## Ostrich Learner

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Ostrich Learner is a multifunctional application that helps users effectively master foreign language vocabulary. Based on the words entered by the user, the application automatically generates tests, ensuring an individual and targeted learning process. An algorithm was created to strengthen vocabulary, which helps users review previously learned words. It is based on the accuracy of user's responses and algorithm adjusts the frequency and content of the tests. Additionally, progress monitoring is available, which further motivates users of the software. The application is available in for languages, increasing its usability and comfort wide The project is built using modern technologies to ensure easy maintenance and scalability. The main technologies used to achieve the project goals were:

Programming languages: Typescript, Javascript, Python, Rust.

Technologies: React, NestJS, Tauri.

Databases: MySQL, MongoDB, and TypeORM for database schema definition.

Additional tools: Git, TailwindCSS, Docker, Postman.

The technical solution provides high-quality functionality, easy maintenance, and potential for growth. As a result, Ostrich Learner delivers a motivated, structured, and user-oriented learning process for users of all proficiency levels.

## References

[1] A mind for numbers, how to excel at math and science 2014 B. Oakley 150-154

## Internet resource:

- [1] <a href="https://www.w3schools.com/">https://www.w3schools.com/</a>
- [2] <a href="https://v1.tauri.app/v1/guides/">https://v1.tauri.app/v1/guides/</a>
- [3] https://docs.nestjs.com/
- [4] <a href="https://www.udemy.com/">https://www.udemy.com/</a>