

4. Canvases





- AEIOU Canvas

AEIOU Summary	Group ID: G2	Date: 12-1-2022 Version : 1.0
	Domain Name: LPG Controller/ Monitor System	
Environment : Android Studio IDE Tinkercad Arduino IDE Firebase Console Kitchen Place where gas leakage needs to be controlled Place where LPG Cylinder is used	Interaction : Users - LPG Cylinder Users - Android App MQ2 Gas Sensor - Arduino MQ2 Gas Sensor – LPG Motor – Arduino Motor – LPG Solenoid Valve – Arduino Solenoid Valve – LPG Arduino – Firebase Firebase - Android	Objects : Arduino Board (UNO3) MQ2 Gas Sensor Load Cell Sensor Motor (DC Gear or Micro Servo) Solenoid Valve Buzzer Wi-Fi Module (ESP8266) Android Device Cylinder Bottle
Activities : Detects Gas Leakage Detects Weight of Remaining Gas. Monitoring of Daily Gas Usage. Automatic Turn off gas valve when it needed with help of Motor. Automatic Turn off gas when it needed with help of Solenoid Valve. Automatic Booking of Gas Cylinder with SMS/EMAIL. Showing Alert Notifications Displaying Charts of remain Gas/ Gas usages Generating Report of Gas Usages	Users : Household Users Restaurant's Kitchen Staff or Manager People who uses LPG Cylinder	

• Empathy Canvas

Design for : LPG Controller / Monitor System		Design By : G2 (306 & 315)	
Date: 19/01/2022		Version : 1.0	
USER Household users LPG Cylinder Users Restaurant Kitchen industry users		STACKHOLDER	
ACTIVITIES Detects Gas Leakage Displaying Charts of remain/ Usages of Gas Detects Weight Of Remaining Gas Report of Gas Usage Monitoring of Daily Gas Usage. Automatic Booking Turn off gas valve Through Motor/ Valve			
STORY BOARDING HAPPY User always forgot to turn off gas valve at the end of the day. With the help of App user can now turn off valve remotely with one click			
HAPPY User always make assumption about remain gas and gas usages. With the help of App user can now see visuals and exact report of remain gas and daily gas usages			

• Ideation Canvas

The ideanaut : Ideation Canvas		Project : LPG Controller / Monitor System		Team : G2 (306 & 315)	
 People Household users LPG Cylinder Users Restaurant Kitchen industry users					
 Activities Detects Gas Leakage Displaying Charts of remain/ Usages of Gas Detects Weight Of Remaining Gas Report of Gas Usages Monitoring of Daily Gas Usage. Turn off gas valve Through Motor/ Valve Auto Booking of Gas			 Situation/Context/Location Kitchen Safe & Durable Button Operated Automatic		
 Props/Possible Solution DC Gear Motor / Servo Solenoid Valve Load Cell Daily Report of Usage Future Prediction Automatic Booking Easy to use GUI Visuals/ charts in APP					

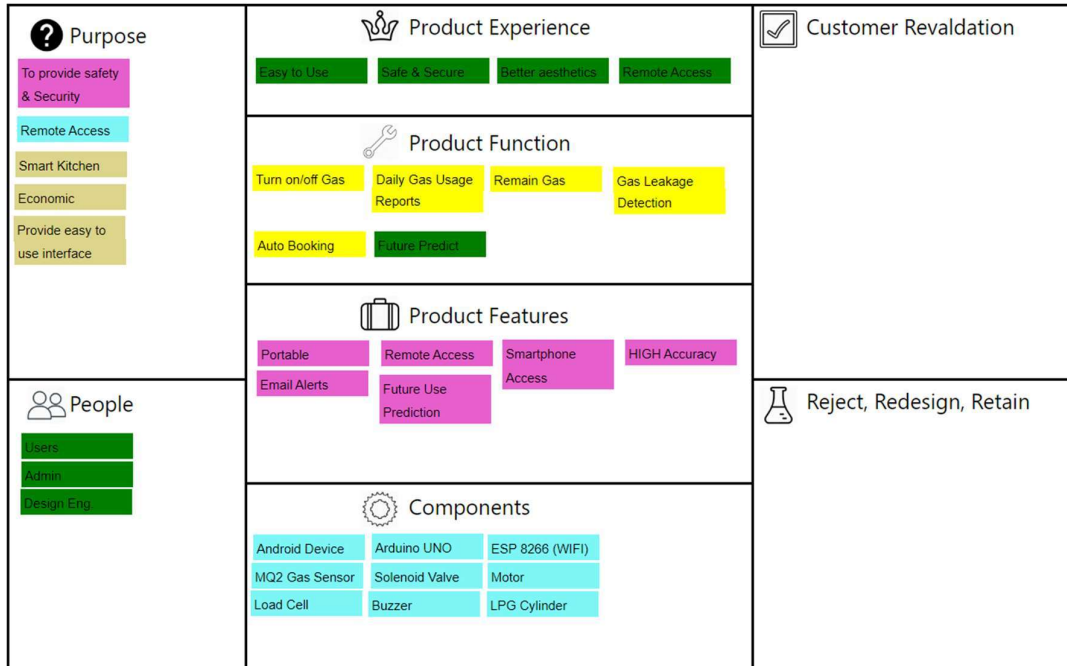
• Product Development Canvas

Product Development Canvas

Team : G2 (306 & 315)

Date : 19/01/2022

Version : 1.0



• Learning Need Matrix

