

<b>Project Idea #1:</b> <i>Awesome Fitness Kiosk: Our fitness kiosk is designed to keep track of the user's physical health and also suggest activities to improve his/her overall physical health.</i>		
<b>Sensor parameter(s)</b>	<b>Sensor model number</b>	<b>Sensor purchase URL</b>
Weight	Load cell	<a href="https://www.amazon.in/Segolike-P">https://www.amazon.in/Segolike-P</a>
Finger print	Finger Print Sensor (R307) -TTL U	<a href="https://www.rhydolabz.com/miscell">https://www.rhydolabz.com/miscell</a>
Blood Oxygen and Pulse	SPO2 Sensor Probe for Pulse Oxim	<a href="https://www.sunrom.com/p/spo2-s">https://www.sunrom.com/p/spo2-s</a>
Height	Ultrasonic Distance Sensor - PWM	<a href="https://www.sunrom.com/p/ultraso">https://www.sunrom.com/p/ultraso</a>
<b>Training/Test Data Source</b>		
<b>What data do you need?</b>	<b>Data Source URL</b>	<b>Steps to generate test data</b>
Health Risks	<a href="https://symptoms.webmd.com/defa">https://symptoms.webmd.com/defa</a>	Will be determined from the senso
Fitness Routines	<a href="https://www.sixpackfactory.com">https://www.sixpackfactory.com</a>	Will be determined from the senso
<b>How will you do field testing/trials (i.e., testing in the actual environment)</b>		
<b>Equipment/resource required</b>	<b>What do you need it for?</b>	<b>How will you get access to this equipment/resource?</b>
Nexiton HMI display	To display information	Will be provided
Thermometer	To verify the temprature data acqu	Will be provided
Weighing Machine and Measuring	To verify the weight and height cal	Will be provided
--	Manual Measurment of Pulse Rate	No extra equipment required
<b>Is there additional hardware involved?</b>		
<b>What is the total power consumption of the circuit?</b>	<b>What is the power source for the circuit, mAH, watts?</b>	<b>Paste the schematic diagram in the adjacent sheet with notes here.</b>
<b>Functionality Summary</b>		
<b>Based on the following inputs (from sensor/Internet services):</b>	<b>the system will control the following outputs (actuator/UI/database):</b>	
Height , Weight,user profile	Personalised Exercise Routines	
Temprature,Blood oxygen levels,pulse rate	Possible Health Risks	