

ThermoBank Prototype 4.0

Adobe XD – used to design app

Added thumbnails to videos pages

After login the community screen has been altered to show User login picture (feature implemented on next update)

User questions:

How would you feel wearing this device?

How well did the device fit?

Would this device be comfortable to wear for a long time?

What do you think these icons mean?

Anything difficult to read?

*Can I create a profile page?

*How do I share messages or pictures?

*How do I add my picture?

*How view pdf or video files within the app?

Materials used:

Nylon- Light polymer plastic that is strong, durable, stretchy and flexible as well as breathable. The color black is used to absorb heat from sunlight while hiking.

Velco – Heavy duty Velco with stitched edges to maintain secure fit.

Thermo-electric generator (TEG 2) – Power scavenging design used to harvest electricity from low delta temperatures.

THE-2D-U Bi-directional ultra-low voltage converter- Amplifies thermos generated electricity. This device can take 45millivolts and convert it to between 5V-10V.

Power Supply Module w/ USB- Accepts DC voltage of .9V and outputs a stable 5V with indicator light.

ThermoBank pictures from development:

1st prototype





2nd all new redesign



