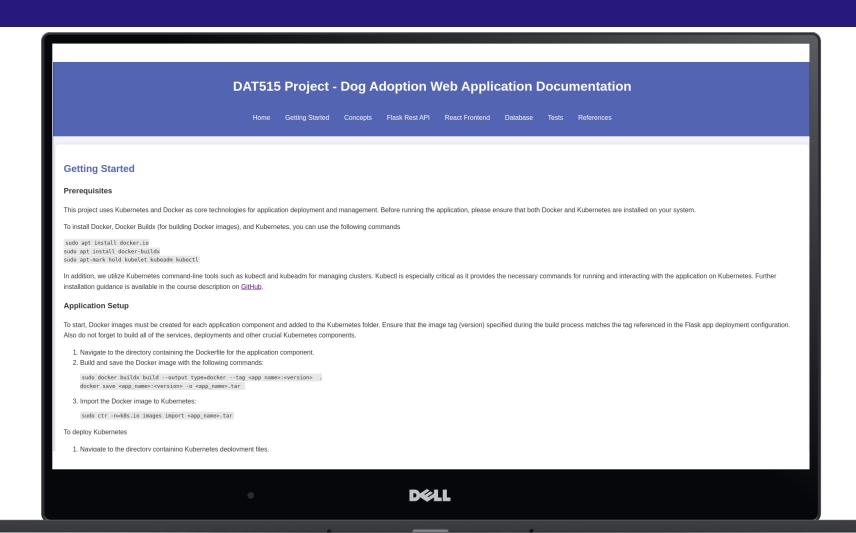


Google



Documentation

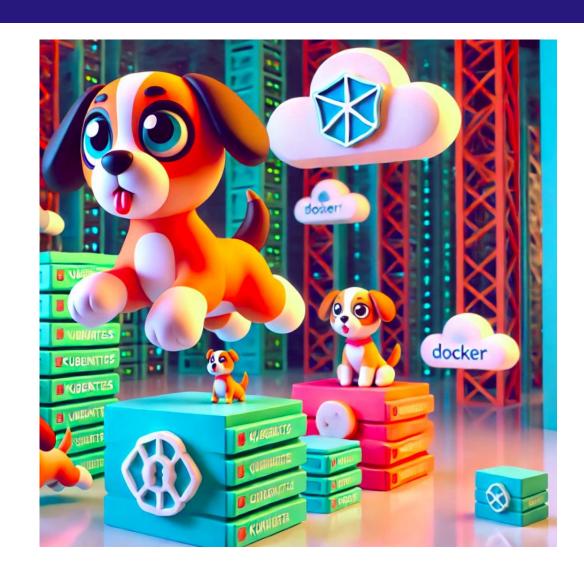
Detailed documentation ensures clarity and understanding of the project



Challenges

Difficulties faced during implementation and lessons learned

- Docker and Kubernetes as new technologies
- Kubernetes poses significant complexities
- Multiple challenges faced during development
 - Image import into Kubernetes environment
 - Difficult database debug
 - Proper setup and testing of components
 - ...



Conclusion

Successful implementation and deployment of dog shelter web page

- Deployment with Docker and Kubernetes
- Focus on deployment, security, scalability and proper testing
- Comprehensive documentation
- Facing multiple challenges
- Future Ideas
 - Enhancing security measures Network Policy



Thank You For Your Attention

Katerina Kolarikova, Sofia Michailidu