

ABSTRACT

Children's drawings are like secret diaries, revealing their innermost emotions and thoughts. "Anamel" uses artificial intelligence to unlock these secrets, offering a fast and accurate way to diagnose mental health issues. By training on 500 annotated drawings, we achieved a notable 94% accuracy using the YOLOv8-cla model over 10 epochs. "Anamel" does not only enhance diagnostic accuracy but also fully supports the Arabic language, making mental health tools more accessible to Arabic-speaking children.

INTRODUCTION

"Anamel" is an AI app that analyzes children's drawings to assess mental health, simplifying the process for specialists and parents. Using computer vision and deep learning, it provides quick, accurate insights, supporting early intervention and personalized treatment plans.

OBJECTIVES

Simplify diagnosis with AI analysis of children's drawings, saving time and effort.

Use deep learning for accurate detection of psychological issues, promoting early diagnostics for a healthier society.

METHODOLOGY

WATERFALL METHODOLOGY

Requirement Analysis

System Design

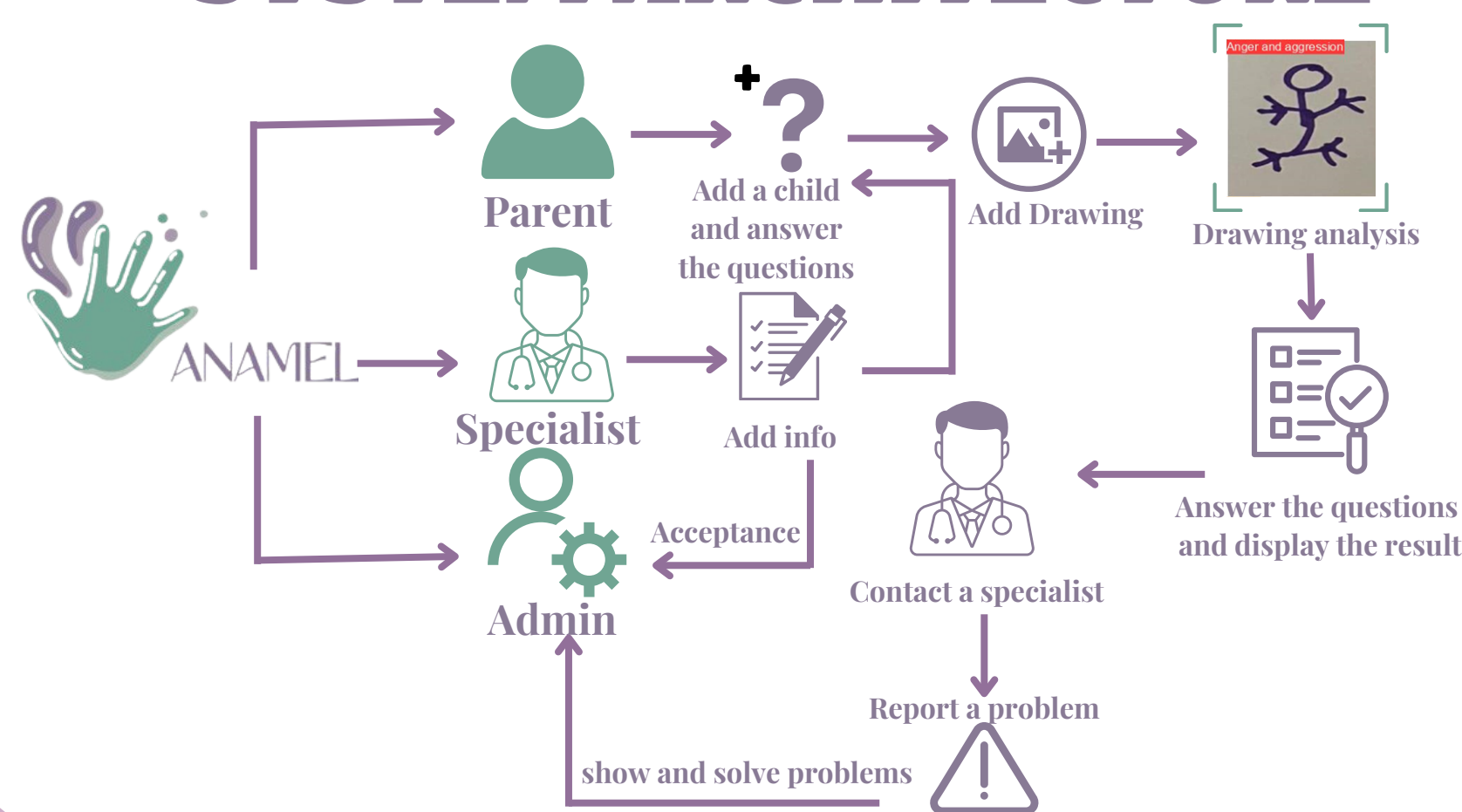
Implementation

Testing

TOOLS



SYSTEM ARCHITECTURE



RESULTS



CONCLUSION & FUTURE PLAN

The Anamel app uses AI to help parents and psychologists quickly assess children's mental and emotional health through their drawings. The Yolov8-cla model, achieving 94% accuracy at epoch 10 and 2.83 MB, categorizes drawings into five emotions: happy, sad, anxiety, anger, and aggression.

In future work, we plan to:

- Expand the dataset and add more psychological tests.
- Integrate a drawing board.
- Analyze physical movements while drawing.

INTERFACE



Over 30 interfaces for parents, specialists, and admins.
Contact & Demo

