**Literature Review**

**Save The Power – The Flavare(2016)**

Save The power is an android game available on google play-store. It has around 100+ downloads and a rating of 4.7 with just 23 reviews. This game is developed by “The Flavare” (Google Play Store 2015).

The game starts off with a menu screen which can be navigated and used for starting up the game, you are also given a text tutorial which explains the game’s objective. Before starting the game you are given 3 difficulty settings “Lazy”, “Serious”, “Insane” and each difficulty has its own obstacles. The difficulty setting can be a attractive feature for those who like a challenge and who like beating highscores.

When we start the game, it consists of only scenario such that it is 8:30 PM in the office, most of the people have already left for their home and some are still working in the office. But there are certain rooms in which no one is there and still the lights of the rooms are on. The player has been given a task to switch off the light of rooms where no one is present in order to prevent the wastage of electricity and if the player mistakenly chooses or click a room where people are still working then the game will end.

The developer of this game has also provided a time limit of 3000 milli seconds within which if a player fails to click a correct room then the game will automatically end due to time constraint. If a player clicks the correct rooms, more time will be added. To keep player motivated, the game consists of score board as well with each point a player saves 0.18 kwh of electricity.

However, the game lacks several things. For instance, the time constraint meter runs very fast due to which children will find it very difficult to play and game will end very quickly for them. The game has only one scene and theme. The game doesn’t have different levels to keep children attracted and engaged. Also, if we keep playing there is no end until we click a wrong room which means a child might have to play it for long time in case if they are playing well and it will not be good for their eyes. The game’s target is obviously not to target children but older people instead because of its complexity and difficulty.

**Defenders of Nature - Games From YovoGames!**

Defenders of Nature is an android game for children which helps them learn about the importance of nature and how to maintain cleanliness around us. The game consists of different levels. Each level provides different activities for children which will ultimately benefit the environment.

The game is developed by “yovogames” for children available on Google Play Store and it has 1000+ downloads with 4.5 average ratings from 84 users. The game starts with a simple menu and has multiple levels to go through.

It educates children about which environmental waste should go in which rubbish bin for recycling purpose. The game also emphasises on educating the children about gardening activities i.e. removing the dead plants and planting new tress. Providing sufficient water to each tree and flower to help them grow. It also educate children about saving water, a game level in which children have to remove rubbishes from the water and fix the leakage system.

But the game has few drawbacks as follows:

It doesn’t have score board or reward system or any progressive bar to catch the attention of children in order to motivate them in playing the game.

No appreciation for children doing well while playing the game.

Not enough help and direction provided to the children in order to help them in case if they stuck.

**Nature Warrior – Akshay Jhadav(2018)**

Nature warrior is a game which is developed to show the importance of maintaining the ecological balance by planting more and more trees around the city. So, throughout the game the developer has provided different types of trees that a player will have to plant according to the climatic condition to balance the environment. The developer has also provided a range bar with the help of which player will figure out whether the tree that he/she is planting is proper or not as per the climate. If a player keeps planting a wrong tree eventually the game will end.

Though the game is giving a good message and helping the player in educating them about the climatic threats we may face if we don’t have sufficient trees around us. But there are several issues with this game:

1)This game is not developed by keeping children in their mind since the speed of game is too fast which may be very difficult for the children.

2)The developer hasn’t specified name of the trees that player has to plant according to the seasons.

3)View and theme are same. Minimal climatic effects.

4)No different levels and scenarios.

5)If a player is playing well then there won’t be any end to this game which is not good for children.

6)Menu and interfaces are complex and messy.

7)Complex features: you can challenge your friend which requires you to use wifi hotspot and settings up with given ip address to connect to a friend. This will be very complicated for children to do so we know that their target is not for children.

**Save Water – Warmodroid (2015)**

Save water is an android game available on Google Play Store developed by “Warmroid” for children. The game is very simple to play and the idea behind this game is to teach children the importance of saving water. Since in most of the countries people has to face the problem of water shortage due to improper water management system. Saving the water during rainy season can be one of solution because the saved rainy water can be used for future purpose.

In this game a player has to collect the water droplets falling form sky and there is count meter which shows the score i.e. the amount of water droplets saved in a bucket and the amount of water droplets missed/wasted.

The concept of the game is good, but it lacks several things in terms of gaining the attention of children:

It has only one theme.

No different levels and scenarios, as there are many ways in which water can be saved.

Water droplets in the game falls very quickly which will be difficult for the child to catch them in a bucket and eventually he/she may lose the interest from the game.

Save Water – Kunals version

Type: Educational Game

Platform: Play Store

Developer: Warmodroid

Save water is an educational game that teaches kids to save water. The game can be downloaded from play store and was developed by Warmodroid who are located in India. The game is very simplistic and contains only one level. During the level the player can move the bucket left or right and the objective of the player is to collect as many water as they can into the bucket. Water droplets will be randomly dropping from the top of the screen and every time a water droplet is caught by the bucket, one point will be added to the top left corner labeled “Drops Saved:”. On the top right corner there is one more label called “Total Drops:” which identifies the number of total water droplets that were dropped. The game uses a static background image with no animations and has a raining soundtrack for the background. I have also noticed things such as there is no menu for the game, so the game’s level just launches straight away when opening the app. And lastly the game is locked to landscape mode which I think is understandable because you need a wider space for games like this. Although the game is very simplistic I still think there can be an appeal to players out there who like to beat their previous score so that is one quality that will bring players back to play the game.

**Protect The Tree – MoonBear LTD (2016)**

Protect The Tree is an android game available in google app store. The idea of this game is to educate children about the importance of saving trees from people who cut them for their benefit which leads to deforestation. As tree is very important for every living being on earth. To fight the pollution and to save the environment trees play vital role for us and also it is major contributor of ecological balance.

The game is being downloaded more than 100k+ times and has an average rating of 3.8/5.0 given by 2k+ users.

In this game the kid as a player has to protect the last tree from the group of enemies. In order to protect the tree, a player is being provided with options of several weapons which he/she can use to fight the enemies. There are several rounds in this game. With each round, enemies keep increasing and once the round is completed, a player is rewarded with the coins. A player has to collect maximum number of coins to purchase more lethal weapons which are costly. Advance weapons play vital role in killing enemies.

Protect The Trees is a good concept of educating the children about importance of saving trees but this game has few drawbacks:

Due to improper landscape it is difficult for children to place the weapon in right areas for killing the enemies.

Theme of the game is very confusing.