

RISC-V Product Development Hackathon:

Last date for Submission: **22 September 2023 (11:55 PM IST)**

Stage 1-Product Idea Submission Form

1. Product Title

Musical Song Generator

2. What does your product do?

- Music

3. What all interfaces of the board will used in the product ?

We will be using GPIO pins to control the buzzer.

4. Does the product utilise sensors?

- Yes

5. If "Yes" for above question, then list your sensors here

- a. Any kind of switch sensor which can take input from user

6. Draw a Block diagram of the product.



7. Upload the Algorithm flowchart of the product.

- *Start;*
- *Input from user from switch sensor;*
- *Play the music;*
- *Stop."*

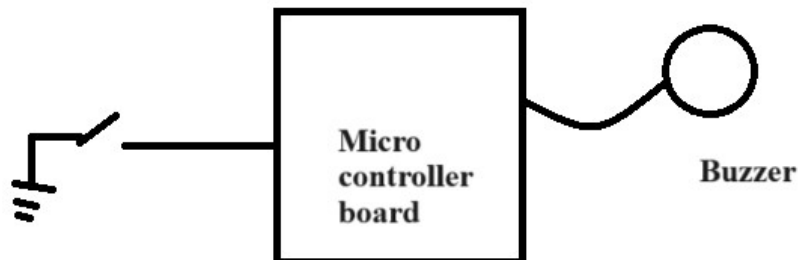
8. Explain the algorithm of the product in bullet points.

- *Start;*
- *Input from a user from switch sensor;*
- *Play the music;*
- *Stop.*

9. Draw a Rough sketch of the final product.



10.Upload the rough sketch of the Internal product (With all connection of components with the board and the product.).



11.BoM list (excluding the board) with cost.

Component name	Quantity Required	Unit price	Total Price (Unit price*Quantity)
Buzzer/Speaker	1	20	20
Simple Switch	1	5	5

12.Team details

Name	Univer sity/O rganis ation	Age	Gen der	Current Semester	Current Address	Do you need accommodation if the Demo is to done in Bangalore	Role in Product Development
Sumanto Kar	IITB	23	Male	2 nd year M. tech	Mumbai	NA	Captain