1. First step is to ensure all the necessary packages have been installed. In this case, the required packages need to be installed for building a Streamlit application, such as Streamlit itself, OpenCV for computer vision, and all the other packages for my pose / motion transfer solution.
2. Design the user interface: The next step will be to plan and design the user interface for the application. I'll need to define the features to include, what information to display, and how I want the user to interact with the application.
3. Write the Code: Write the code to implement for the pose / motion transfer solution. This will involve some image processing, pose estimation (OpenPose), image generation using a diffusion model, video re-creation and calculating a loss function.
4. Integrate the code with the Streamlit application, which will involve creating a function or to support the motion transfer processing and integrating that into the Streamlit app.
5. Write the Streamlit app code: Write the code for the Streamlit app itself, using the Streamlit API to create the user interface and handle user interactions.
6. Test the application: Test the Streamlit application to make sure everything is working as expected.
7. Deploy the application: Once I'm satisfied with the Streamlit application, I will deploy it to a hosting platform so it can be seen and used by others.
8. Maintain and update the application: After deploying the application I will likely make a few modifications prior to final submission to ensure it's a solid product