

SUMMER PROJECT ON

TAP-TAP Bt21

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Under the guidance of

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Dec 9, 2021

Garvita Sapra

has successfully completed

Create Your First Game with Python

an online non-credit course authorized by Coursera Project Network and offered through
Coursera

A stylized, handwritten signature in black ink, appearing to read "Amit Yadav".

Amit Yadav
Instructor
Machine Learning and Data Science

**COURSE
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ACKNOWLEDGEMENT

I GARVITA SAPRA, Enrolment No. 00824302019 from BCA-V Sem, Shift Evening of the Sirifort Institute of Management Studies, Delhi hereby declare that the Dissertation (BCA-357) entitled Tap-Tap Bt21 at android game development is an original work and the same has not been submitted to any other Institute for the award of any other degree. A presentation of the Dissertation was made by me, and the suggestions as approved by the faculty were duly incorporated.

Date: 9 dec 2021

Certified that the Dissertation submitted in partial fulfilment of **Bachelor of Computer Applications (BCA)** to be awarded by G.G.S.I.P. University, Delhi by Sirifort Institute of Management Studies, Enrolment No.00824302019 has been completed under my guidance and is Satisfactory.

Date: 9 dec 2021

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Tap – Tap BT21

Chapter 1: Introduction

The game named TAP-TAP BT21 is developed via python language and it has situated as a new version of the card matching game having the cartoon characters of the South Korean boy band (K-pop band) acknowledged as Bangtan Sonyeondan aka BTS.

The characters used in the game are deprived from the animated toon UNIVERSTAR BT21 which is the first project of LINE FRIENDS CREATORS. ... Rather than simply creating avatars of the physical appearance of artists, BT21 consists of 8 different charming characters created by BTS members, where all of them actively participated in the whole process from drawing sketches to elaboration. The description of the characters is mentioned below.

Further, this game will comprise of 16 cards to match, having 4 cards in a row and 8 different images. The player needs not to share any personal information with the developer as the game requires no login.

1.1

Objective:

- To improve the memory with this fun card matching game
- To train the mind
- To connect your memory and make every picture match
- Helps to manage short-term memory and speed recognition skills
- To mend and improve your memory skills with TAP-TAP Bt21 game

Chapter 2: Game Details

2.1

Features:

- Cool and playful graphics
- Matching pairs of cards

2.2

How to play:

The goal is to quickly memorize the location of each image, then flip the cards back over to match the pairs.

Rules are simple, player just have to match all the same cards in order to win but with a twist that they can't see the cards.

One can tap twice to match the cards and if the cards are similar, they will disappear but what if the cards aren't same?

Both the cards will turn around and the player will get another chance to tap on the cards to match them again. Previous cards will turn around at the third tap itself.

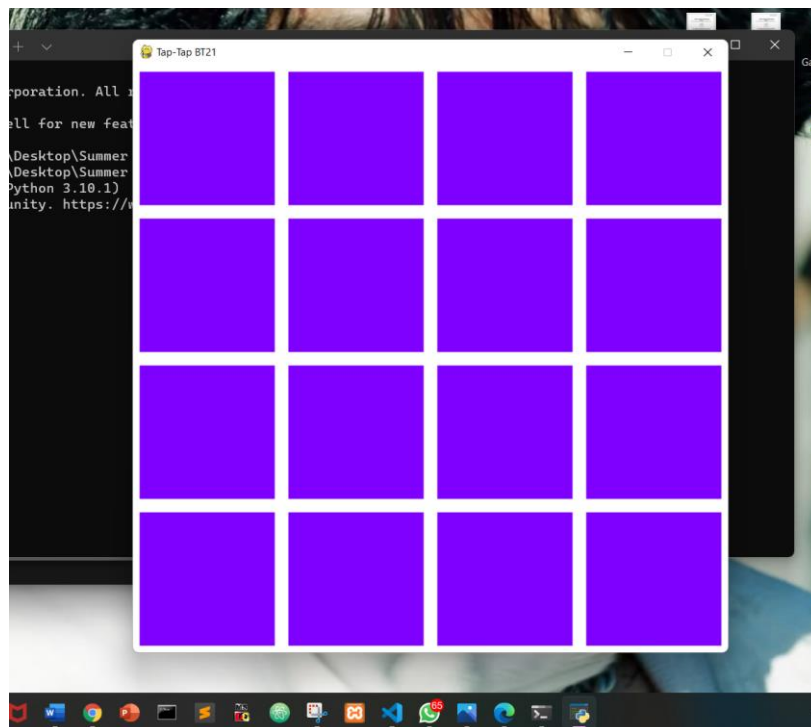
Chapter 3: Project Category

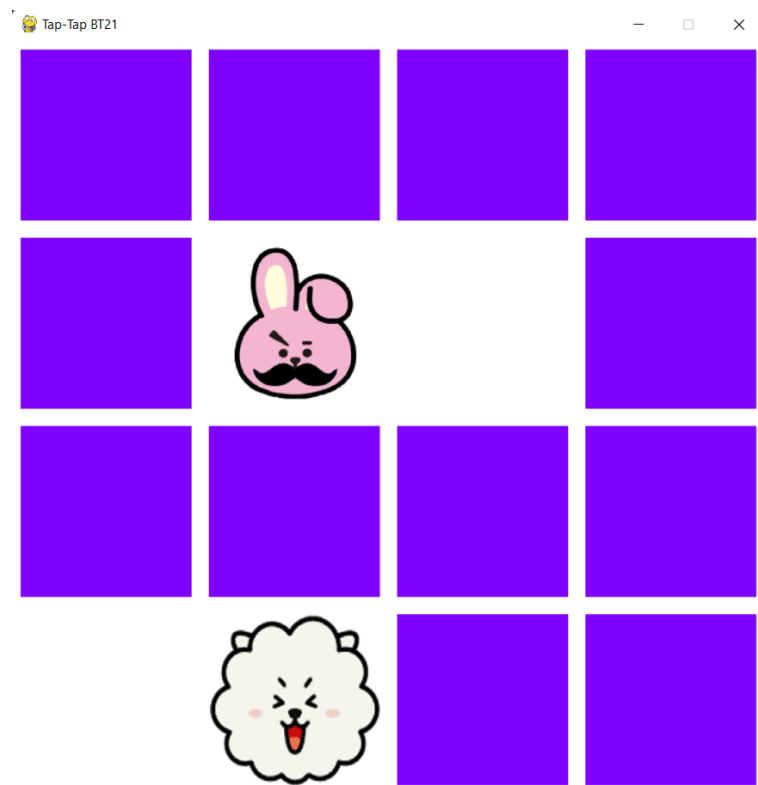
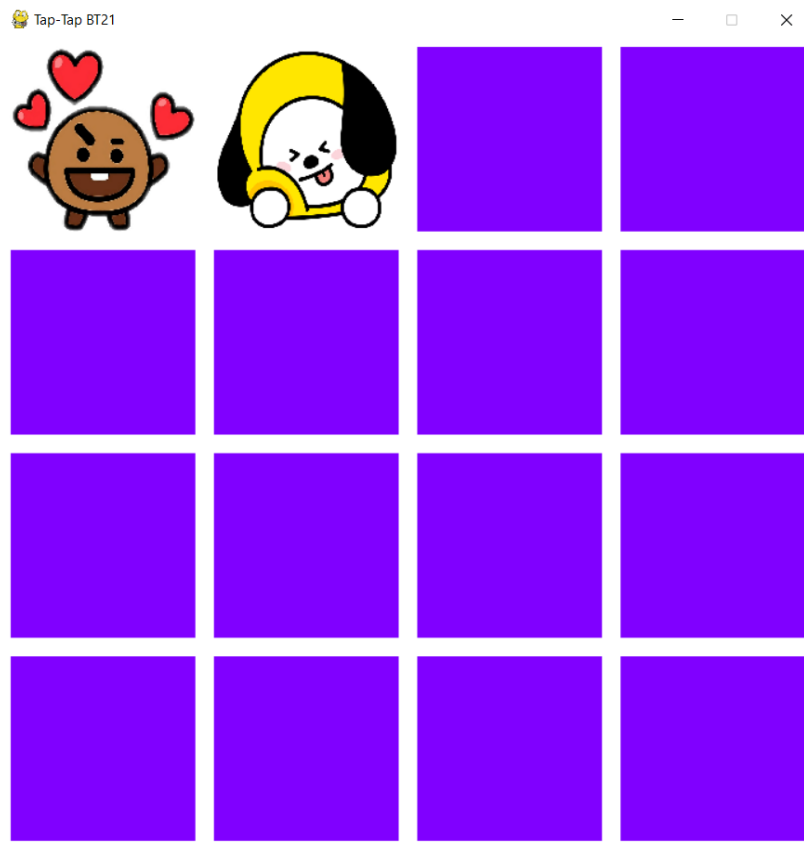
Game development with Python

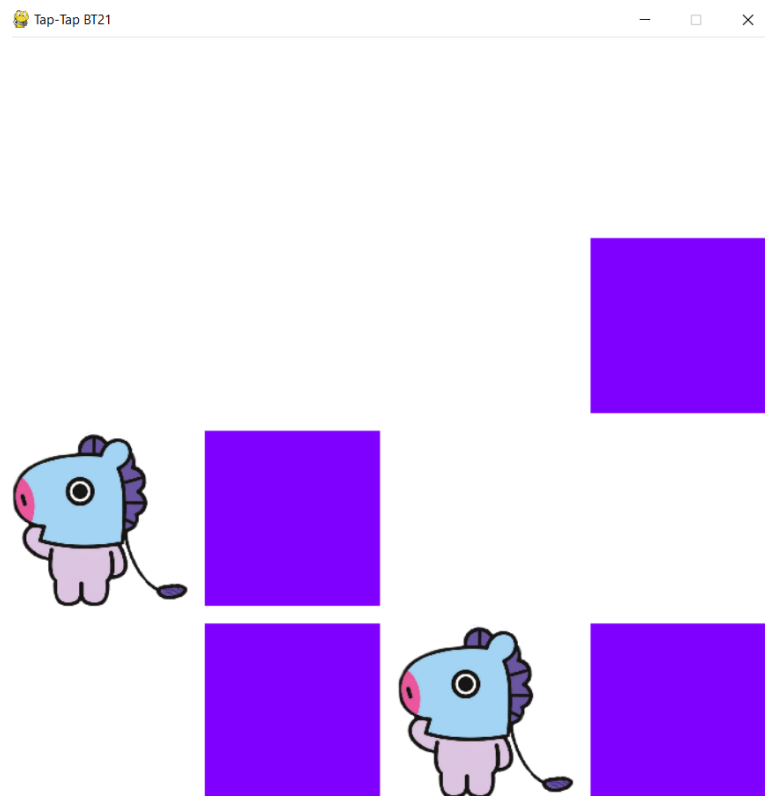
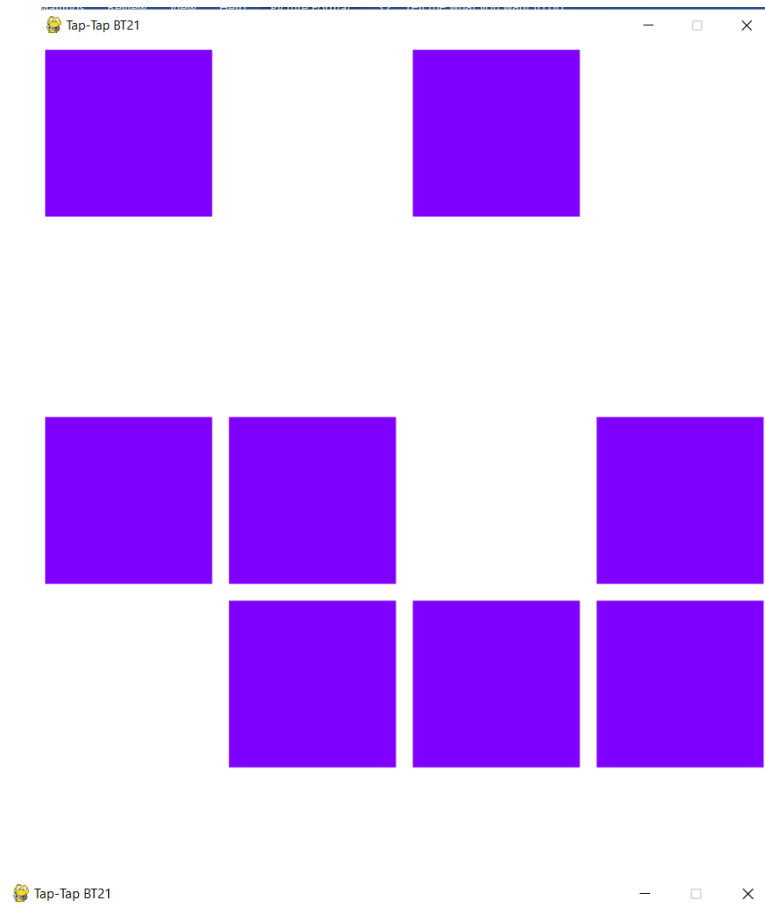
Chapter 4: System Design

4.1

Interface design







The word "BiNGO" is rendered in a playful, 3D bubble font. The letters are colored in a pastel palette: 'B' is pink, 'i' is purple, 'N' is cyan, 'G' is pink, and 'O' is purple. Each letter has a slight drop shadow, giving it a three-dimensional appearance.

Chapter 5: Module used

Pygame

OS

Chapter 6: Characters used:

Gifted sleepyhead

KOYA



Brilliant, multi-talented KOYA is quite the 'sleeping cutie'. KOYA naps with a mind heavily filled with thoughts. #talented #pillow #droopyeyes #removableears

CREATED BY:

Kim Namjoon aka RM

Kind, loving, foodie

RJ



RJ loves cooking. RJ loves eating. It's usually in that order. The fluffy fur coat and compassionate soul make everyone feel right at home. #greetings #gentlesoul #parka #omnomnom

CREATED BY:

Kim Seok-Jin aka JIN

Mini prankster

SHOOKY



Tiny SHOOKY loves pulling pranks, especially ones dropped on friends. The one thing SHOOKY hates most is milk. #fun #manyfaces #mini #CRUNCHYSQUAD

CREATED BY:

Min Yoongi aka SUGA

An off-the-wall, curious soul, Prince

TATA



TATA is a crown prince on Planet BT. Possessor of supernatural powers and a hyper-elastic body that stretches to great lengths. #PlanetBT #offthewall #superpowers #Prince

CREATED BY:

Kim Tae-Hyung aka V

Mystery dancer

MANG



Dancing runs in MANG's veins. Wherever there's music, MANG's probably there breaking out some cool moves. Veiled under a mask, MANG's true identity remains a secret. #heartshapednose #mask #mystery #bestdancer

CREATED BY:

Jung Hoseok aka J-Hope

The pure-at-heart

CHIMMY



CHIMMY always sports the signature yellow hoodie and is compelled to work hard on anything that catches CHIMMY's attention. #passion #workhard #playhard #harmonica #yellowhoodie

CREATED BY:

Park Jimin aka JIMIN

Brawny, hearty rumps

COOKY



Don't let COOKY's perky appearance fool you. Always full of heart and boundless stamina, COOKY's that one friend you can always count on. #unbalanced #eyebrows #loyal #imaginarymuscles #wisecracker

CREATED BY:

Jeon Jeongguk aka Jungkook

Guardian space robot

VAN



The sentient and all-knowing robot VAN seems to be knowledgeable in just about everything in the galaxy. Acts as protector of BT21, 24/7. #guardian #vehicle #transforming #robot

CREATED BY:

LINE Friends' designers

REPRESENTS: ARMY (fandom)