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Main project in computer science at OsloMet

Web application development for an image accessibility workflow

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General information

The web application project, proposed by Raju Shrestha, an Associate Professor of Computer Science at OsloMet, aims to assist visually impaired users. It will feature the ability to upload photos for description by an AI model. As we delve deeper into the project, the scope of tasks is expected to grow dynamically.

Possible claims for machine platform, data tools , and other framework conditions

We've decided to implement a SCRUM method with regular weekly meetings to advance our project. Our setup will be cloud-based, and while we're still finalizing our choice of programming language, we're leaning towards .NET 6 (C#) complemented by JavaScript and CSS, with Python to enhance the provided AI model.

The web app will allow users to upload images that are analyzed by a machine learning algorithm within a Docker container, generating a descriptive output. This output is then evaluated against image accessibility standards to ensure both accuracy and quality.

Final deliverable

- The application and source code.
- Docker build files and images
- Working web application on a test server.
- Project report