



# DESIGN AND DEVELOPMENT OF AUTOMATED SHIRODHARA SYSTEM

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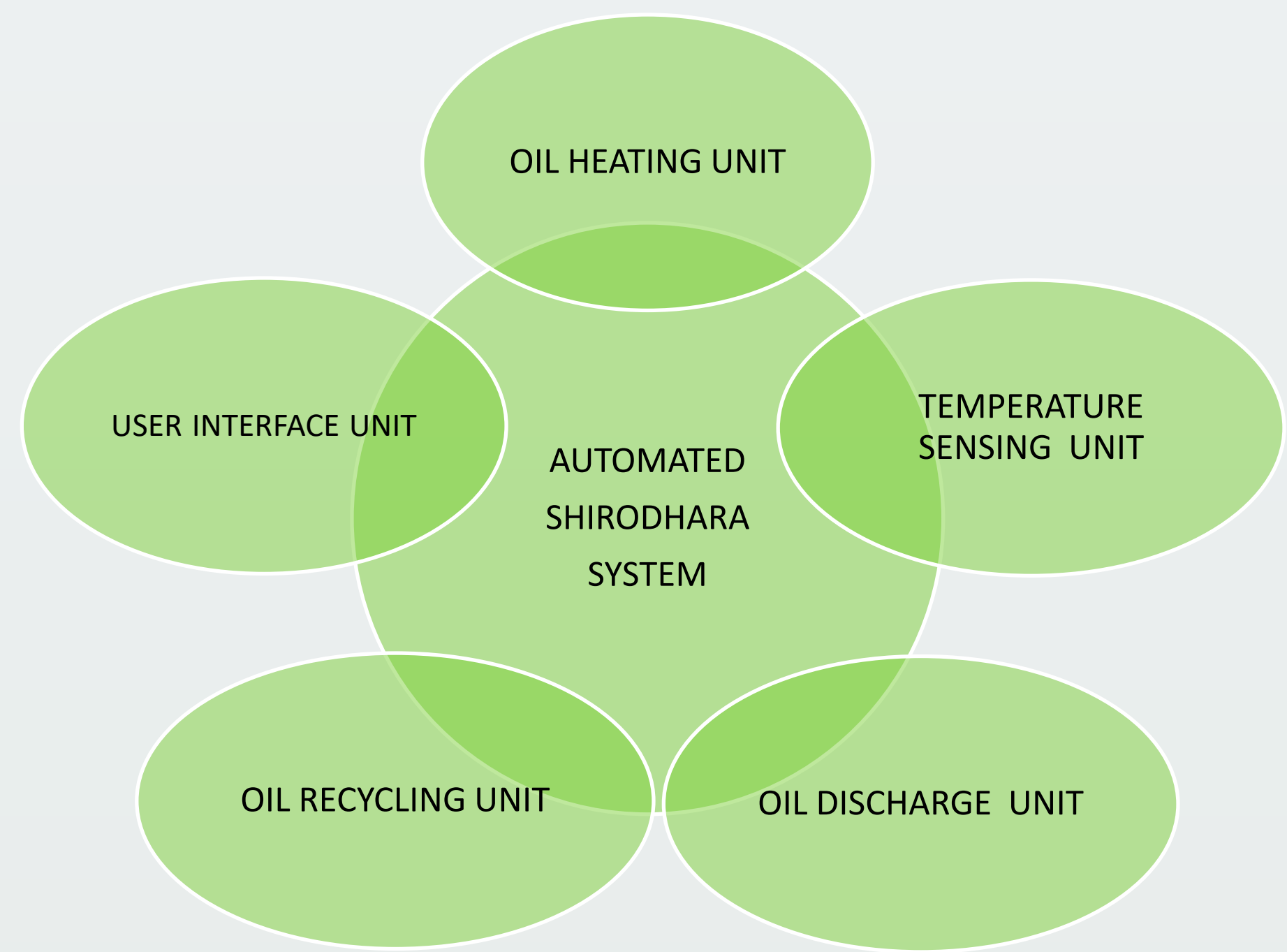
## OBJECTIVE

- Design and development of automated portable shirodhara system
- Continuous oil temperature and flow maintenance
- Innovative
- User Friendly
- Abort treatment anytime during Emergency

## INTRODUCTION

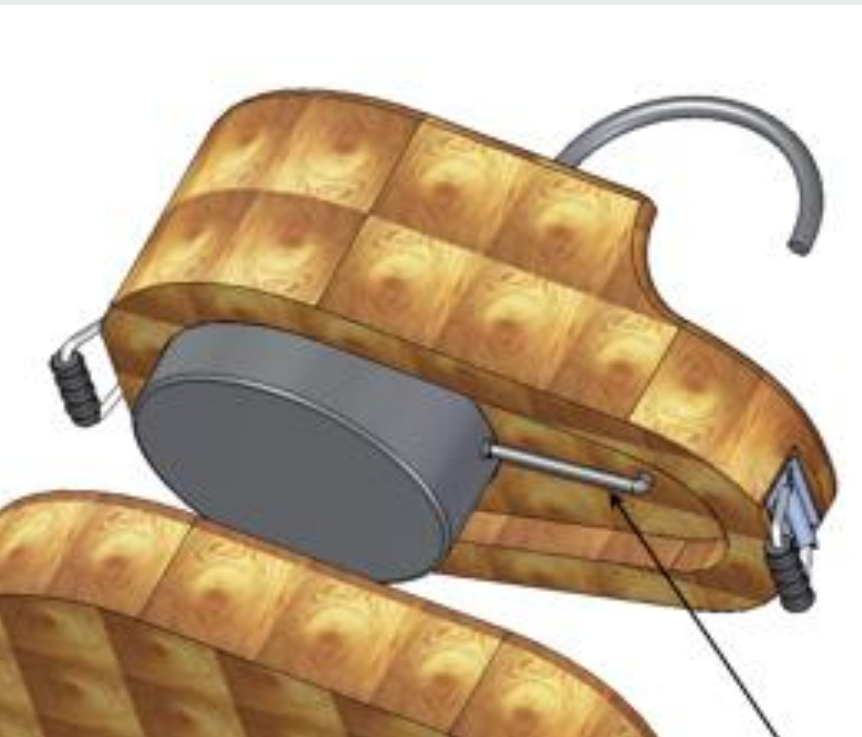
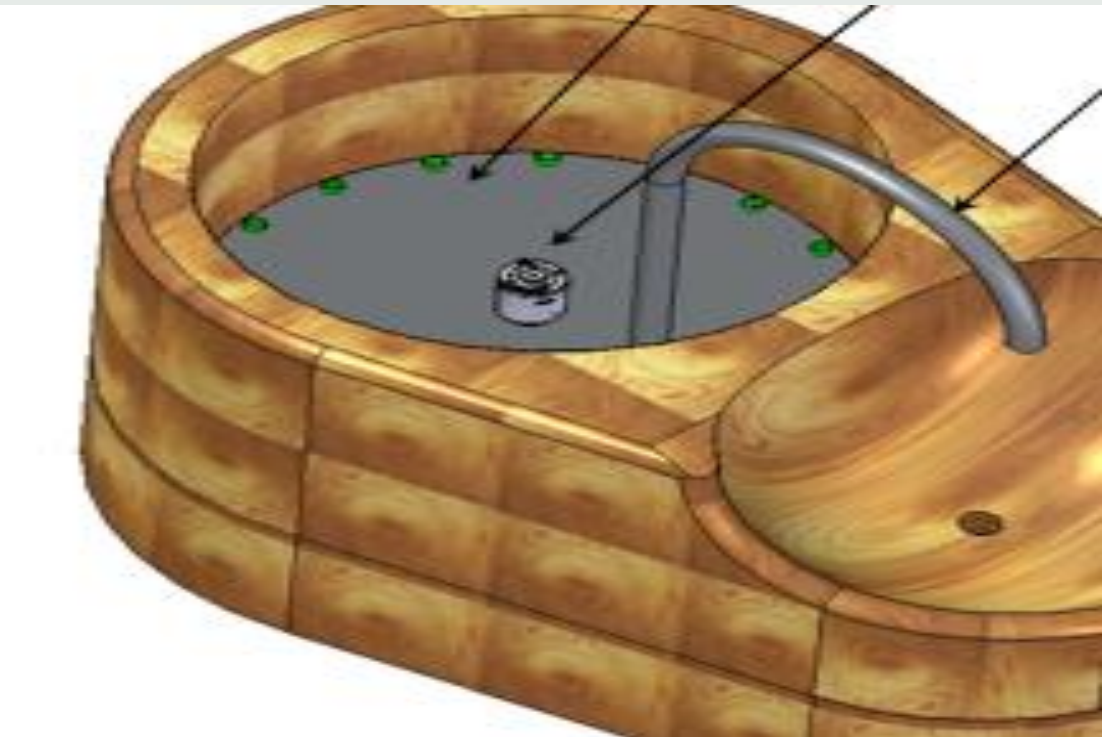
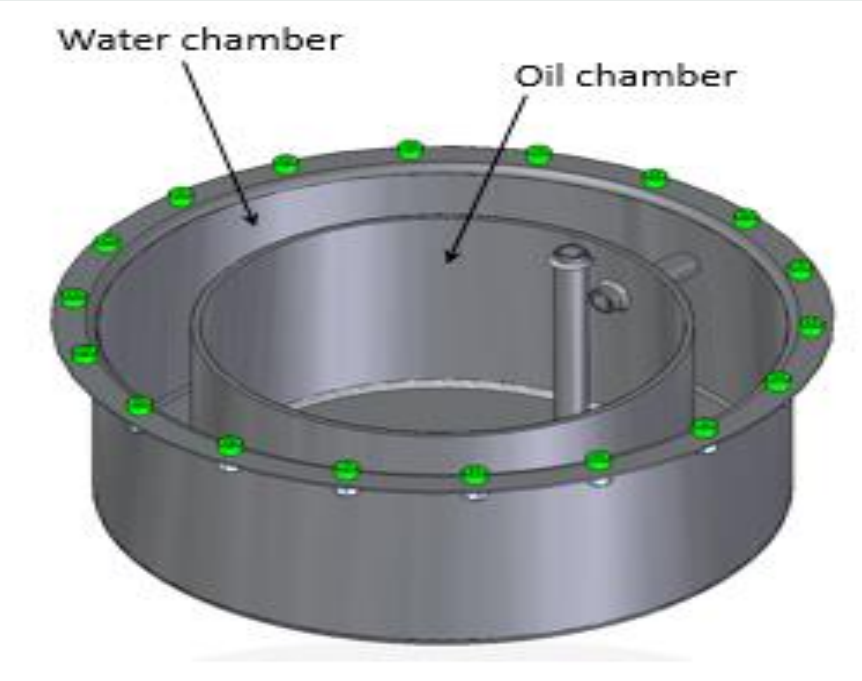
- ❖ **What is Shirodhara?** Shirodhara is an ancient Ayurvedic therapy part of Panchakarma (Panchakarma is a method of cleansing the body of all the unwanted waste after lubricating it and it comprises of 5 procedures). Warm oil (or other liquid) pours in a continuous stream over the forehead
- ❖ **Why is it useful?** In India, over 4% of people are suffering from hypertension. It is found to be 45% amongst males and females between the age of 26-45 years. Shirodhara is a great treatment for a compromised nervous system. It helps to relieve symptoms of anxiety, stress, fatigue, psoriasis, and hypertension.
- ❖ **What is the need to automate?** The traditional technique requires human intervention throughout making the procedure susceptible to human errors. Further, the consequences of such human failure can be severe.
- ❖ **How is it Implemented?**

## CONCEPT

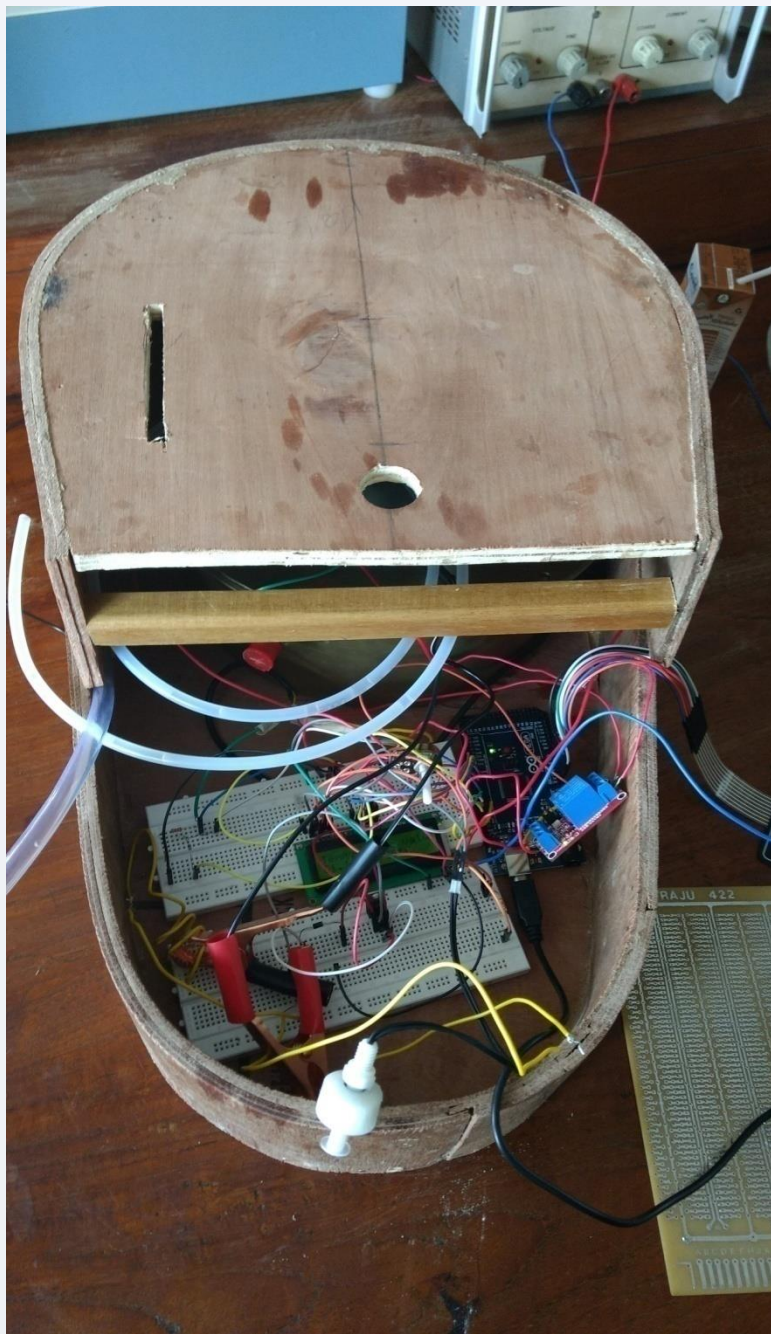
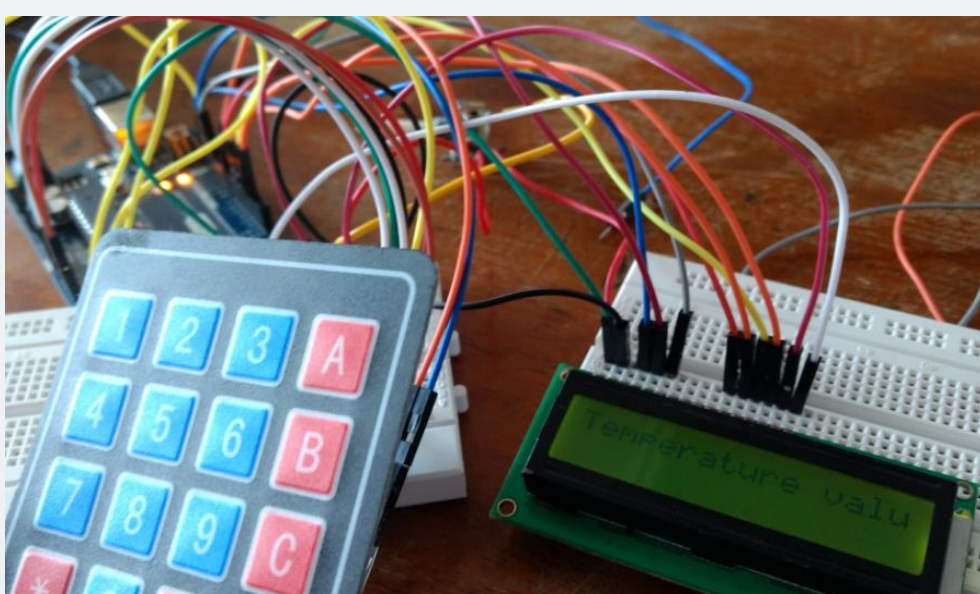
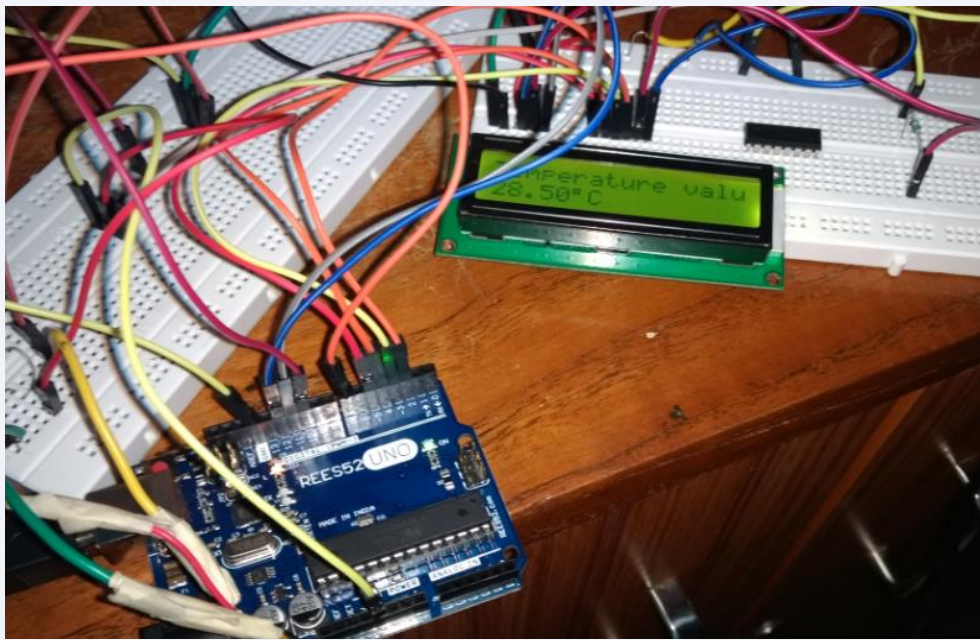


## DESIGN

- Indirect heating technique
- Continuous oil discharge
- Oil recycling system



## RESULTS

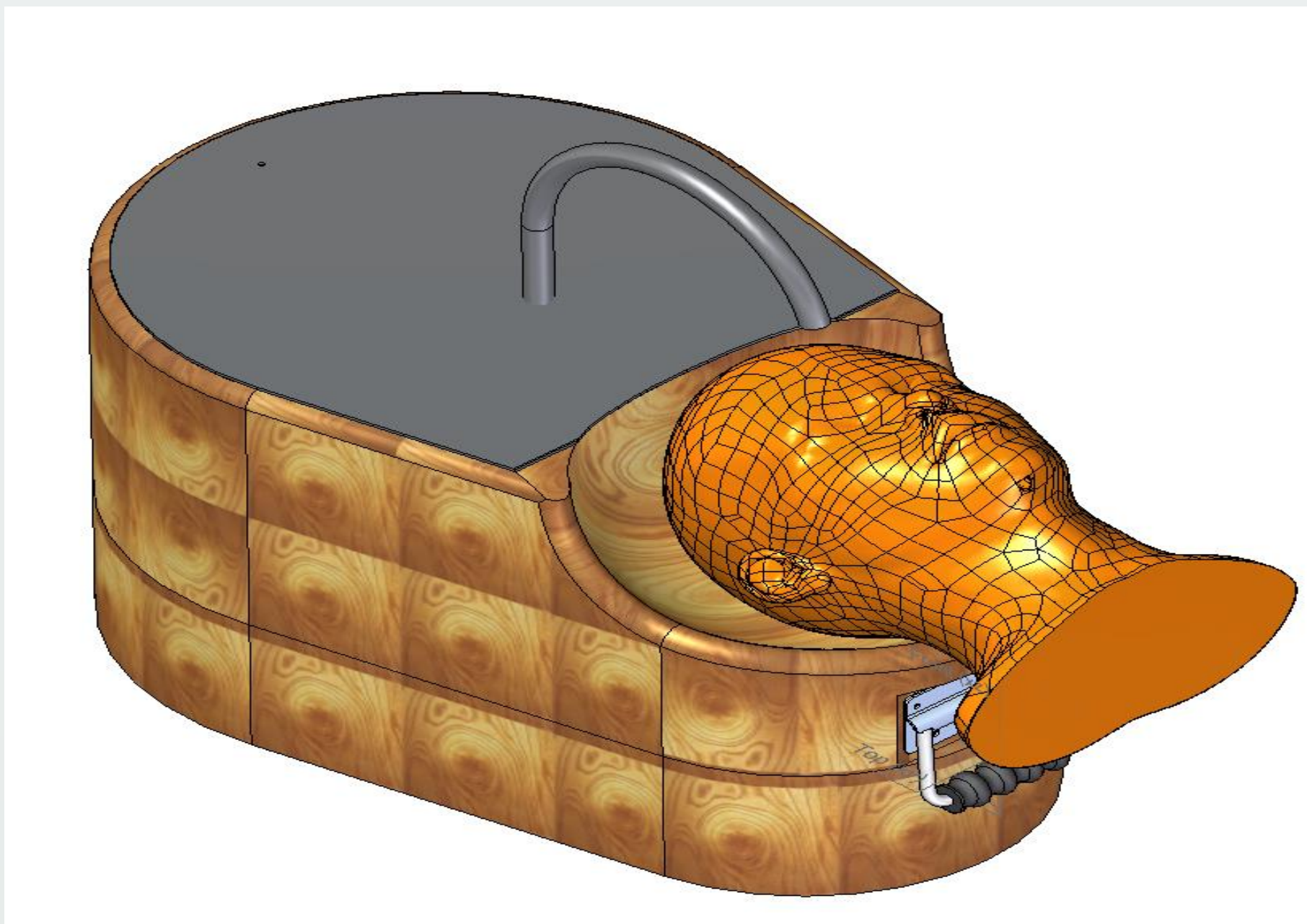


## BENIFITS

- Easy to use
- Portable
- No Wastage
- Aids the Ayurvedic Clinicians/Doctors
- Cost effective

## EXPECTED PROTOTYPE

### AUTOMATED SHIRODHARA SYSTEM



## REFERENCES

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