



User Tracker Watch

CYBERDOME CODE-VID-19

Introduction

On this situation of COVID19 we all are responsible to find ways that can control or cease the further spread of this devastating threat. First we thank CYBERDOME for providing a chance to contribute our knowledge in controlling this threat.

We are coming up with an idea of Non removable water proof digital watch which is having a live gps tracker. It also accomodate a Removal detection strap which prevent user from removing the watch at will. (The strap is non stretchy and the only way to remove the watch is breaking the strap, which inturns cut the GPS which alarms the admin)

The Goal is to track or prevent potentially infected people from moving outside their preferred isolated or living location and thus to prevent further spread.

We know that the spread begun in kerala by an italian indian emigrant who travelled through different places, attended functions and even interected with many other people in Kottayam, and also many of them are not willing to discuss about the places they visited or about their interactions.

This watch can effectively report the location and route making the tracking easier. (no need to ask the user, the entire time stamped route map will be available at admin website).

Why we choose watch for tracking?

We dont want the user to feel himself as alienated from the rest of the society as many may feel that they are considered different while seeing something attached to them, but a watch definitely feels like a gift and doesn't find it as a burdain to carry.

Each watch has a unique ID and user Address will be registered to it. This should be a mandatory process at Airport or at a Police station, for all who reach India from abroad.

It has a wide scope that it can effectively support us in Future similar situations also.

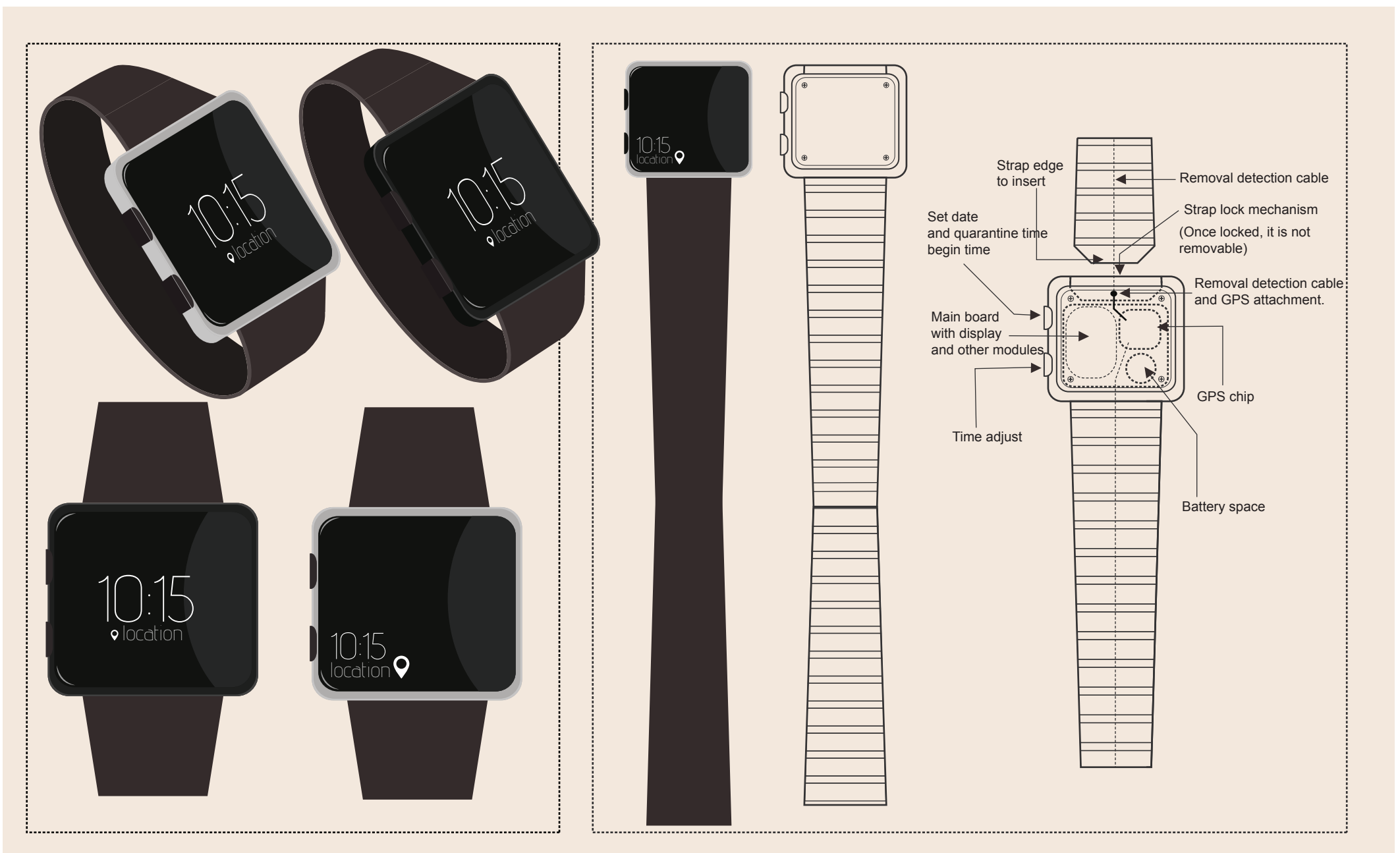
Objectives

- To develop a GPS enabled Non Removable watch to track the movement of user during quarantine period.
- To reduce the spread of deseases.
- water proof watch- As it may get damaged while user take bath etc..
- Modern and decent design to reduce feel of being tracked.
- Server admin can access gps location of the user.
- Removal detection- User can remove the watch only by breaking the strap. strap is having a cable insideand upon breaking it cuts the gps power. The loss of gps signal will alarm the admin that the watch has been removed.

Components

- Display screen
- Display Module
- Battery module
- GPS module
- Non stretchy fibre strap with removal detection cable inserted.
- Watch casing
- Strap locking mechanism.
- Strap cutter (used adjusting the strap size for new user)

Product



Cost Estimation

Basic digital watch production	200 RS
Non stretchy strap with cable inside production cost	30 RS
GPS module	150 RS
Lock system production cost	20 RS
Strap cutter for installation	30 RS
Battery Cost	100 RS
Total approximate cost	530+100=630 RS