

THE SLINGSHOT PROJECT

Team members:

- Abdullah Alzafiri
- Abdullah Howaishel
- Mobarak Alsubaiee
- Dhary Aldhefeeri
- Fahad Alotaibi

Team member roles

- **Client contact: Abdulla Howaishel**

- In case the client needs to talk to the team about the project how it works.

- **Budget: Dhary Aldhefeeri**

- He will be responsible for working on finances as per the activities that our project have.

- **Website: Fahad Alotaibi**

- Responsible for designing our website ensuring that it has all information concerning our project and what we do.

Team member roles continuation...

- **Manager: Abdullah Alzafiri**

- His role will be writing down minutes for all meetings we shall hold. Setting up team meetings. Be sure everyone doing his part.

- **Documentary: Mobarak Alsubaiee**

- He is responsible for documenting the whole project and all its details

The wonder factory

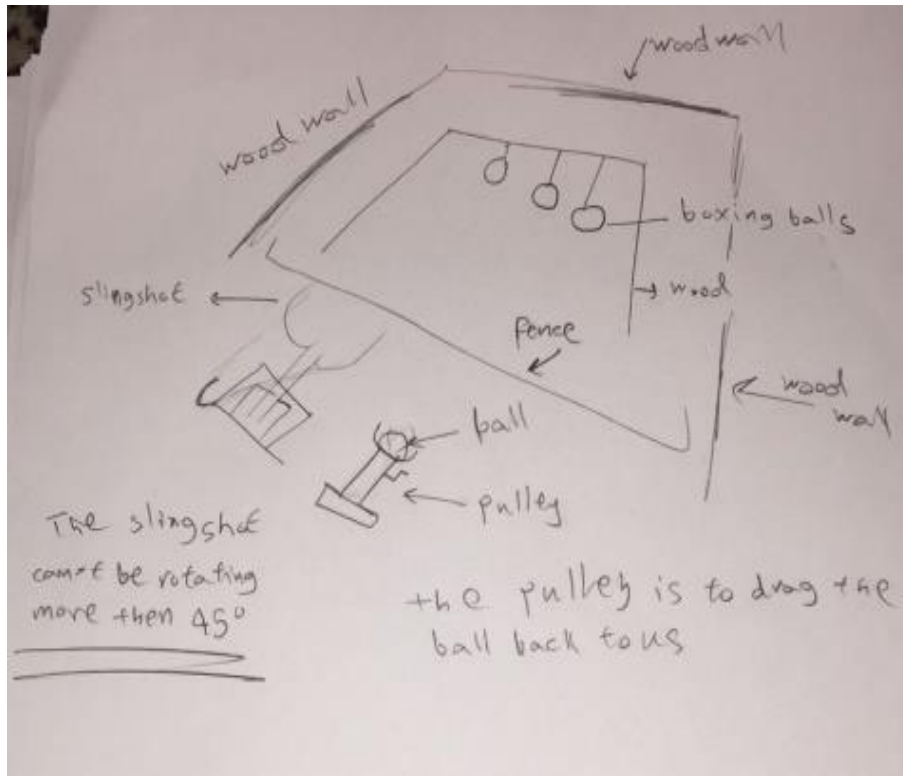
- Wonder Factory is our client organization.
- Our clients are Jackee and Steve Alston.
- It is an organization made up of parents and volunteers in Flagstaff getting an engineering and science center.

- They have interests in:
 - ❖ Hands-on education
 - ❖ Science, Technology, Engineering, and Mathematics and Art subjects
 - ❖ Wished for a location where their children would play and learn as well

The wonder factory continuation....

- Their approach in meeting the need of learning through play includes:
 - Bringing Science, Technology, Engineering, and Mathematics and Art subjects to as many people as possible
 - To ensure play that is safe and youthful
 - Provide space for people to design displays
- Provide space for interactive exhibits for fun for everyone

Project description



- This project will be about designing a game for children known as slingshot
- It will be designed in a way that it can work on itself without any human help
- The project will be designed to provide for:
 - ❖ Hands-on opportunity for children
 - ❖ Interactive experiences

Project description continuation...

- The slingshot will pass through the ball to hit a boxing ball held on the wooden pole
- For safety purposes it cannot rotate beyond 45 degrees
- At the front there will be a fence to keep the children away from going in front of the slingshot
- The fence will also assist in preventing the ball from going so far once it is rotated
- To enable the game to work on itself without human help we will create a pulley to drag back the slingshot through it again and again without human help

Background and benchmarking

- There have been many games for children that have been designed
- For our project we want to make it independent in that it will not need human effort to operate
- The project must also ensure safety, portability, simplicity of operation and usability

Advantages and disadvantages

Advantages	disadvantages
Challenging	High cost
Develop imagination	Hard to move
Improved concentration	inaccuracy in shooting

Customer requirements and weighting

Customer requirement	description	Weight
Safety	Anyone can use it without being exposed to any danger	5
Easy to use	It can be used without so much hustle	3
STEM concept	It must incorporate Science, Technology, Engineering, and Mathematics	4
Entertainment	It must have fun to use	3
portable	Easy to move from one location to another	3

Engineering requirements

Engineering requirement	description	
Fence safety	All the materials that used for this fence has to be from plastic and the edges must be not sharp	
Pulley	The pulley is used to pullout the ball again to the children	
Projectile	It must incorporate Science, Technology, Engineering, and Mathematics	
Disassembly	Make more prats to disassemble	
Weight	Every part should not weigh more than 20 Kg.	

References

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- [2] Pacific Science Center[Online]. Available: <https://www.pacificsciencecenter.org/the-sherlock-holmes-exhibition>
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QUESTIONS??????

THE END...
THANK YOU