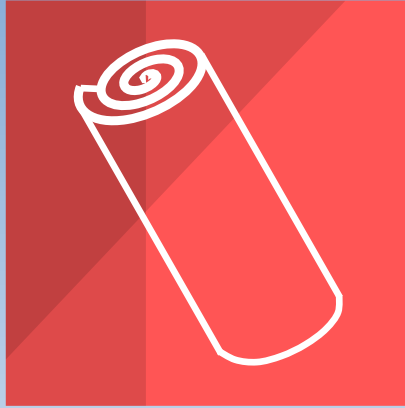


Do you like Yoga?



But you need a coach to start with it?

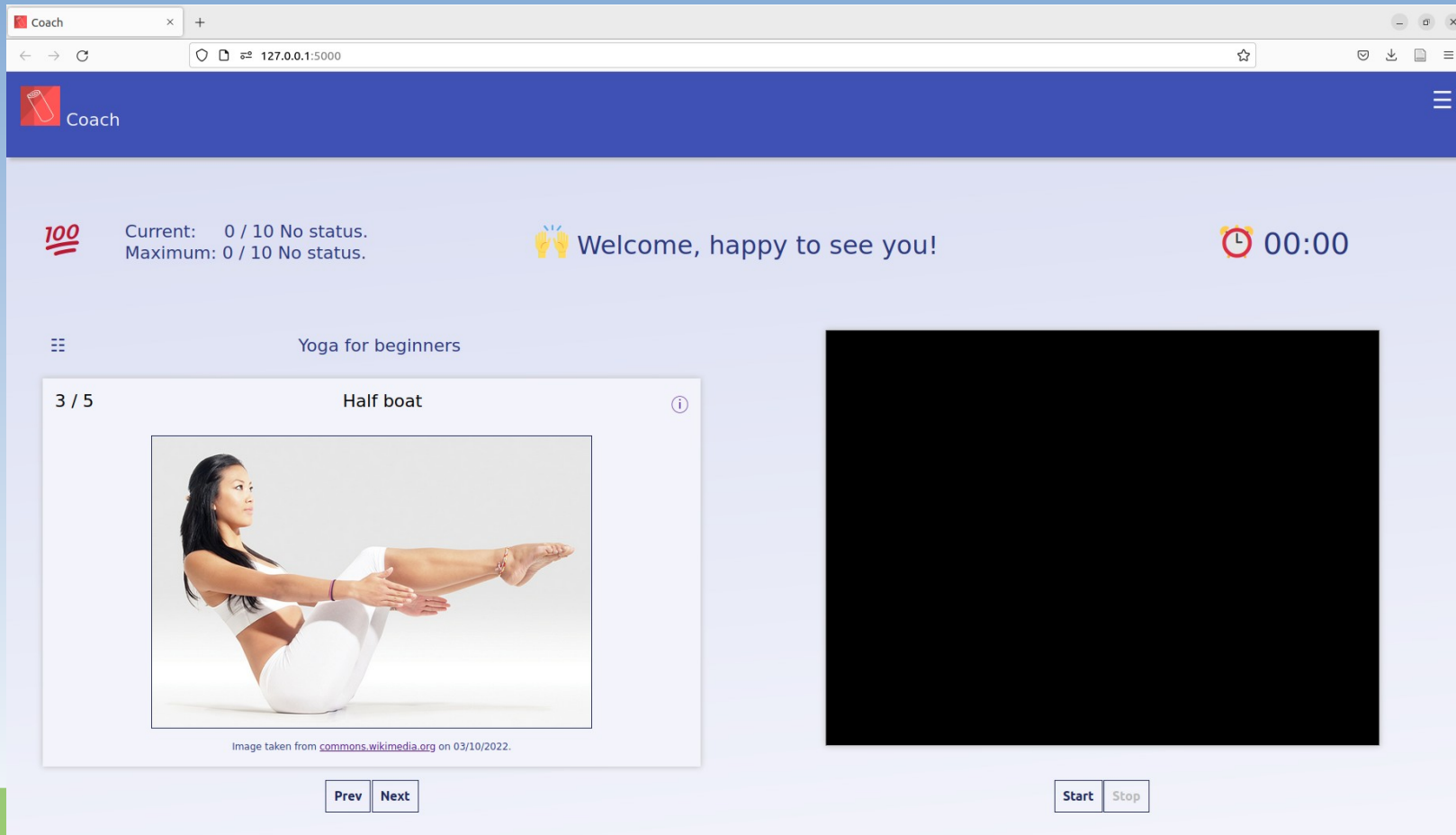


Then don't worry!

I have something for you :)



# I created a computer vision based yoga coach web app



# Functionality

- Suggests you exercises from a certain category
- Runs in your browser using your 2D webcam
- Predicts your body pose in 3D on the server
- Starts a timer when you are ready (visible)
- Gives you feedback acustically



# Technical background

- **Flask** webframework
- **MediaPipe Pose** library to predict the 33 landmarks
- Relations between key landmarks and joints are known allowing to calculate angles
- To create angle templates, **Wikipedia images** are used
- Angles of correct template and current are compared per video frame
- Feedback is based on the resulting differences
- Feedback to audio with Google Translate's text-to-speech API (**gTTS**)



# You want to know more about it?

- Then check out the **Github** repository
- It's open-source :)
- And give it a start ;)
- [https://github.com/klmhsb42/yoga\\_coach\\_web](https://github.com/klmhsb42/yoga_coach_web)



# Credits

- all people from Spiced Academy
- Bundesagentur für Arbeit
- Background for presentation taken from LibreOffice Impress templates
- MediaPipe Pose
- [commons.wikimedia.org](https://commons.wikimedia.org)
- And others (see Github repository)

