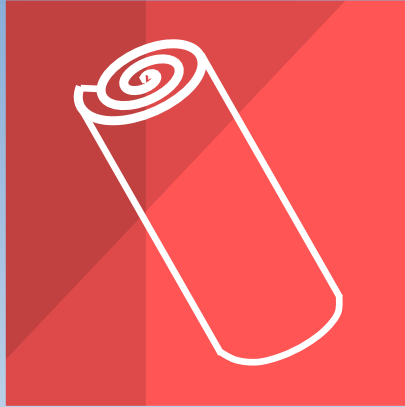# Do you like Yoga?

But you need a coach to start with it?
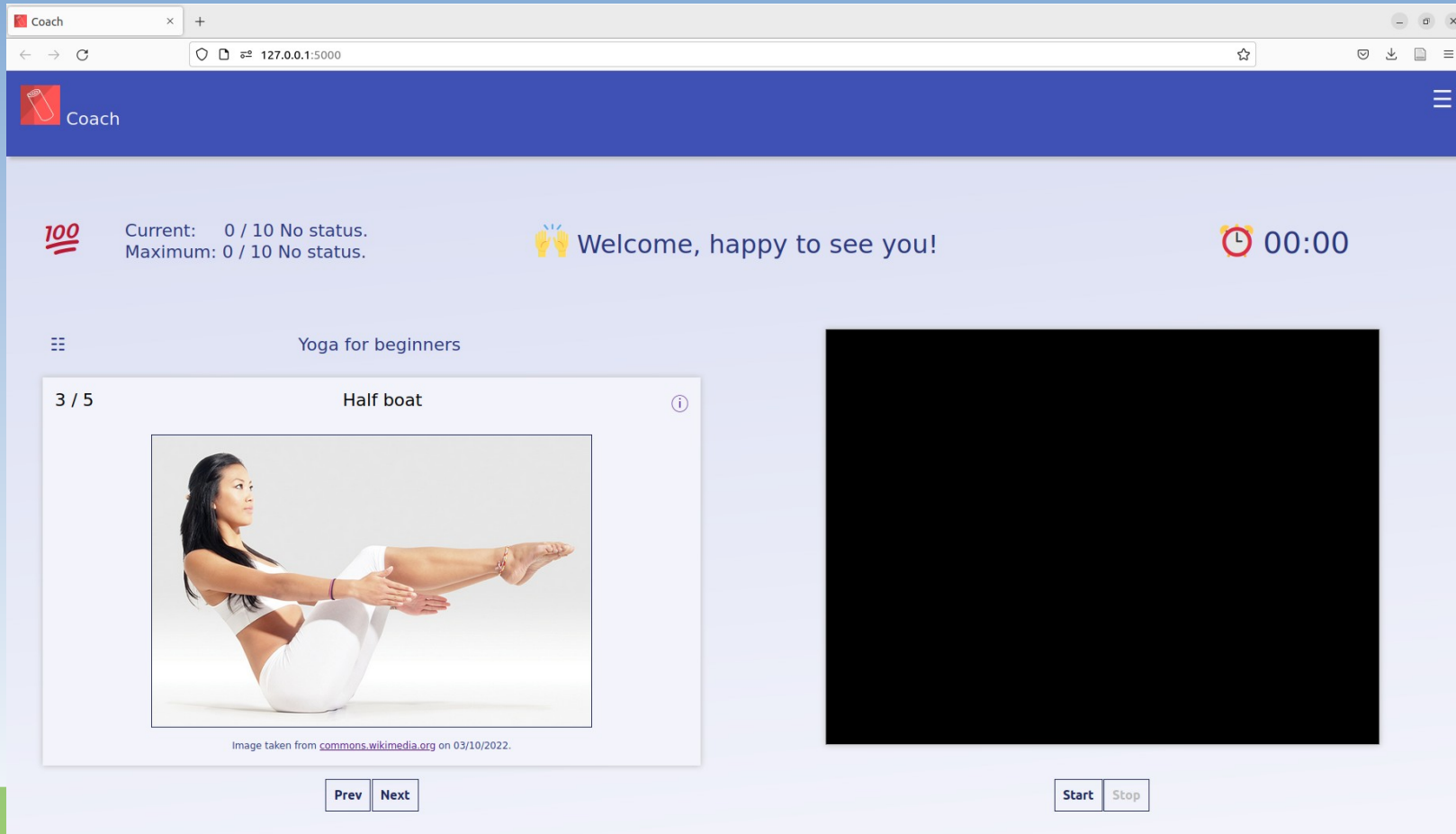
Then don't worry!

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

Credits

- all people from Spiced Academy

- Bundesagentur für Arbeit

- Background for presentation taken from LibreOffice Impress templates

- MediaPipe Pose

- commons.wikimedia.org

- And others (see Github repository)