

SABER: DIGITAL DIAGNOSIS ASSISTANT FOR PSYCHOLOGIST

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ABSTRACT

Mental illnesses have increased in recent years, especially after the Covid-19 pandemic. In Saudi Arabia, the number of psychiatric clinics is small compared to the population density. To solve the challenges face the psychologists, the system was built as a website. CNN algorithm was used with 96% of accuracy to automatically predict the appropriate diagnosis and suggest the most suitable psychological test for the patient to take.

OBJECTIVES



Expedite and facilitate the initial diagnosis with the lowest error rate.



Suggest and calculate the psychological test in seconds



Overcome the patients fear of going to psychiatric clinic

USER INTERFACES



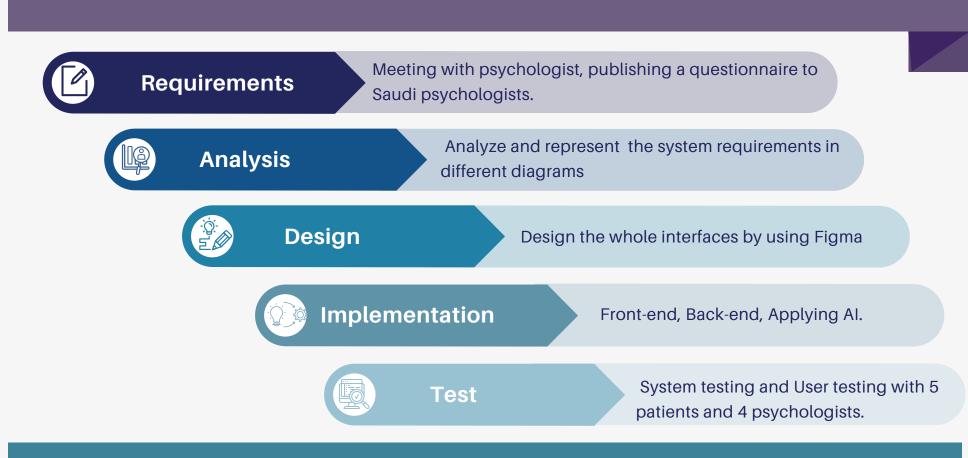
REFERENCE / CONTACT





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METHODOLOGY



TOOLS

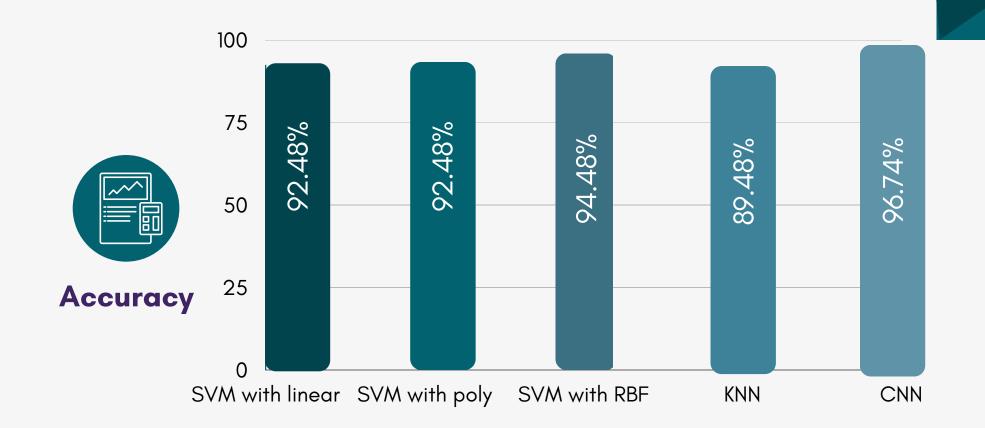


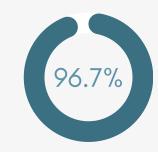
FUTURE WORK



- Add more mental disorders
- Suggest a treatment plan by using a deep learning.

CONCLUSION AND RESULTS





 Models Evaluation showed CNN has the most accurate model with accuracy of 96.7%



• System testing revealed that There wasn't any error in the mechanism of functions.



• Usability testing showed that the performance was high and fast, the interfaces was clear and friendly.



• Saber showed high level of effectiveness to the participated psychologists, in terms of accuracy of the predicted diagnosis.