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**Module Code & Module Title**

**FC6P01NT - Final Year Project**

**Assessment Weightage & Type**

**10% Project artifact report**

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*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

### Review of similar systems

#### Colors & Shapes Game - Fun Learning Games for Kids

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Figure 10: Colors & Shapes Game- Fun Learning Games for Kids

Colors & Shapes Game is an education games for kindergarteners (age 2-6) years. This game includes educational games activities to teach kindergarteners about shapes & colors using vegetable/fruit and other real life household objects. Kids Learn Shapes & Colors is a fun and educational software that children will enjoy. The game's experience is enthralling to children since there is no winning or losing. The activities are meant to help kids learn shapes and colors while also expanding their early learning and discovering new sounds. Kindergarten children enjoy cartoon coloring pages, thus free coloring books are creative games for them which is included inside this game (Grey Springs, 2021).

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Figure 11: Specialties of Colors and Shapes games

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Figure 12: Some reviews on Colors and Shapes games

Table

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Figure 13: Additional Information on Colors and Shapes Games

#### Masha and the Bear: Water game

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Figure 14: Masha and the Bear: Water game

Masha and the Bear: Water Game is an educational game for kids whose age is 3-7. This is an easy educational game that will help player to learn colors, find the same items and make various puzzles. The characters from children’s favorite cartoons are use in this game to make it more fun and interesting for children (Hippo Kids Games, 2021).

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Figure 15: Specialty of Masha and The Bear: Water Game

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Figure 16: Some Reviews for Masha and the Bear: Water game

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Figure 17: Additional features of Masha and the Bear: Water Game

#### Adventure Academy

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Figure 18: Adventure Academy

Adventure Academy is an educational adventure game which is playable by the age group 6-12. In Adventure Academy, players will travel around the academy and solve the problems of math, science, grammar, etc. to level up. This game will increase the player knowledge about academy studies and also help them to increase their problem-solving skills. Not only kids but also the early teenagers are also suggested to play game (Age of Learning, 2021).

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Figure 19: Key Features of the Adventure Academy

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Figure 20: Reviews for Adventure Academy

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Figure 21: Additional Information for Adventure Academy

#### Baby Games for 1+ Toddlers

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Figure 22: Baby Game for 1+ Toddlers

Baby Games for 1+ Toddlers is a game application for kids of the age group of 2-4 years. In this game, Kids will learn colors, shapes and follow through simple thematic stories. Like caring for cute animals, or sorting things by size, color and shapes (kidsEducational, 2022).

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Figure 23: Specialty of Baby Games

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Figure 24: Reviews on Baby Games

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Figure 25: Additional Information on Baby Games

#### Toddler Games for 2–3-Year-Old

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Figure 26: Toddler Games 2–3-Year-Old

Toddler Games for 2–3-Year-Old is education game for kids of age group 2-5 years. Kidlo Toddler Games includes puzzles, popping bubble games, coloring, join the dots, dress up, match the pairs, sorting, tracing games and more. These games will boost cognitive skills, hand-eye coordination, concentration, and imagination of children (IDZ Digital Private Limited, 2022).

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Figure 27: Specialty of Toddler Games for 2-3-years old

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Figure 28: Additional Feature of Toddler games for age of 2-3 years old

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Figure 29: Reviews on Toddler Game for 2-3-years old

### Comparison

#### Comparison between Similar Systems

All three games are educational games aimed at various age groups. They were all posted to the Play Store. Many people enjoy these games, and many of them have received great reviews. All of these games are developed by various companies and have different game ideas. Each one of these games has different educational component to it. All of the games are designed with the age range of children in consideration. Below is a comparison of the features of these games with my game:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Comparison List | | | | | | |
| Features | My Game | Colors and Shapes Games | Masha and the Bear | Adventure Baby Game Toddler Games  Academy | | |
| 2D or 3D | 2D | 2D | 2D | 2D | 2D | 2D |
| For Age group | 13 and above | 2-6 years | 3-7 | 8-12 | 2-4 | 2-5 |
| Education About | Newton’s law of motion and Physics | Colors and Shapes | Colors and Items | Math, Science and Grammar | Colors, shapes and animals | Puzzles and colors |
| Mobile Application | No | Yes | Yes | Yes | Yes | Yes |
| Windows | Yes | No | No | No | No | No |
| Solo game | Yes | No | No | No | No | No |
| AI | Yes | No | No | No | No | No |
| Levels | Yes | Yes | Yes | Yes | Yes | Yes |

Table 1: Comparison List Table

#### Conclusion from Similar System

Analyzing the similar the other similar application can reveal the result of the difference between the features application. All of the educational games mentioned above for comparison came from the Google Play store. They were highly rated by users, so I believe my application is just as useful as all of the applications mentioned above.

When compared to similar applications, my application has more and some additional unique features that make it more interesting.