**WORKSHEET – 2**

**IDEA EVALUATION WORKSHEET- Based on 5q by Prof.EdRubaesch**

Q1. WHAT’S THE PROBLEM ?

1. IS IT REAL

Yes it is real.

1. HOW BIG IS THE PROBLEM

Although there are many tools, they cannot provide blind with all information and features for safe mobility.

1. WHEN DOES IT OCCUR

When the blind want to be independent.

1. FREQUENCY OF OCCURRENCE

In day-to-day life.

1. CURRENT SOLUTIONS

Google assistant.

Wayfindr app.

Q2. WHO HAS THE PROBLEM-customer identification

* PROFILE

Visually impaired.

* LIFESTYLE

Dependent.

* SEGMENT
* POSITION-CRITICALITY OF NEED

Find the obstacles.

Q3. WHAT’S YOUR SOLUTION

* WHATS YOUR UNIQUE PROPOSITION

Navigates the user by an application which gives audio instructions .

Detects fire using a flame sensor and alerts the user.

Sends an alert message to one of the guardian’s among the trusted contacts using GSM.

Q4. WHO IS COMPETITION

* HOW ARE YOU DIFFERENT

Even though there are high end technology for the visually impaired like- Google glasses, Navigation Guide, Guide dog robot.

These devices are not widely used. Our product is user friendly , tiny and portable and also easy to access.

More developments could be done around it by adding specific sensors and pair it with mechanical stick for self defence.

Q5. HOW IS IT MADE POSSIBLE-

* RESOURCES/ TECHNOLOGY/

Arduino (UNO/NANO)

Sensors- ultrasound, flame

Bluetooth module (HC05)

Buttons

Jumper wires

Power supply (5-12v)

App making tool (MIT)

GSM facility in app

* SOCIAL/ECOLOGICAL FEASABILTY

It is only useful for visually impaired people.

* Man,money ,machine,materials.

Man and machines are required are very less and price is 1500 to 2000.

IDEA EVALUATION- SUMUP

CUSTOMERS:

SIZE

Compact(stick).

TARGET

Experimenting the product through NGO’S to check the efficiency and finishing the final product by 2020.

COMPETITION

DIFFERENTIATOR

Obstacle detector.

GSM.

ECONOMIC FEASABILITY

1500 to 2000.

TECHNOLOGY NEEDED

Internet of things.

COMPETENCIES

KNOWLEDGE NEEDED

Interfacing(App-Bluetooth).

Trusted contacts.

SKILLS NEEDED

Consumer should be aware of “BRAILLE ” language.

NETWORK

NGO’S.

Blind school.