

Conducive Environment for Children with Autism

Center for Empathic Human-Computer Interactions
De La Salle University

<http://cehci.dlsu.edu.ph>



- A spectrum of pervasive lifelong developmental disorders
- Characterized by impairments in three aspects:
 - Socio-emotional
 - Communication
 - Behaviour

What is Autism?



Source: <http://www.autismpinoy.com/>

- No definite cause has been identified
- No known cure
- Highly individualized instruction as the only intervention
- May be becoming more prevalent

Why Autism?



Source: <http://www.smartparenting.com.ph/>



People with
AUTISM have
natural affinity
with
computers.

Source: <http://www.specialedpost.org/>



Emotions and Feelings - Autism

Touch Autism - April 22, 2013

Education

Php133.52 Buy

+ Add to Wishlist

This app is compatible with all of your devices.

★★★★★ (4)

+63 Recommend this on Google



When I giggle and
make funny faces I feel silly.



Start the Story

Emotions and feelings

Read To Me

Read Myself



Back



Everybody feels different things
every day. I feel lots of different
things all in one day!





My Day With WH Words Story

Touch Autism - April 22, 2013

Education

Php133.52 Buy

Add to Wishlist

This app is compatible with all of your devices.

★★★★★ (1)

+16 Recommend this on Google

My Mom might ask me, "HOW" was your day? Or "HOW" are you?



This means was it a good or bad day, or do I feel good or bad.



I might say "I played with Jenny or my bus driver took me to school."



Start the Story

WH Questions

Read To Me

Read Myself



Grandpa might ask me "WHAT" I did that day.



A "what" question asks about a thing you do, or see.




Turn Taker - Autism

Touch Autism - October 31, 2010


Education

Php178.17 Buy

 Add to Wishlist

 This app is compatible with all of your devices.

★★★★★ (3)

 +23 Recommend this on Google



Opportunities

Conceptual Theory
of mind skills

Self-reported
empathy

Parent-reported
behaviour

Source: <http://www.autismsocietyphilippines.org/>



Empathic Space for Children with Autism

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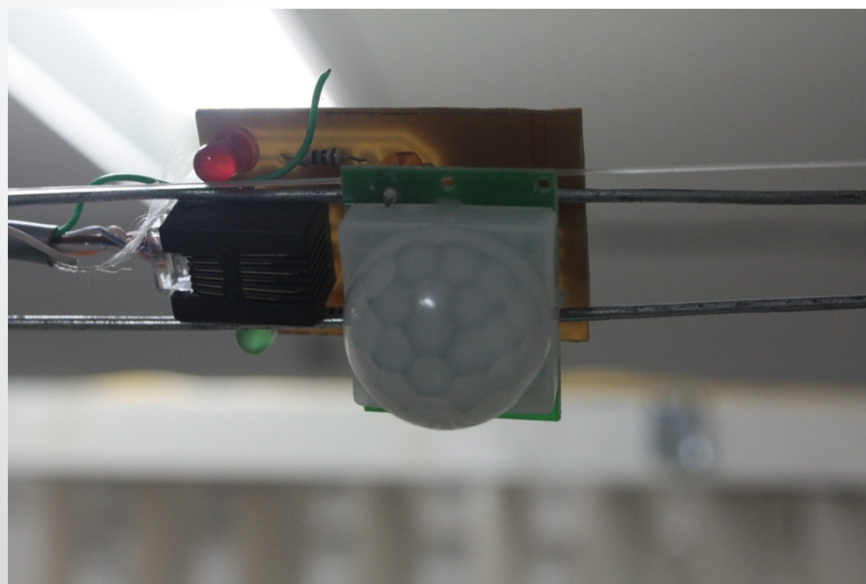
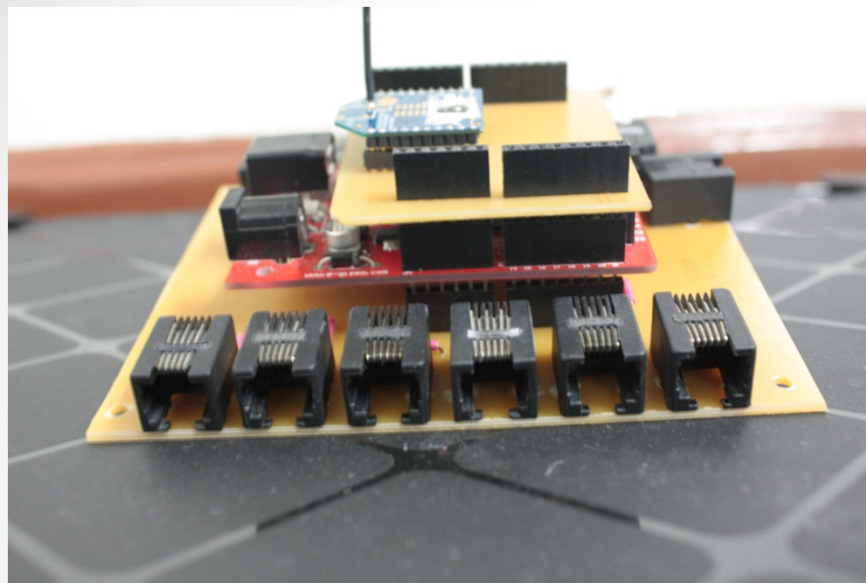
BEHAVIOUR MONITORING and MANAGEMENT



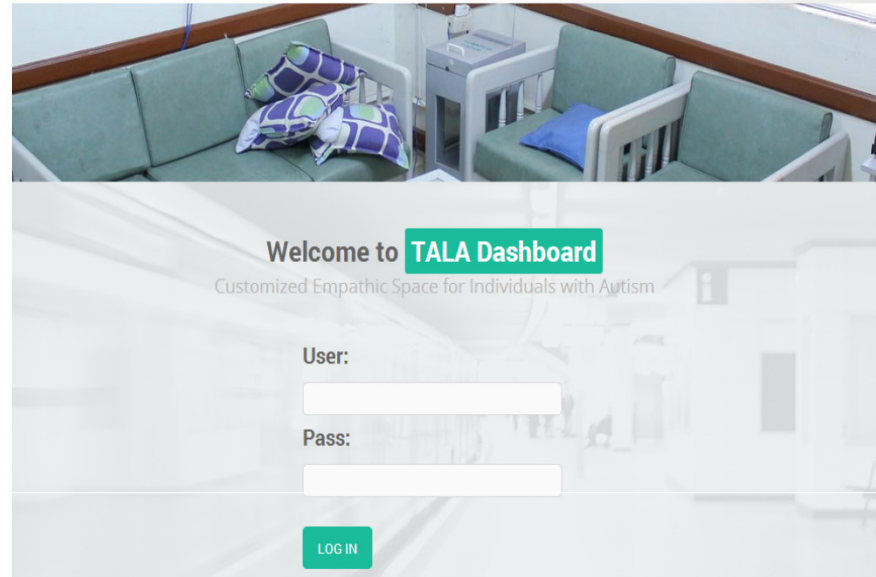
Empathic Room Layout












Sensors and Actuators




Dashboard



TALA Dashboard

HomeUsersDataDevicesEnvironmentRulesLogout

YOUR MOOD TODAY




Happy

TEMPERATURE

32°C

OTHERS

PUT ME

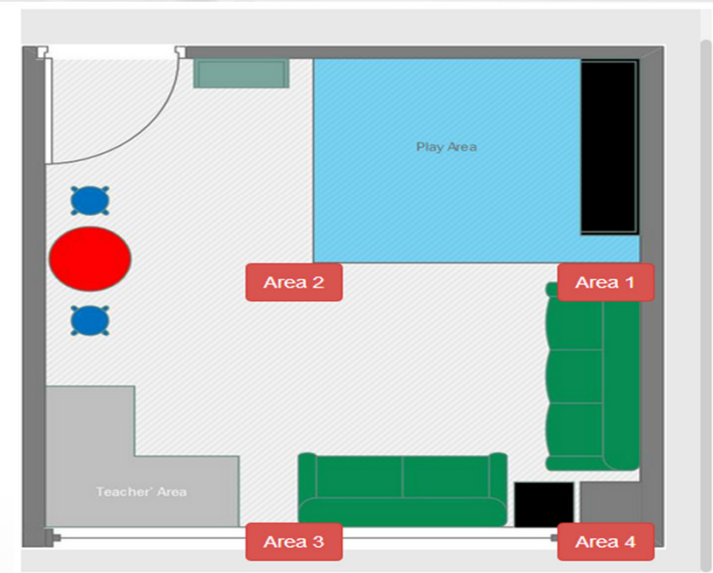


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1	5/23/2014 12:00:00 AM	13:43:00	View
2	11/20/2013 12:00:00 AM	17:20:00	View
3	11/8/2013 12:00:00 AM	12:36:00	View
4	11/5/2013 12:00:00 AM	12:55:00	View
5	10/1/2013 12:00:00 AM	14:16:00	View

Video Box: nothing to show right now



DEMO

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