

"Minds Matter, Smiles Flourish"

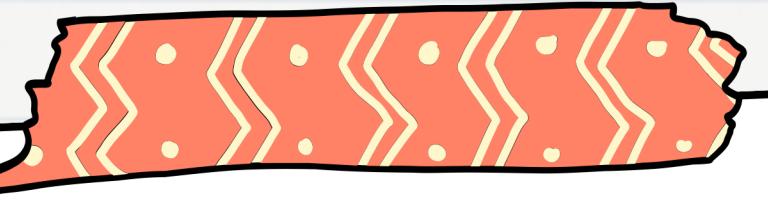
MindGuru

Presented by: TMP-2023-24-113

Our Team

- Mr. Koliya Pulasinghe
- Ms. Wishalya Thissera
- Wijesinghe M.A.E.(Leader)
- H.D.D.P.Jayasinghe
- Abeywickrama S.A.
- Gayashan K.L.





Introduction

"WELCOME TO MINDGURU, YOUR TRUSTED COMPANION FOR NURTURING YOUR CHILD'S MENTAL WELL-BEING. OUR APP IS A CARING AND COMPREHENSIVE SOLUTION DESIGNED TO DETECT AND TREAT CHILDHOOD ANXIETY, ADHD, AND OCD. WITH THE POWER OF CUTTING-EDGE TECHNOLOGY AND EXPERT GUIDANCE, WE'RE HERE TO PROVIDE EARLY DETECTION AND EFFECTIVE TREATMENT TO HELP YOUR CHILD THRIVE. DISCOVER A WORLD OF SUPPORT, UNDERSTANDING, AND HOPE WITH MINDGURU, BECAUSE EVERY CHILD DESERVES A HAPPY AND HEALTHY FUTURE."



Main Objective

"INTRODUCING AN INNOVATIVE APP THAT'S DEDICATED TO UNDERSTANDING AND ADDRESSING THE UNIQUE NEEDS OF CHILDREN FACING ANXIETY, ADHD, AND OCD. OUR PLATFORM OFFERS A COMPASSIONATE AND ACCESSIBLE APPROACH TO DETECT AND TREAT THESE CHALLENGES IN CHILDREN. WE BELIEVE IN CREATING A NURTURING SPACE WHERE CHILDREN CAN EXPLORE THEIR EMOTIONS AND WELL-BEING, PROVIDING SUPPORT AND GUIDANCE EVERY STEP OF THE WAY. AT MINDGURU, WE'RE COMMITTED TO EMPOWERING YOUNG MINDS TO MANAGE ANXIETY, ADHD, AND OCD, AND EMBARK ON A PATH TO HAPPIER, HEALTHIER LIVES."



Sub Objectives

Progress Tracking

Implement a system for tracking and monitoring a child's progress throughout their treatment journey.

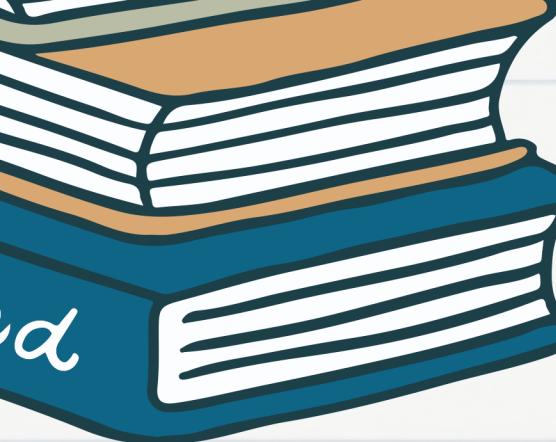
Personalized Treatment Plans

Create tailored treatment plans for each child, taking into account their specific needs and circumstances.

Therapeutic Activities

Incorporate therapeutic activities, games, and exercises to engage and support children in managing their conditions.





Research Questions

- 1. WHAT IS THE PREVALENCE OF ANXIETY, ADHD, AND OCD IN CHILDREN IN THE TARGET DEMOGRAPHIC?**
 - 2. HOW EFFECTIVE ARE MOBILE APPS IN HELPING CHILDREN MANAGE ANXIETY, ADHD, AND OCD?**
 - 3. HOW DO CHILDREN AND CAREGIVERS PERCEIVE AND ENGAGE WITH APP-BASED TREATMENT FOR MENTAL HEALTH CONDITIONS?**
 - 4. HOW CAN APP-BASED TREATMENT PLANS BE TAILORED TO THE INDIVIDUAL NEEDS AND PREFERENCES OF EACH CHILD?**
 - 5. HOW CAN THE APP SUPPORT LONG-TERM MONITORING AND RELAPSE PREVENTION FOR CHILDREN WITH ANXIETY, ADHD, AND OCD?**
- 

Wijesinghe M.A.E.

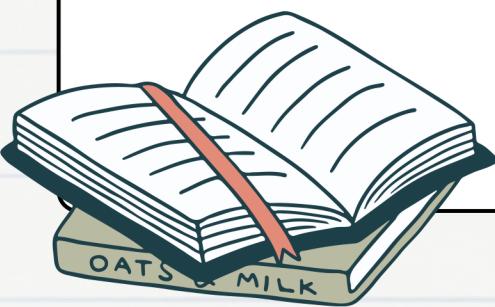
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Information Technology



MAIN OBJECTIVE

- IDENTIFYING WHETHER A KID UNDER AGE 10 HAS OCD OR NOT AND RELEASING TREATMENTS.



SUB OBJECTIVES

- 1.CREATING A QUIZ TO COLLECT DATA FROM KIDS ; AND GAMES THOSE ARE SPECIALLY UNIQUE TO DIFFERENT OCD VARIANTS ; AFTER IDENTIFYING THAT THE CHILD HAS OCD, HERE ARE GAMES FOR COUNTING,WASHING HANDS AND ORGANIZING OBJECTS TO TRACK THE PROGRESS OF THAT CHILD.
- 2.RELEASE TREATMENTS AND INSTRUCTIONS FOR THE HEALING PROCESS.

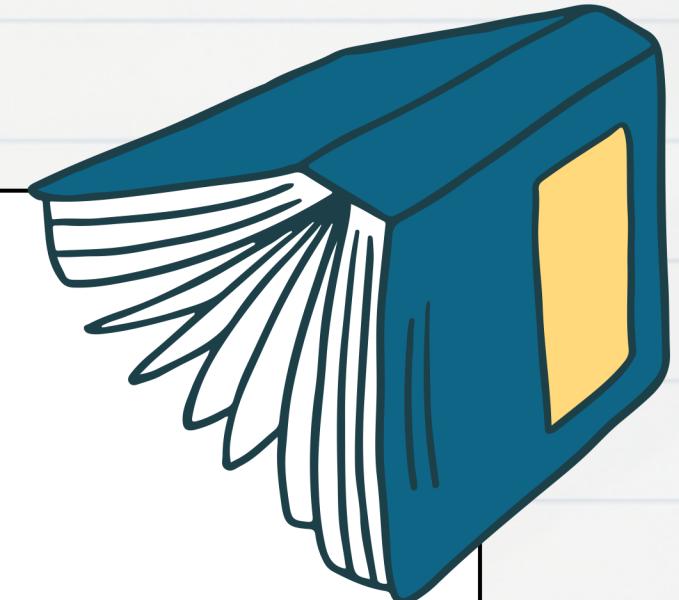
PROGRESS

Current Progress

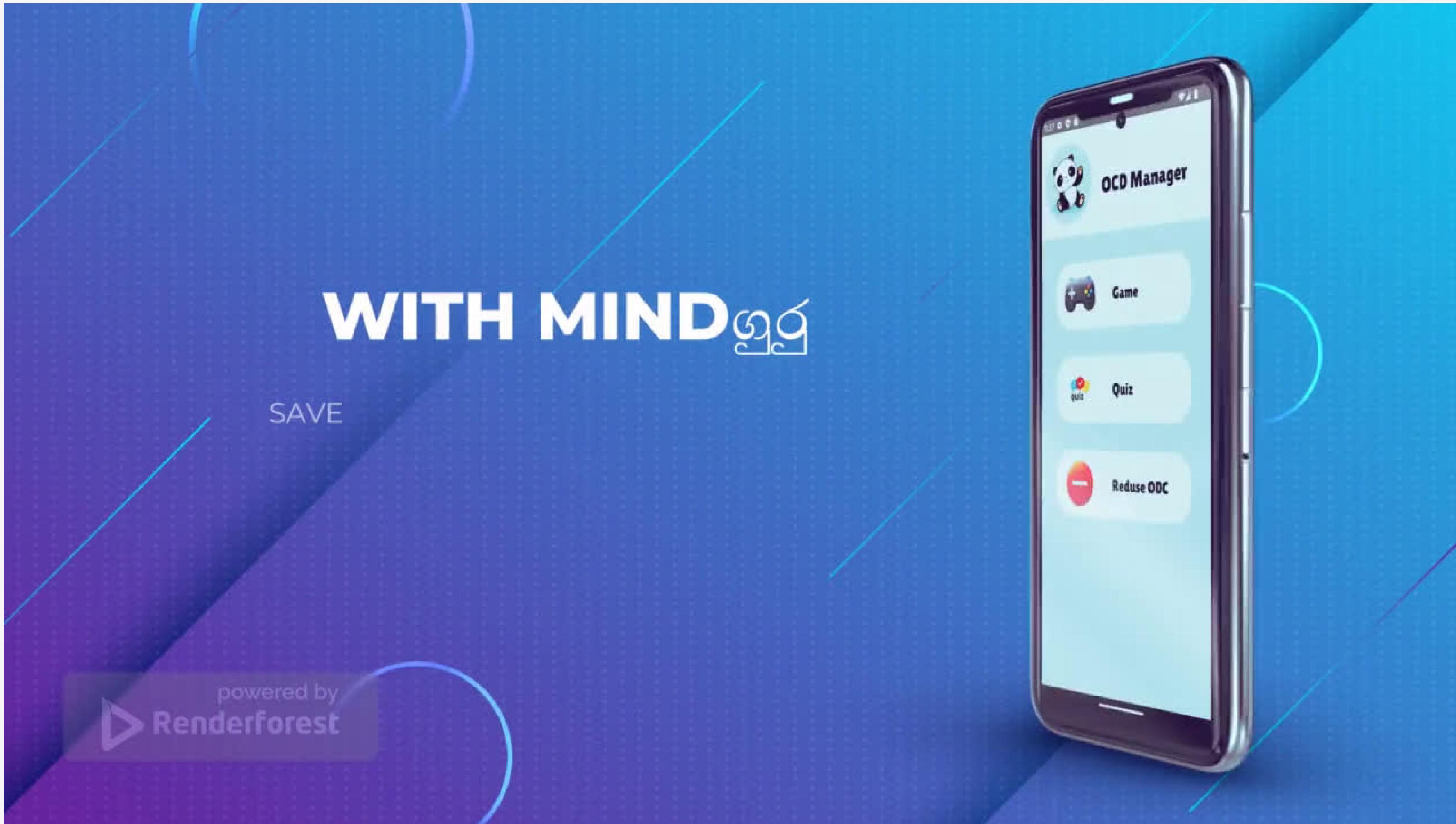
- Collected datasets that relevant to OCD
- Created the Frontend web application

Future Implementations

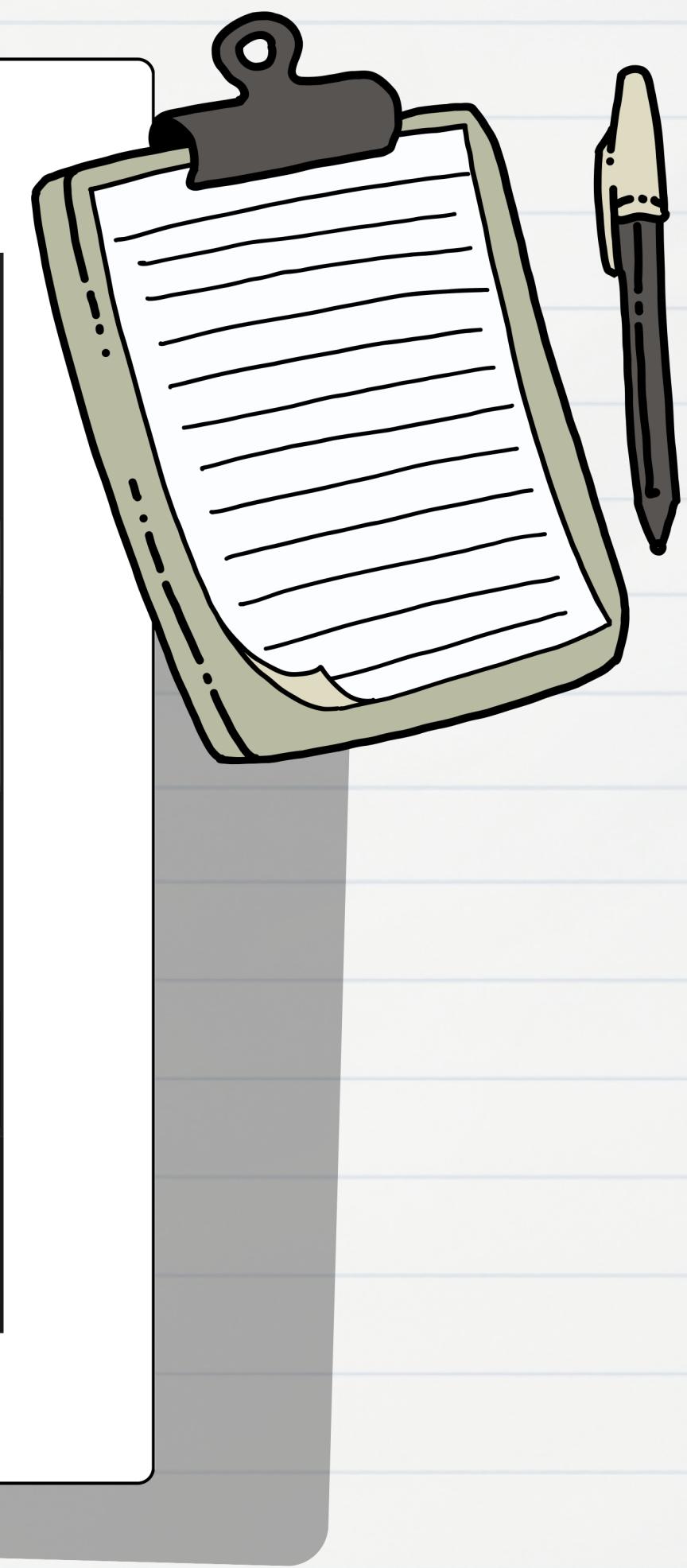
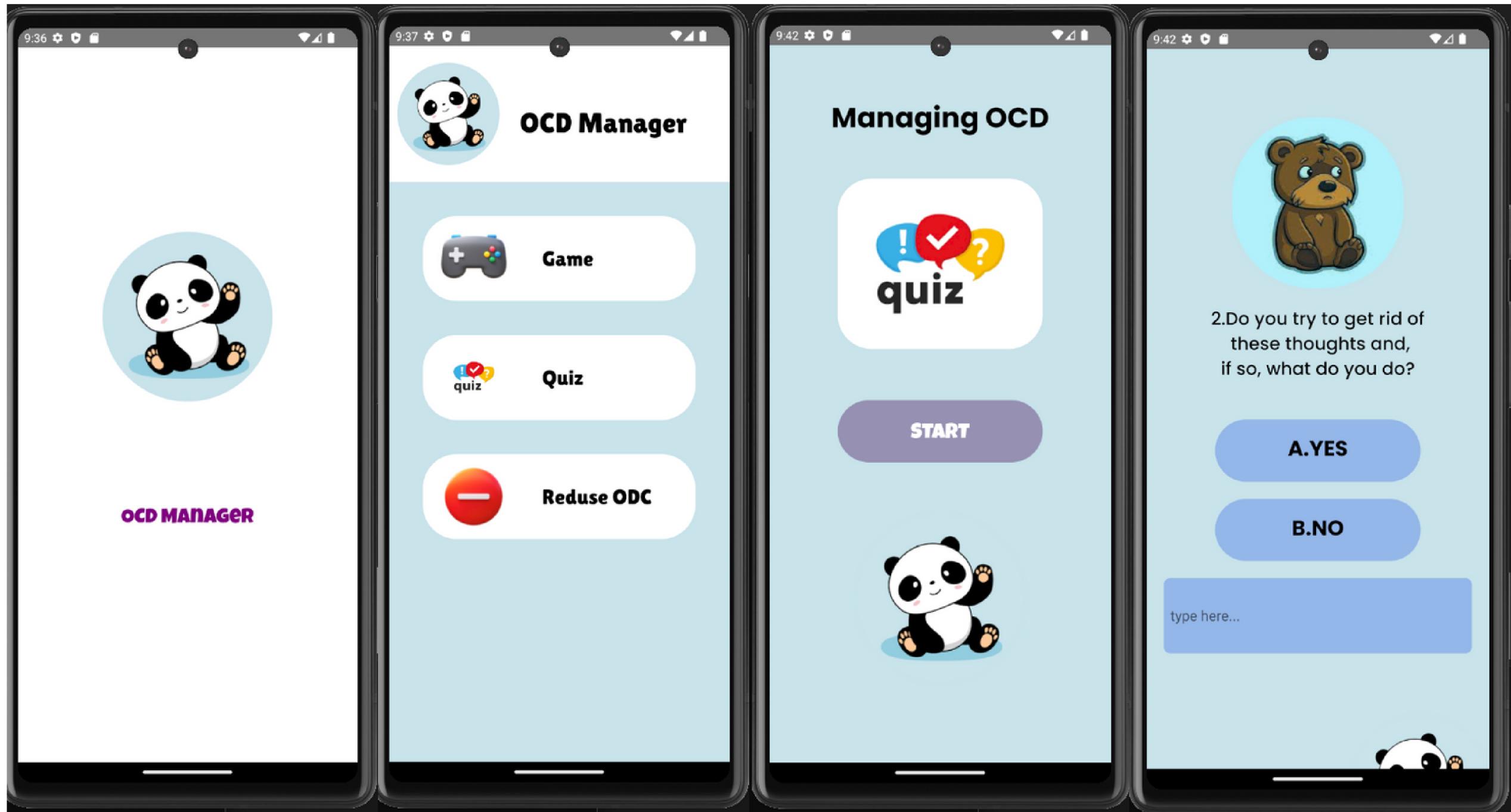
- Expand datasets.
- Preprocessed data.
- Created a model and trained the model to get the predictions.
- Develop and improve the mobile application.
- Publish the application



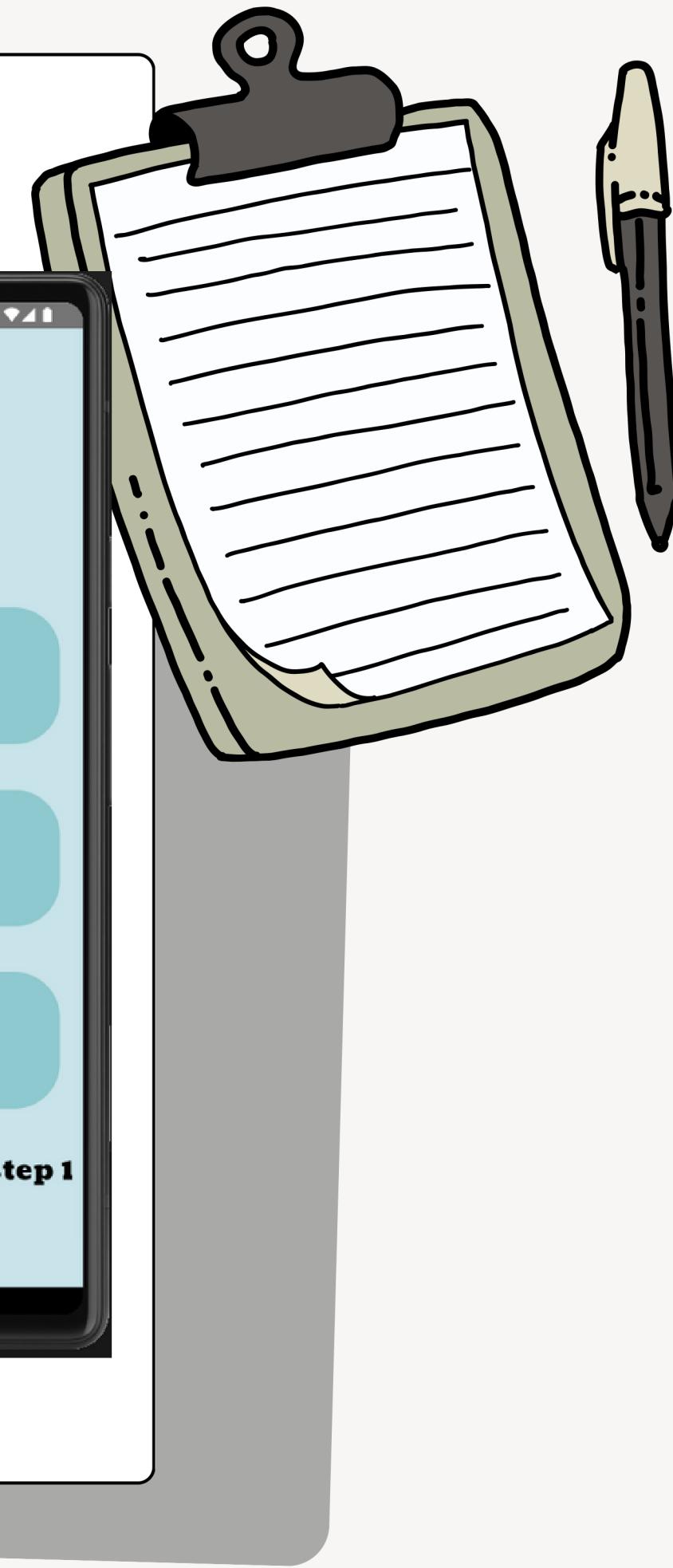
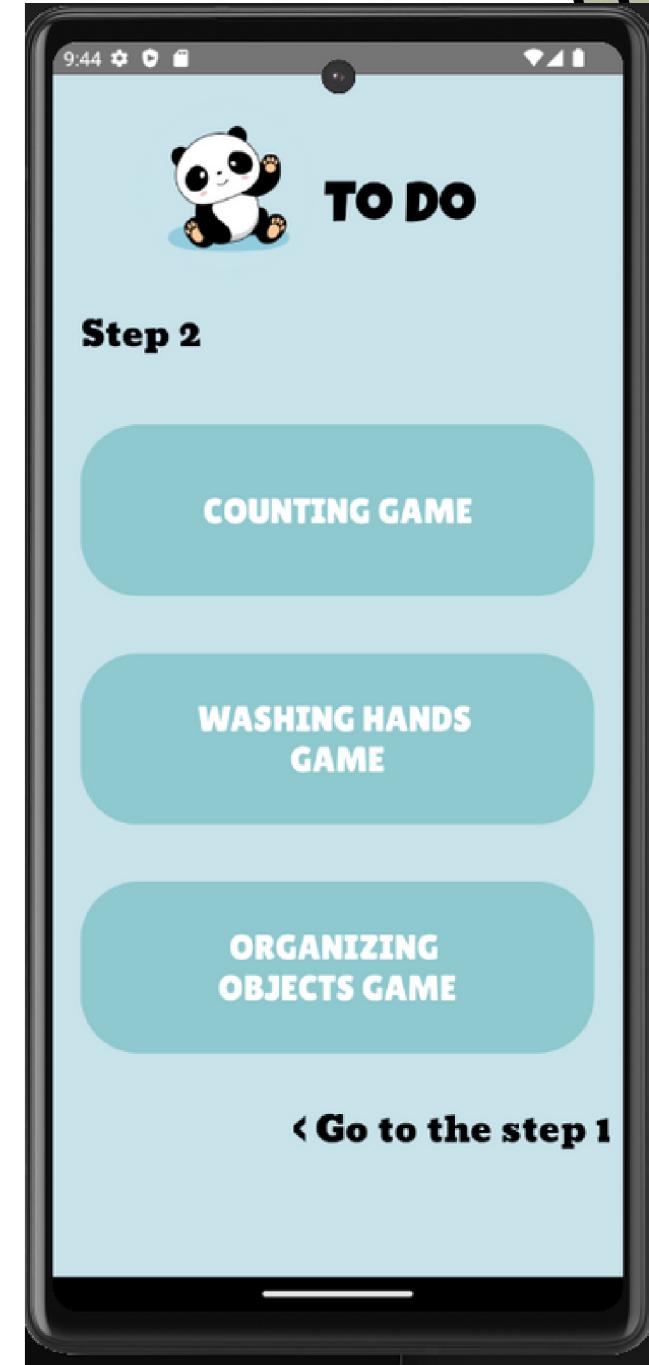
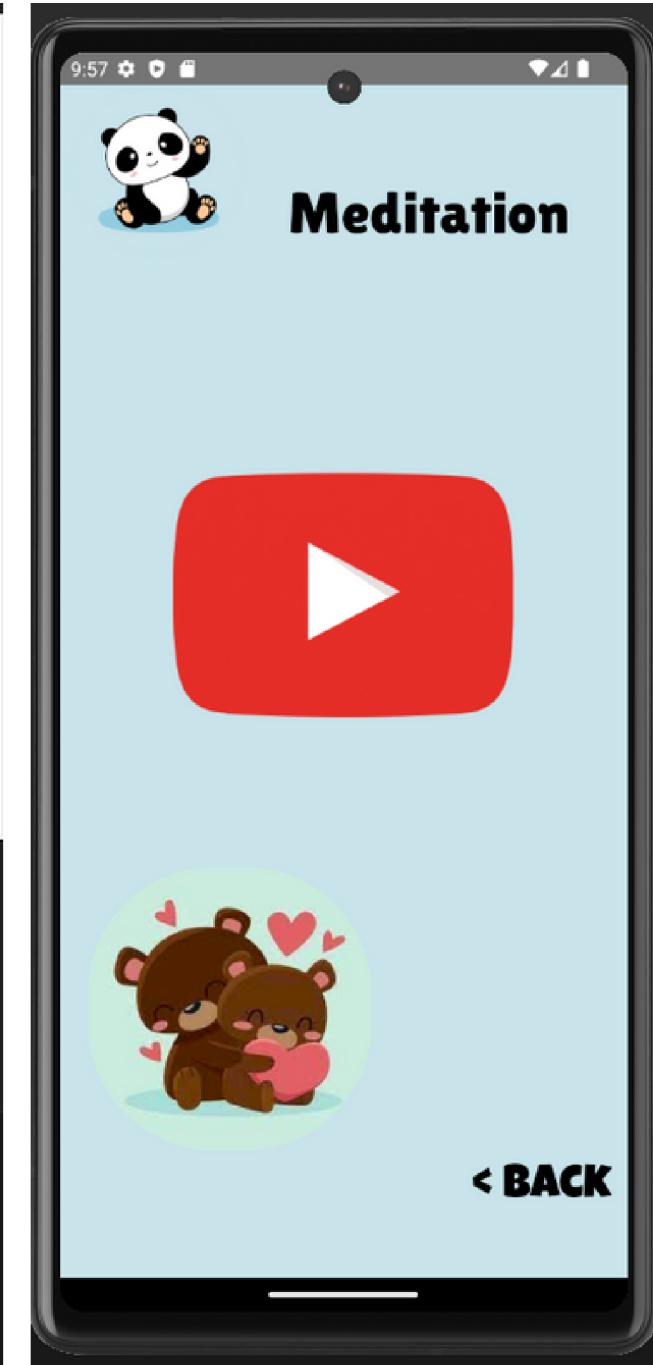
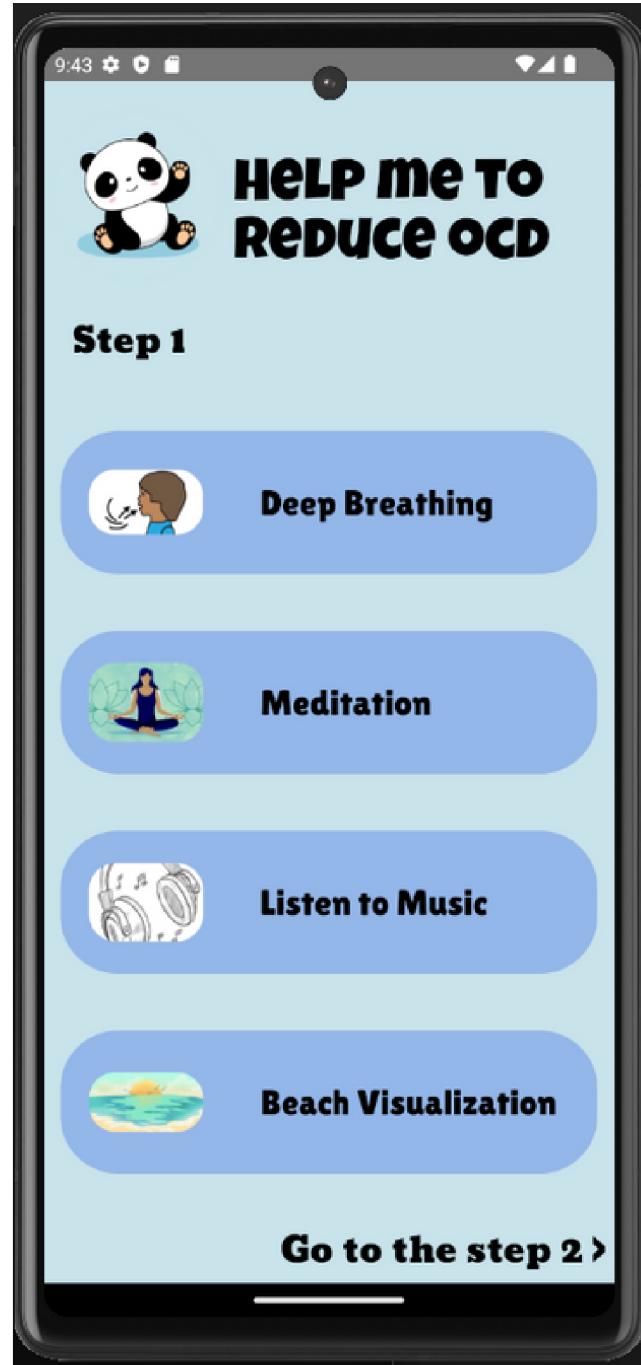
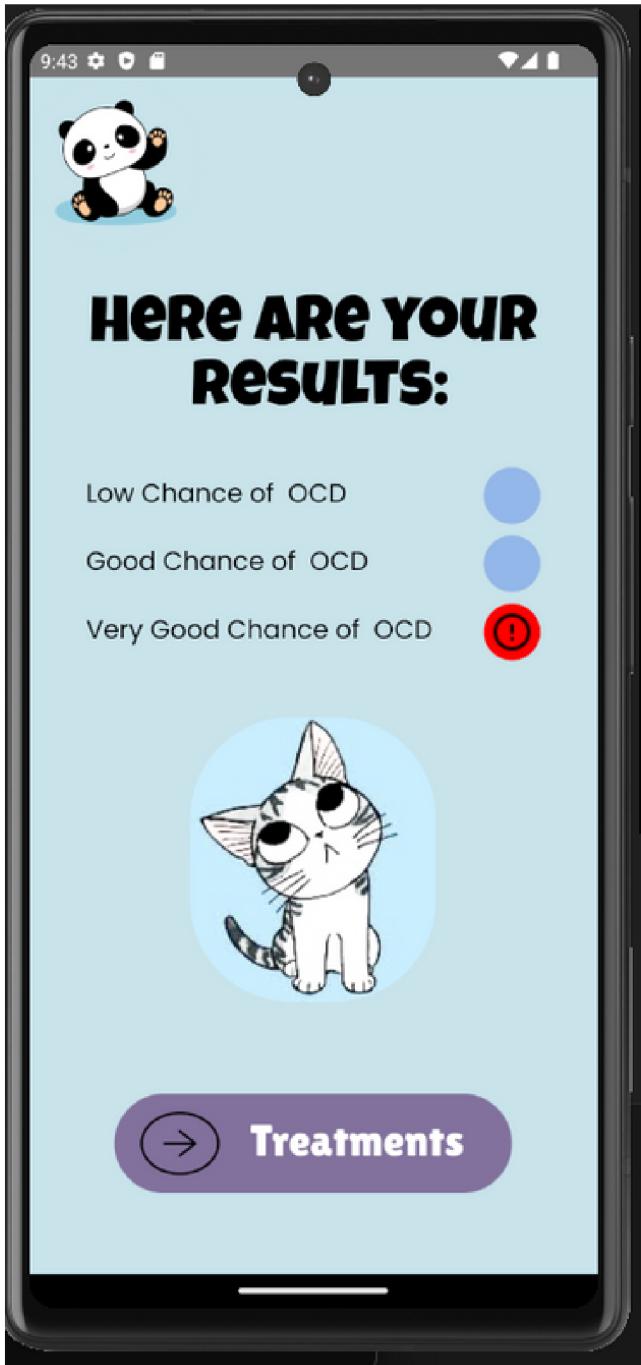
ACHIEVEMENTS



Achievements



Achievements



DATA COLLECTION

Child_ID,Gender,Age,Diagnosis,Severity_Score,Family_History,Treatment

1,Male,9,OCD-Checking,16,Yes,Therapy
2,Female,11,OCD-Contamination,10,No,Medication
3,Male,8,OCD-Pure Obsessions,18,Yes,Therapy
4,Female,10,OCD-Classic,14,No,Medication
5,Male,7,OCD-Hoarding,22,Yes,Therapy
6,Female,12,OCD-Classic,12,No,Medication
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Evidence of Completion

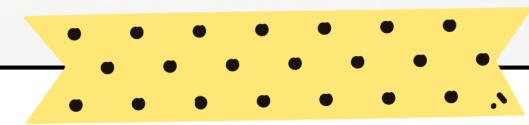
- Data set collection
- Designed the Frontend web application



H.D.D.P.Jayasinghe

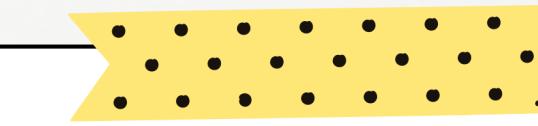
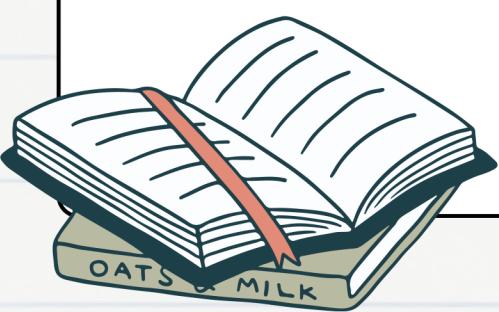
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Information Technology



MAIN OBJECTIVE

IDENTIFYING IF A CHILD UNDER 10 HAS ANXIETY
AND ANALYZING AND IDENTIFYING CHILDREN'S
PROGRESS



SUB OBJECTIVES

1. CREATING A GAME TO COLLECT DATA FROM KIDS ; A OBJECT SELECTING GAME TO GET A PERSENTAGE OF THE DISORDER THAT A KID HAS.
2. DEVELOP THE DASHBOARD TO VIEW AND TRAKING THE PROGRESS OF CHILDRENS

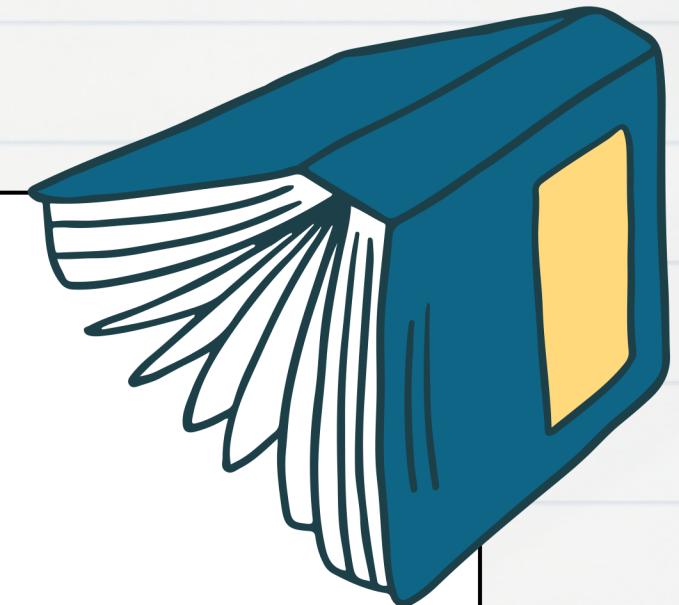
PROGRESS

Current Progress

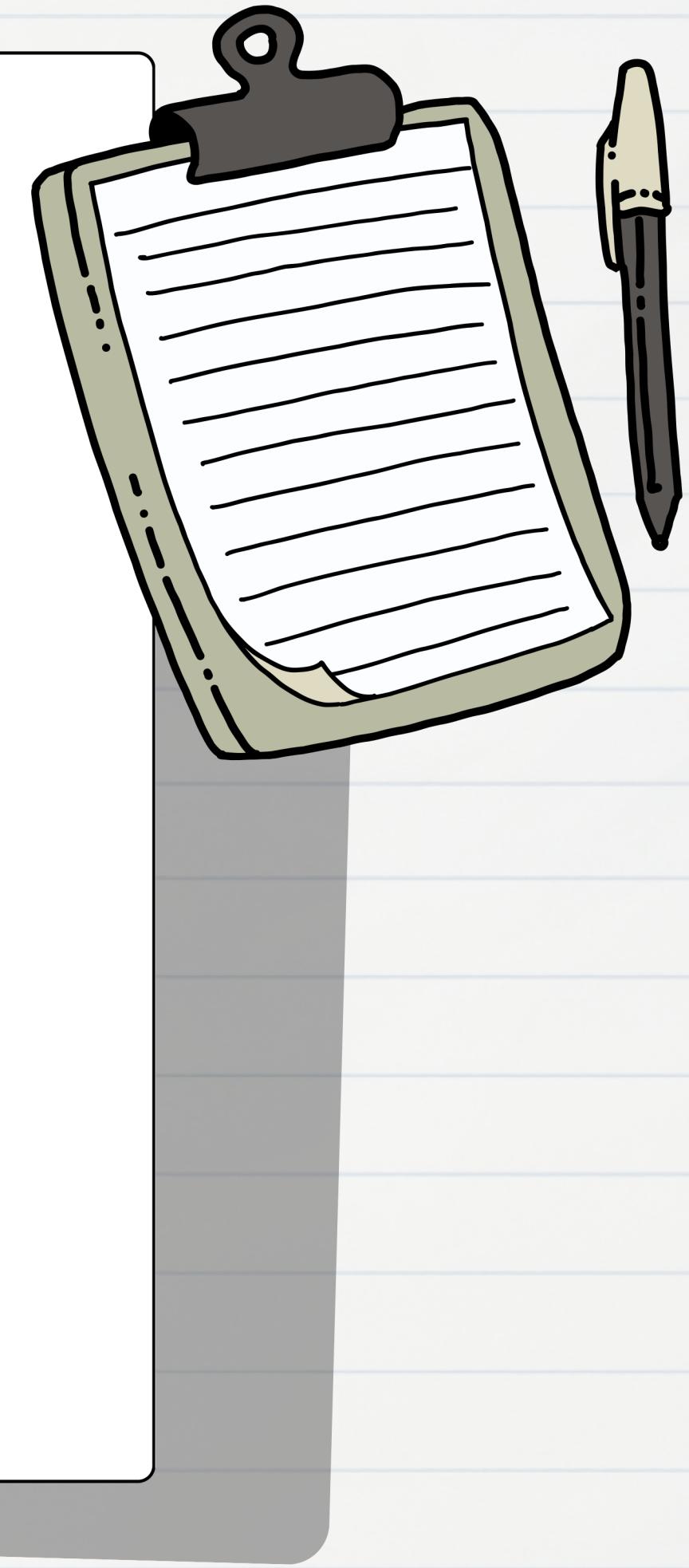
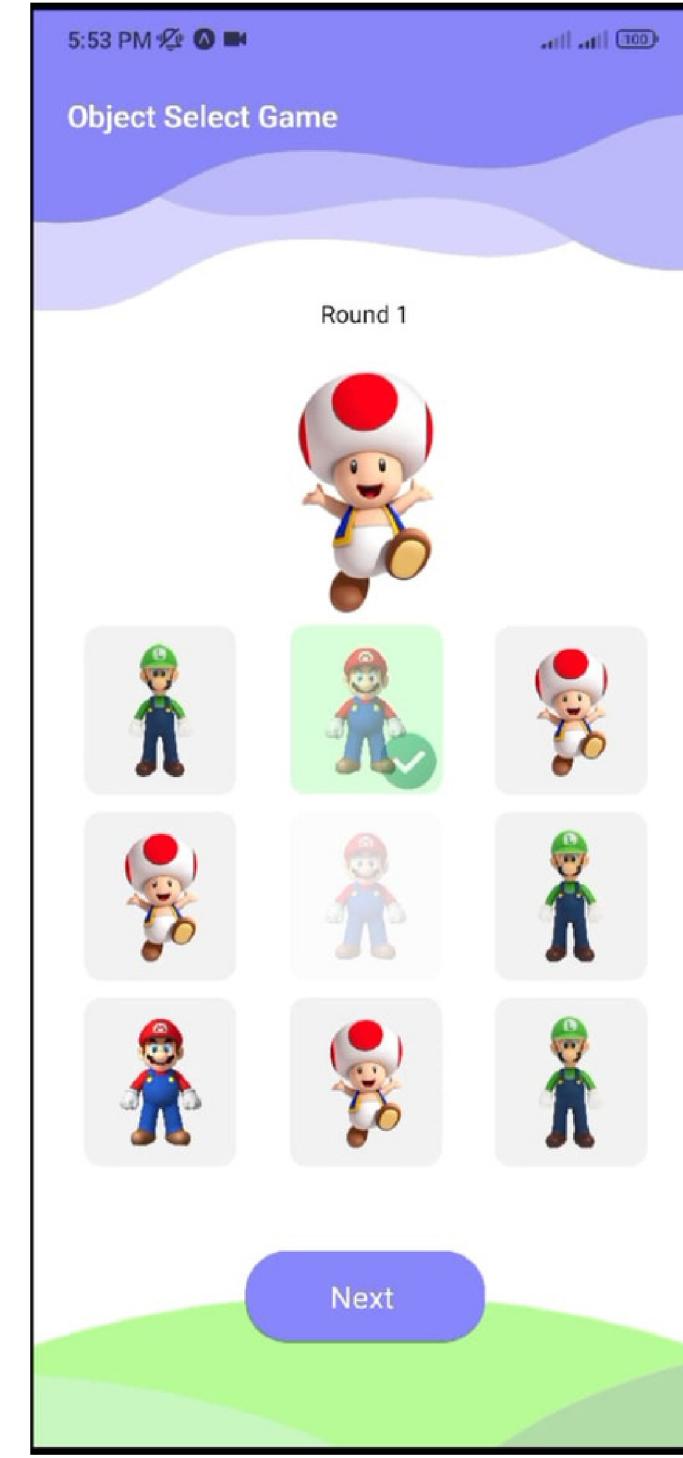
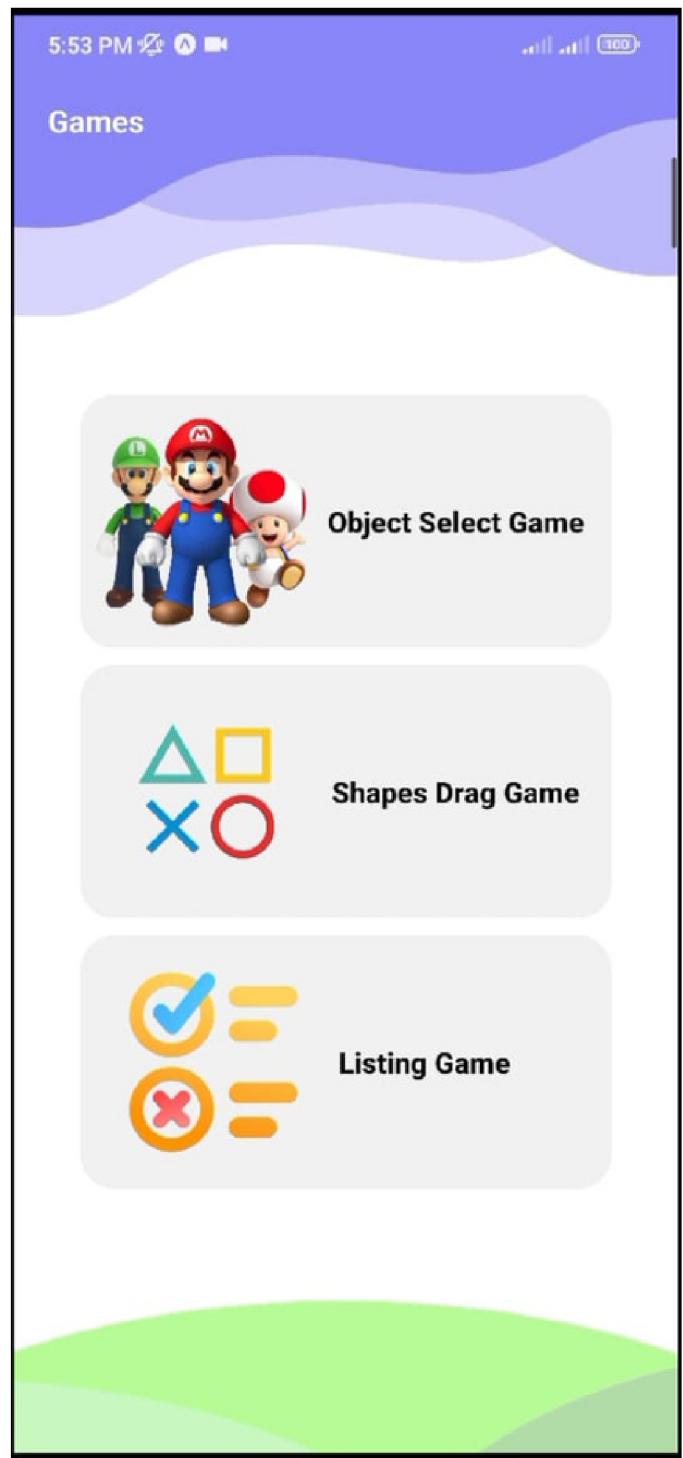
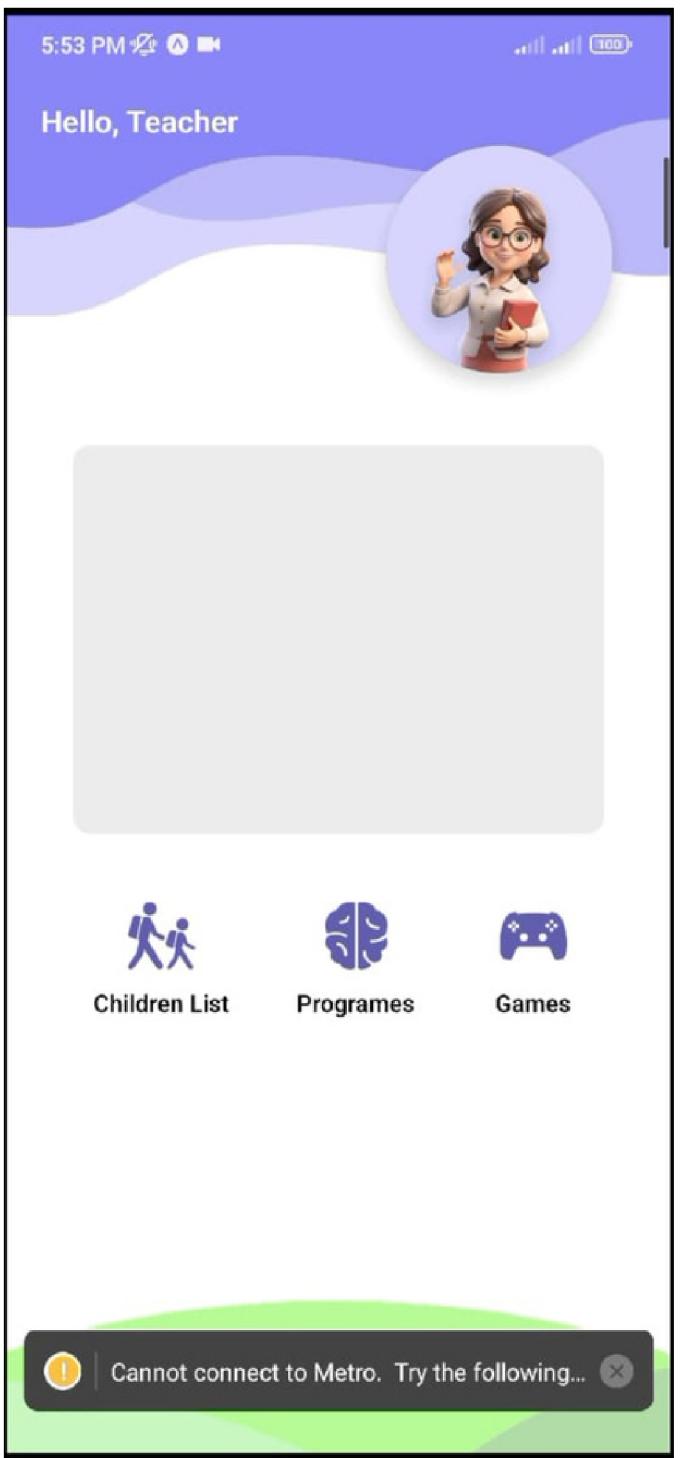
1. Collected datasets that relevant to anxiety.
2. Preprocessed the data.
3. Created a model and trained the model to get the pre predictions.

Future Implementations

1. Improve the games in use
2. Represent the progress visualization & dashboard
3. Train the most accurate model to get the prediction



Achievements



Evidence of Completion

1. DATASET COLLECTION
2. DATA PREPROCESSING
3. MODEL TRAINING
4. GAME DEVELOPMENT



Abeywickrama S.A.

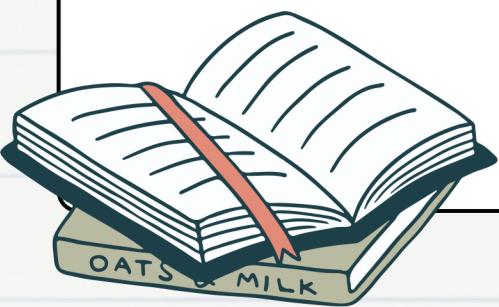
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Information Technology



MAIN OBJECTIVE

IDENTIFYING WHETHER A KID UNDER AGE 10 HAS ADHD OR NOT AND RELEASING TREATMENTS.



SUB OBJECTIVES

- 1.CREATING A QUESTIONNAIRE TO COLLECT DATA FROM KIDS AND AN ACTIVITY ; A STORY LISTENING GAME TO GET A PERSENTAGE OF THE DISORDER THAT A KID HAS.
- 2.RELEASE TREATMENTS AND INSTRUCTIONS FOR THE HEALING PROCESS.

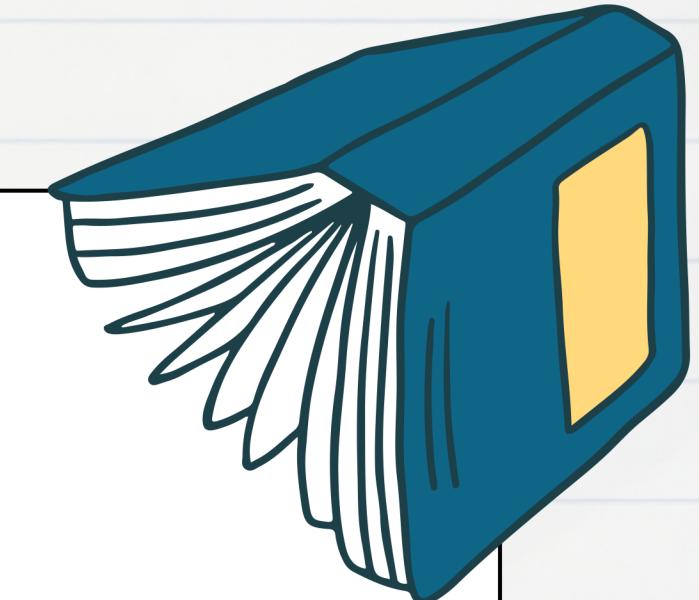
PROGRESS

Current Progress

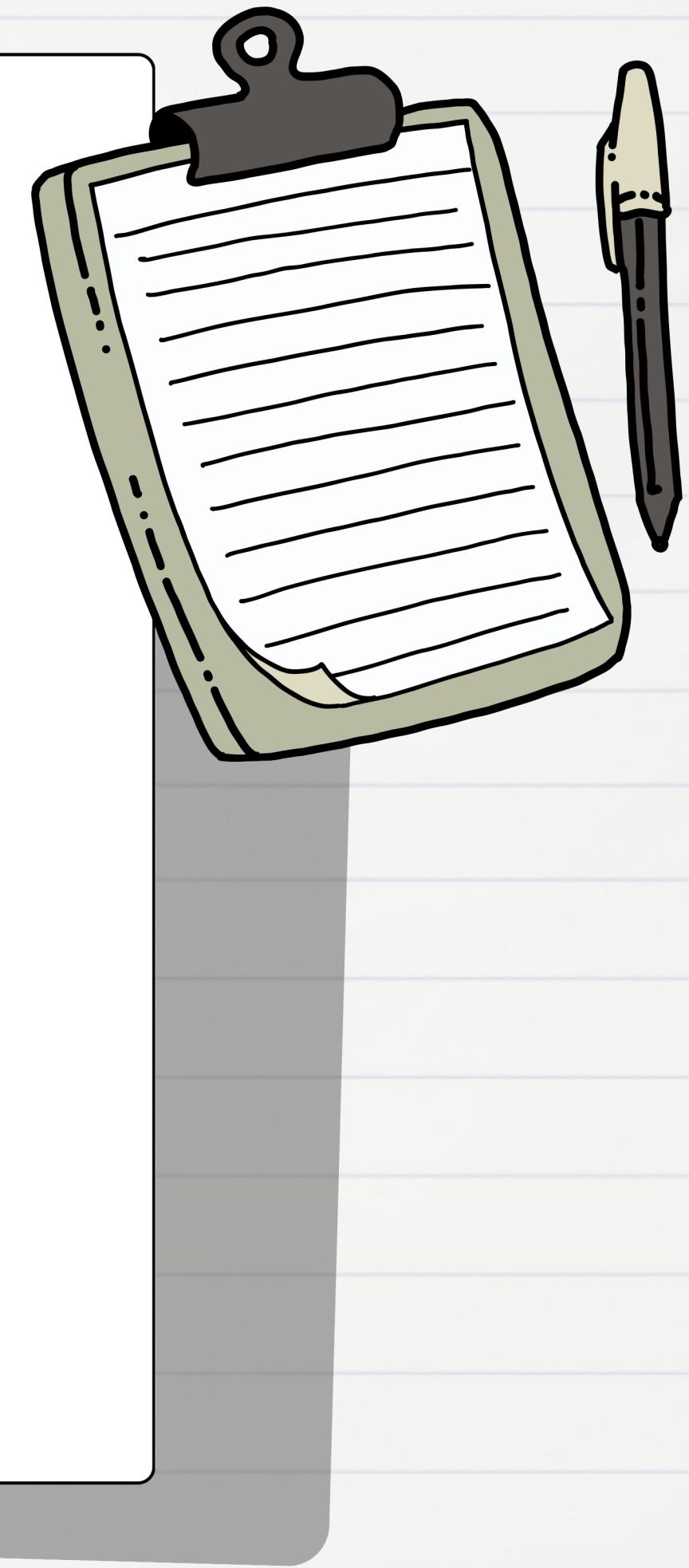
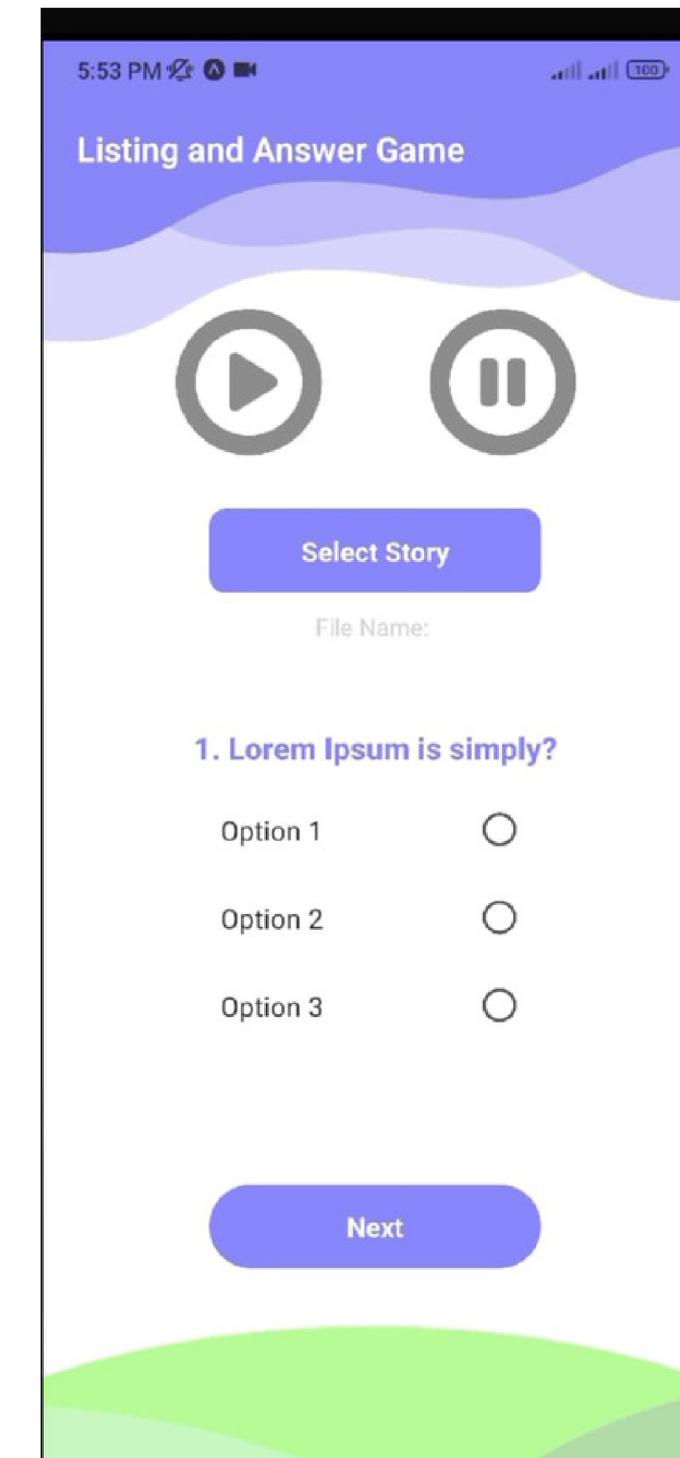
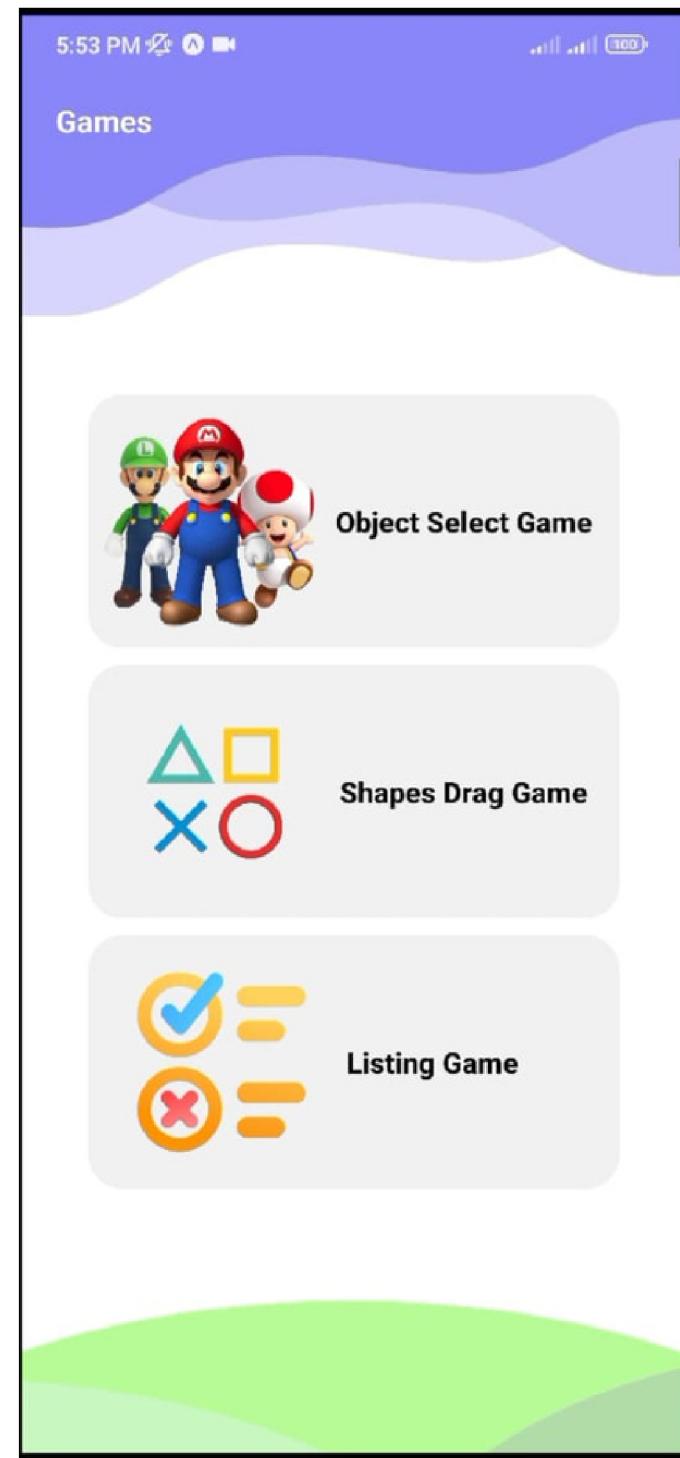
1. Collected datasets that relevant to ADHD.
2. Preprocessed data.
3. Created a model and trained the model to get the predictions.

Future Implementations

1. Expand datasets.
2. Develop and improve the mobile application.
3. Publish the application.



Achievements

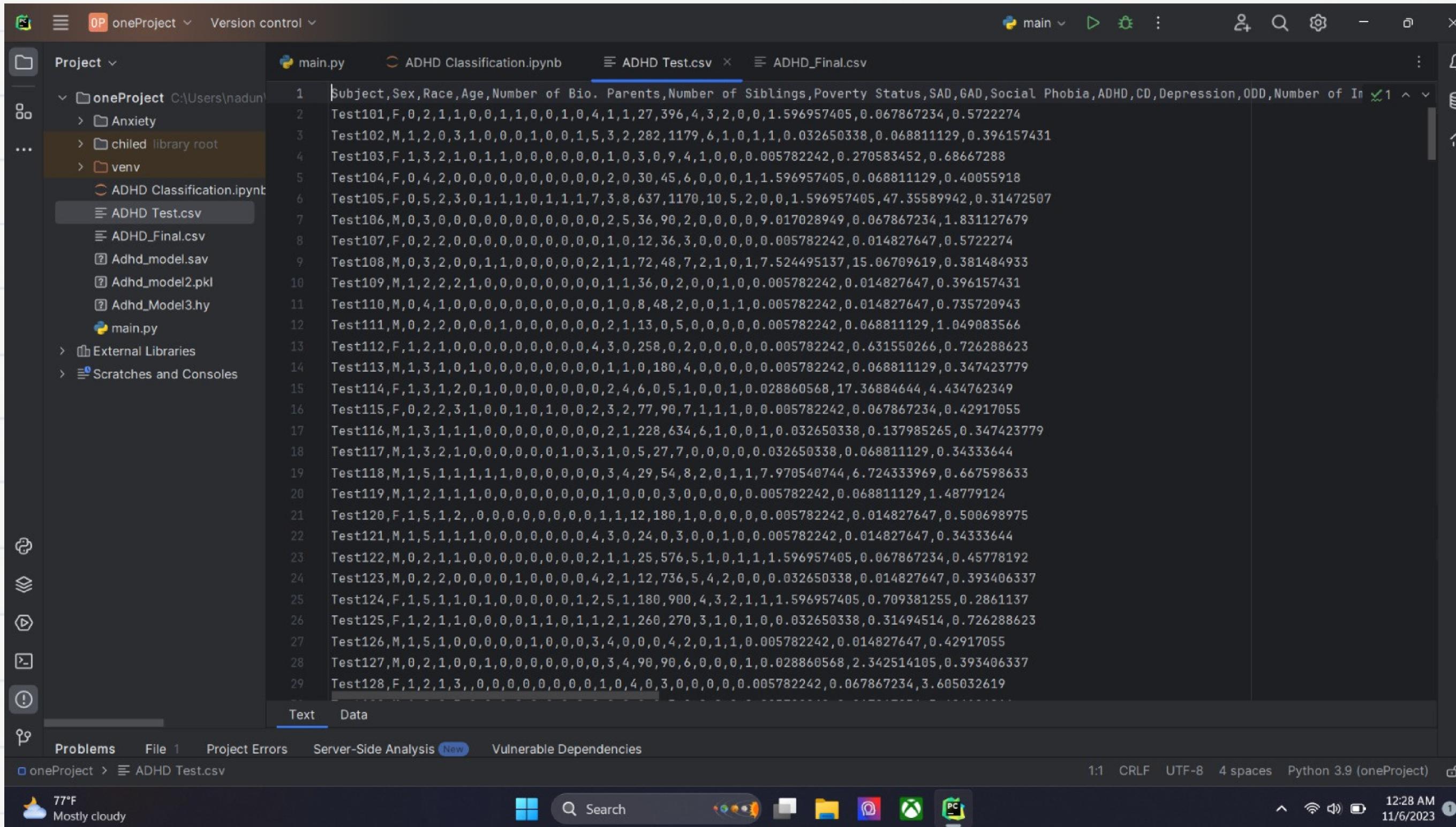


Evidence of Completion

- 1. DATASET COLLECTION**
- 2. DATA PREPROCESSING**
- 3. MODEL CREATION**
- 4. MODEL TRAINING**
- 5. ANDROID APPLICATION DEVELOPMENT**



DATA COLLECTION

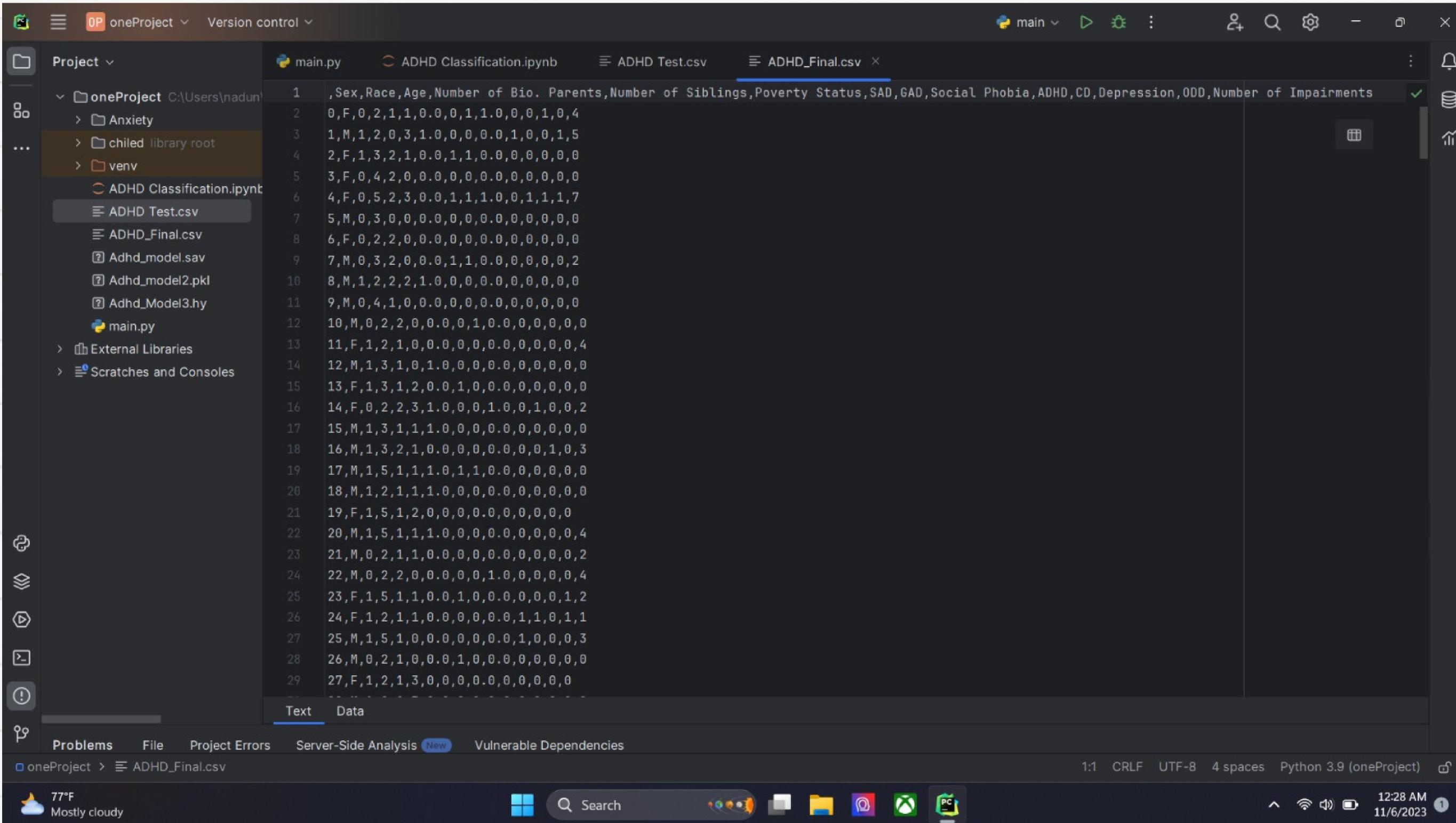


The screenshot shows a dark-themed code editor interface. At the top, there are tabs for 'main.py', 'ADHD Classification.ipynb', 'ADHD Test.csv' (which is currently selected), and 'ADHD_Final.csv'. The left sidebar displays a project structure under 'oneProject' containing files like 'Anxiety', 'chiled library root', 'venv', 'ADHD Classification.ipynb', 'ADHD Test.csv', 'ADHD_Final.csv', 'Adhd_model.sav', 'Adhd_model2.pkl', 'Adhd_Model3.h5', and 'main.py'. The main area shows the content of the 'ADHD Test.csv' file, which consists of 29 rows of comma-separated values. The first few rows are:

Row	Subject	Sex	Race	Age	Number of Bio Parents	Number of Siblings	Poverty Status	SAD	GAD	Social Phobia	ADHD	CD	Depression	ODD	Number of In
1	Test101	F	0,2,1,1,0,0,1,1,0,0,1,0,4,1,1,27,396,4,3,2,0,0,1,596957405,0,067867234,0,5722274												
2	Test102	M,1,2,0,3,1,0,0,0,1,0,0,1,5,3,2,282,1179,6,1,0,1,1,0,032650338,0,068811129,0,396157431													
3	Test103	F,1,3,2,1,0,1,1,0,0,0,0,0,1,0,3,0,9,4,1,0,0,0,005782242,0,270583452,0,68667288													
4	Test104	F,0,4,2,0,0,0,0,0,0,0,0,0,0,0,2,0,30,45,6,0,0,0,1,1,596957405,0,068811129,0,40055918													
5	Test105	F,0,5,2,3,0,1,1,0,1,1,7,3,8,637,1170,10,5,2,0,0,1,596957405,47,35589942,0,31472507													
6	Test106	M,0,3,0,0,0,0,0,0,0,0,0,0,0,0,2,5,36,90,2,0,0,0,0,9,017028949,0,067867234,1,831127679													
7	Test107	F,0,2,2,0,0,0,0,0,0,0,0,0,0,0,1,0,12,36,3,0,0,0,0,0,005782242,0,014827647,0,5722274													
8	Test108	M,0,3,2,0,0,0,1,1,0,0,0,0,0,0,2,1,1,72,48,7,2,1,0,1,7,524495137,15,06709619,0,381484933													
9	Test109	M,1,2,2,2,1,0,0,0,0,0,0,0,0,0,1,1,36,0,2,0,0,1,0,0,005782242,0,014827647,0,396157431													
10	Test110	M,0,4,1,0,0,0,0,0,0,0,0,0,0,0,1,0,8,48,2,0,0,1,1,0,0,005782242,0,014827647,0,735720943													
11	Test111	M,0,2,2,0,0,0,1,0,0,0,0,0,0,0,2,1,13,0,5,0,0,0,0,0,005782242,0,068811129,1,049083566													
12	Test112	F,1,2,1,0,0,0,0,0,0,0,0,0,0,0,4,3,0,258,0,2,0,0,0,0,005782242,0,631550266,0,726288623													
13	Test113	M,1,3,1,0,1,0,0,0,0,0,0,0,0,0,1,1,0,180,4,0,0,0,0,005782242,0,068811129,0,347423779													
14	Test114	F,1,3,1,2,0,1,0,0,0,0,0,0,0,0,2,4,6,0,5,1,0,0,1,0,028860568,17,36884644,4,434762349													
15	Test115	F,0,2,2,3,1,0,0,1,0,0,2,3,2,77,90,7,1,1,0,0,0,005782242,0,067867234,0,42917055													
16	Test116	M,1,3,1,1,1,0,0,0,0,0,0,0,0,0,2,1,228,634,6,1,0,0,1,0,032650338,0,137985265,0,347423779													
17	Test117	M,1,3,2,1,0,0,0,0,0,0,0,0,0,1,0,3,1,0,5,27,7,0,0,0,0,0,032650338,0,068811129,0,34333644													
18	Test118	M,1,5,1,1,1,1,0,0,0,0,0,0,0,0,3,4,29,54,8,2,0,1,1,7,970540744,6,724333969,0,667598633													
19	Test119	M,1,2,1,1,1,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,005782242,0,068811129,1,48779124													
20	Test120	F,1,5,1,2,,0,0,0,0,0,0,0,0,0,1,1,12,180,1,0,0,0,0,0,005782242,0,014827647,0,500698975													
21	Test121	M,1,5,1,1,1,0,0,0,0,0,0,0,0,0,4,3,0,24,0,3,0,0,1,0,0,005782242,0,014827647,0,34333644													
22	Test122	M,0,2,1,1,0,0,0,0,0,0,0,0,0,0,2,1,1,25,576,5,1,0,1,1,1,596957405,0,067867234,0,45778192													
23	Test123	M,0,2,2,0,0,0,0,1,0,0,0,0,4,2,1,12,736,5,4,2,0,0,0,032650338,0,014827647,0,393406337													
24	Test124	F,1,5,1,1,0,0,0,0,0,0,0,0,0,1,2,5,1,180,900,4,3,2,1,1,1,596957405,0,709381255,0,2861137													
25	Test125	F,1,2,1,1,0,0,0,0,1,0,1,1,2,1,260,270,3,1,0,1,0,0,032650338,0,31494514,0,726288623													
26	Test126	M,1,5,1,0,0,0,0,0,1,0,0,0,0,3,4,0,0,0,4,2,0,1,1,0,0,005782242,0,014827647,0,42917055													
27	Test127	M,0,2,1,0,0,0,1,0,0,0,0,0,0,0,3,4,90,90,6,0,0,0,1,0,0,028860568,2,342514105,0,393406337													
28	Test128	F,1,2,1,3,,0,0,0,0,0,0,0,1,0,4,0,3,0,0,0,0,0,005782242,0,067867234,3,605032619													
29															

TEST DATA

DATA COLLECTION



The screenshot shows a dark-themed code editor interface. At the top, there's a navigation bar with icons for file operations, a dropdown for 'oneProject', and a 'Version control' section. Below the navigation bar is a tab bar with four tabs: 'main.py', 'ADHD Classification.ipynb', 'ADHD Test.csv', and 'ADHD_Final.csv'. The 'ADHD_Final.csv' tab is currently selected. The main workspace displays the contents of the 'ADHD_Final.csv' file, which contains 29 rows of data. The data includes various demographic and mental health metrics. The left sidebar shows a 'Project' view with a tree structure of files and folders, including 'oneProject', 'Anxiety', 'chiled library root', 'venv', 'ADHD Classification.ipynb', 'ADHD Test.csv' (which is highlighted), 'ADHD_Final.csv', 'Adhd_model.sav', 'Adhd_model2.pkl', 'Adhd_Model3.h5', and 'main.py'. There are also sections for 'External Libraries' and 'Scratches and Consoles'. The bottom of the screen features a toolbar with icons for file operations, a search bar, and system status indicators like weather, battery, and network. The status bar at the very bottom shows the file path 'oneProject > ADHD_Final.csv', encoding 'CRLF', character set 'UTF-8', spaces '4 spaces', Python version 'Python 3.9 (oneProject)', and the date/time '11/6/2023 12:28 AM'.

Index	Sex	Race	Age	Number of Bio. Parents	Number of Siblings	Poverty Status	SAD	GAD	Social Phobia	ADHD	CD	Depression	ODD	Number of Impairments
1	,Sex,Race,Age,Number of Bio. Parents,Number of Siblings,Poverty Status,SAD,GAD,Social Phobia,ADHD,CD,Depression,ODD,Number of Impairments													
2	0,F,0,2,1,1,0.0,0,1,1.0,0,0,1,0,4													
3	1,M,1,2,0,3,1.0,0,0,0,1,0,0,1,5													
4	2,F,1,3,2,1,0.0,1,1,0.0,0,0,0,0,0													
5	3,F,0,4,2,0,0.0,0,0,0,0,0,0,0,0,0													
6	4,F,0,5,2,3,0.0,1,1,1.0,0,1,1,7													
7	5,M,0,3,0,0,0.0,0,0,0,0,0,0,0,0,0													
8	6,F,0,2,2,0,0.0,0,0,0,0,0,0,0,0,0													
9	7,M,0,3,2,0,0.0,1,1,0.0,0,0,0,0,0,2													
10	8,M,1,2,2,2,1,0,0,0,0,0,0,0,0,0,0													
11	9,M,0,4,1,0,0.0,0,0,0,0,0,0,0,0,0													
12	10,M,0,2,2,0,0.0,0,1,0.0,0,0,0,0,0,0													
13	11,F,1,2,1,0,0.0,0,0,0,0,0,0,0,0,4													
14	12,M,1,3,1,0,1.0,0,0,0,0,0,0,0,0,0													
15	13,F,1,3,1,2,0.0,1,0,0.0,0,0,0,0,0,0													
16	14,F,0,2,2,3,1,0,0,0,1,0,0,1,0,0,2													
17	15,M,1,3,1,1,1.0,0,0,0,0,0,0,0,0,0													
18	16,M,1,3,2,1,0.0,0,0,0.0,0,0,0,1,0,3													
19	17,M,1,5,1,1,1.0,1,1,0.0,0,0,0,0,0,0													
20	18,M,1,2,1,1,1.0,0,0,0.0,0,0,0,0,0,0													
21	19,F,1,5,1,2,0,0,0,0,0,0,0,0,0,0,0													
22	20,M,1,5,1,1,1.0,0,0,0.0,0,0,0,0,0,4													
23	21,M,0,2,1,1,0.0,0,0.0,0,0,0,0,0,0,2													
24	22,M,0,2,2,0,0.0,0,0,1,0,0,0,0,0,0,4													
25	23,F,1,5,1,1,0.0,1,0,0.0,0,0,0,1,2													
26	24,F,1,2,1,1,0.0,0,0,0.0,1,1,0,1,1													
27	25,M,1,5,1,0,0.0,0,0.0,0.0,1,0,0,0,3													
28	26,M,0,2,1,0,0.0,1,0,0.0,0,0,0,0,0,0													
29	27,F,1,2,1,3,0,0,0,0.0,0,0,0,0,0,0,0													

TRAIN DATA

DATA PREPROCESSING

The screenshot shows a Jupyter Notebook interface within the Visual Studio Code (VS Code) environment. The project is named "oneProject" and contains several files: main.py, ADHD Classification.ipynb (which is currently active), ADHD Test.csv, and ADHD_Final.csv. The notebook has three sections:

- Checking Duplicates**:
In 10 1: `data.duplicated().sum()`
Executed at 2023.11.04 21:26:14 in 23ms
Out 10: 0
- Dropping Duplicates**:
In 11 1: `data = data.drop_duplicates()`
Executed at 2023.11.04 21:26:15 in 7ms
- Transformation**:
In 12 1: `# Value_counts of output`
2: `data['ADHD'].value_counts()`
Executed at 2023.11.04 21:26:16 in 37ms
Out 12: ADHD

The bottom status bar shows the weather as 77°F Mostly cloudy, system icons, and the date/time as 12:52 AM 11/6/2023.

OP oneProject Version control

Project main ADHD Classification.ipynb ADHD Test.csv ADHD_Final.csv

Anxiety chiled library root venv ADHD Classification.ipynb

ADHD Test.csv ADHD_Final.csv Adhd_model.sav Adhd_model2.pkl Adhd_Model3.h5 main.py

External Libraries Scratches and Consoles

Deleting Unnecessary Column

'Number of Type A Stressors', 'Number of Type B Stressors',
'Frequency Temper Tantrums', 'Frequency Irritable Mood',
'Number of Sleep Disturbances', 'Number of Physical Symptoms',
'Number of Sensory Sensitivities', 'Family History - Substance Abuse',
'Family History - Psychiatric Diagnosis', 'GAD Probabilty - Gamma',
'SAD Probability - Gamma', 'Sample Weight'

```
In 15: 1 #Dropping the column in ADHD data in Above mentioned
2 data=data.drop(['Number of Type A Stressors', 'Number of Type B Stressors',
3 'Frequency Temper Tantrums', 'Frequency Irritable Mood',
4 'Number of Sleep Disturbances', 'Number of Physical Symptoms',
5 'Number of Sensory Sensitivities', 'Family History - Substance Abuse',
6 'Family History - Psychiatric Diagnosis', 'GAD Probabilty - Gamma',
7 'SAD Probability - Gamma', 'Sample Weight'],axis=1)
Executed at 2023.11.04 21:26:18 in 22ms
```

```
In 16: 1 data.head()
Executed at 2023.11.04 21:26:18 in 24ms
```

Out 16: 5 rows × 15 columns pd.DataFrame

	Subject	Sex	Race	Age	Number of Bio. Parents	Number of Siblings	Poverty Status	SAD	GAD	Social
0	Test101	F	0	2		1		0.0	0	1
1	Test102	M	1	2		0		1.0	0	0

Problems File 41 Project Errors Server-Side Analysis New Vulnerable Dependencies

oneProject > ADHD Classification.ipynb 2:1 CRLF UTF-8 4 spaces Python 3.9 (oneProject)

77°F Mostly cloudy Search 12:53 AM 11/6/2023

SELECTED 4 MODELS

SVC - SUPPORT VECTOR CLASSIFY -> ACCURACY - 93%

DECISION TREE -> ACCURACY - 92%

RANDOM FOREST REGRESSOR -> ACCURACY - 92%

XGBOOST -> ACCURACY - 95%

Gayashan K.L.

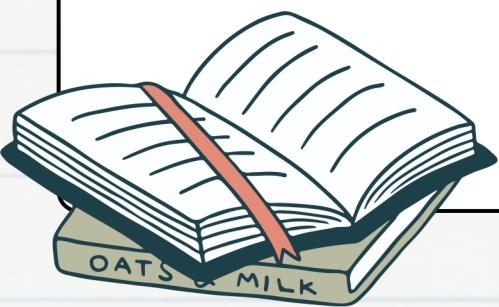
IT20666774

Information Technology



MAIN OBJECTIVE

PROGRAM CREATED TO ENHANCE THE MENTAL HEALTH OF KIDS UNDER 10 IS TO CREATE A SUPPORTIVE AND EMPOWERING ATMOSPHERE THAT PROMOTES THEIR EMOTIONAL GROWTH AND WELL-BEING. THE PROGRAM ATTEMPTS TO SUPPORT KIDS IN IDENTIFYING, COMPREHENDING, AND CONSTRUCTIVELY EXPRESSING THEIR EMOTIONS. THE APP PROMOTES EMOTIONAL LITERACY AND SELF-AWARENESS BY GIVING USERS A SAFE PLACE TO EXPLORE AND EXPRESS THEIR FEELINGS.



SUB OBJECTIVE

SUB FINDING THE MOST SUITABLE MOOD TO STUDY AND GET FULL ATTENTION TO THE LESSON USING FACE RECOGNITION AND EMOTION DETECTION. WE ARE USING THE EMOTION DETECTION TO GET THE STUDENT'S EMOTIONS AND, DEPENDING ON THE EMOTIONS, WE DECLARE VARIOUS FUNCTIONS TO GET THEIR FULL ATTENTION. AND IN THE MIDDLE OF THE LESSON STUDENTS DO OTHER WORK, THE APP NOTIFIES THEM AND GET FULL ATTENTION TO THE LESSONS.

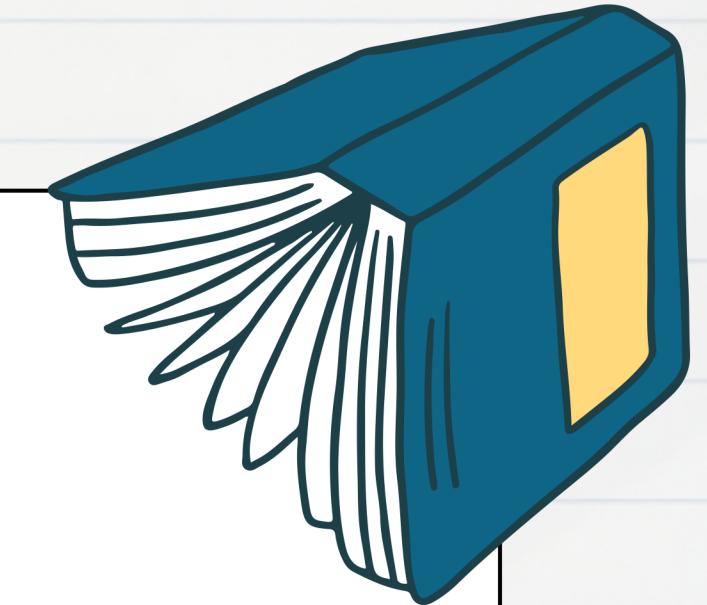
PROGRESS

Current Progress

- Collected datasets that relevant to OCD
- Created the Frontend web application

Future Implementations

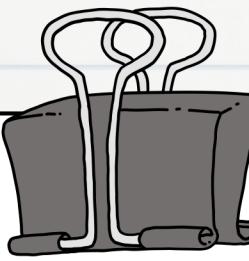
1. Expand datasets.
2. Develop and improve the mobile application.
3. Publish the application.



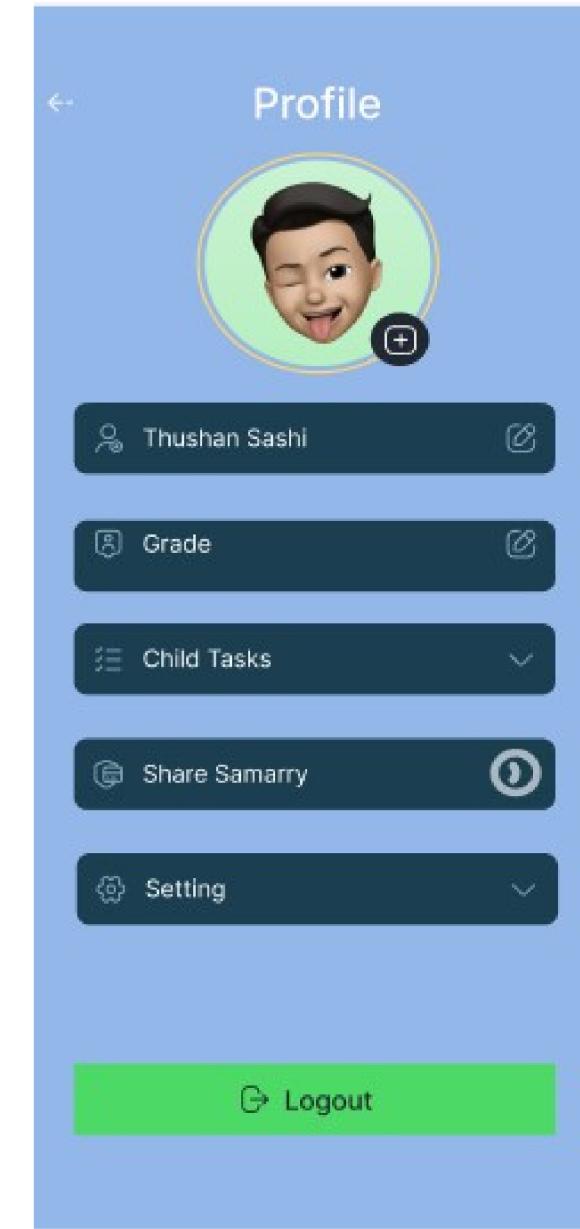
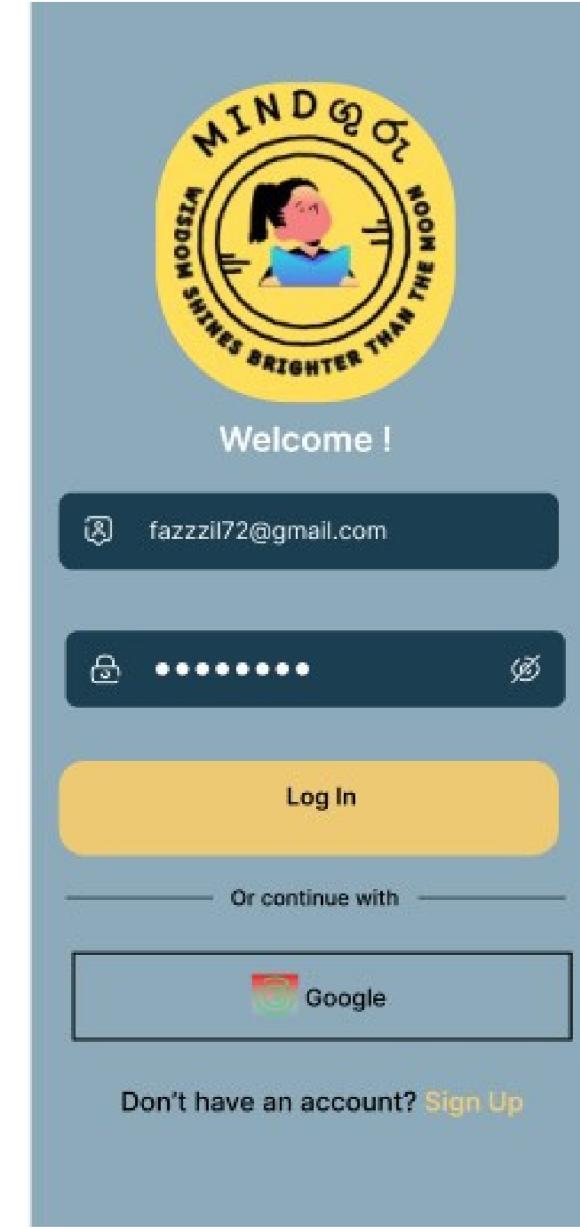
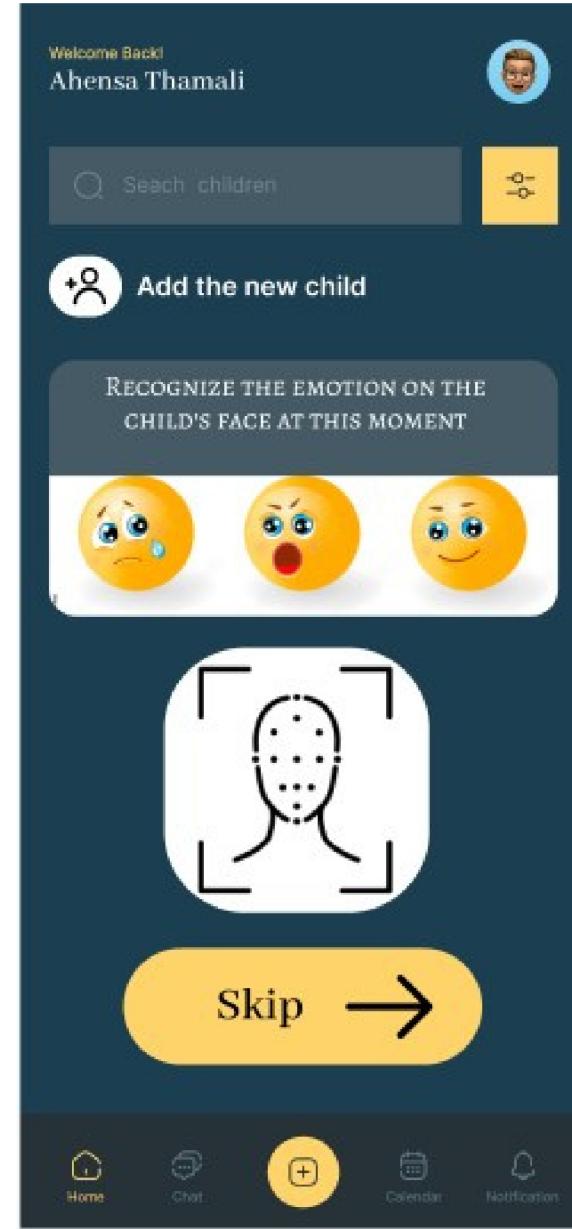
ACHIEVEMENTS



powered by
 Renderforest



Achievements



Evidence of Completion

- Data set collection
- Designed the Frontend web application



Thank's For Watching

