Tabayyun
تَبَيَّن

Discover your personality analysis and stress level with our Rorschach test-based app.

UMM AL-QURA UNIVERSITY

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Abstract

Psychological and mental health is very important to maintaining human productivity, however, most people do not like the idea of going to a psychiatrist or admitting that they have a problem. This project applied the Rorschach test that mainly focused on personality analysis. Our application also pushes positive notifications for users, keeps history records for their previous results, and allows users to share their test results. We tested more than one machine learning algorithm and we took the best of them, which is multi tree and we took the best of them, which is multi-tree.
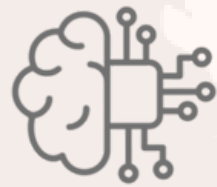
Methodology

Collecting dataset and converting numerical features into a single vector.

We analyzed the dataset on each category separately.

Multi Decision Tree Classification, Naïve Bayes and the Logistic Regression algorithm

For our system, we chose the Multi decision tree classification since it gave the highest accuracy over other algorithms.
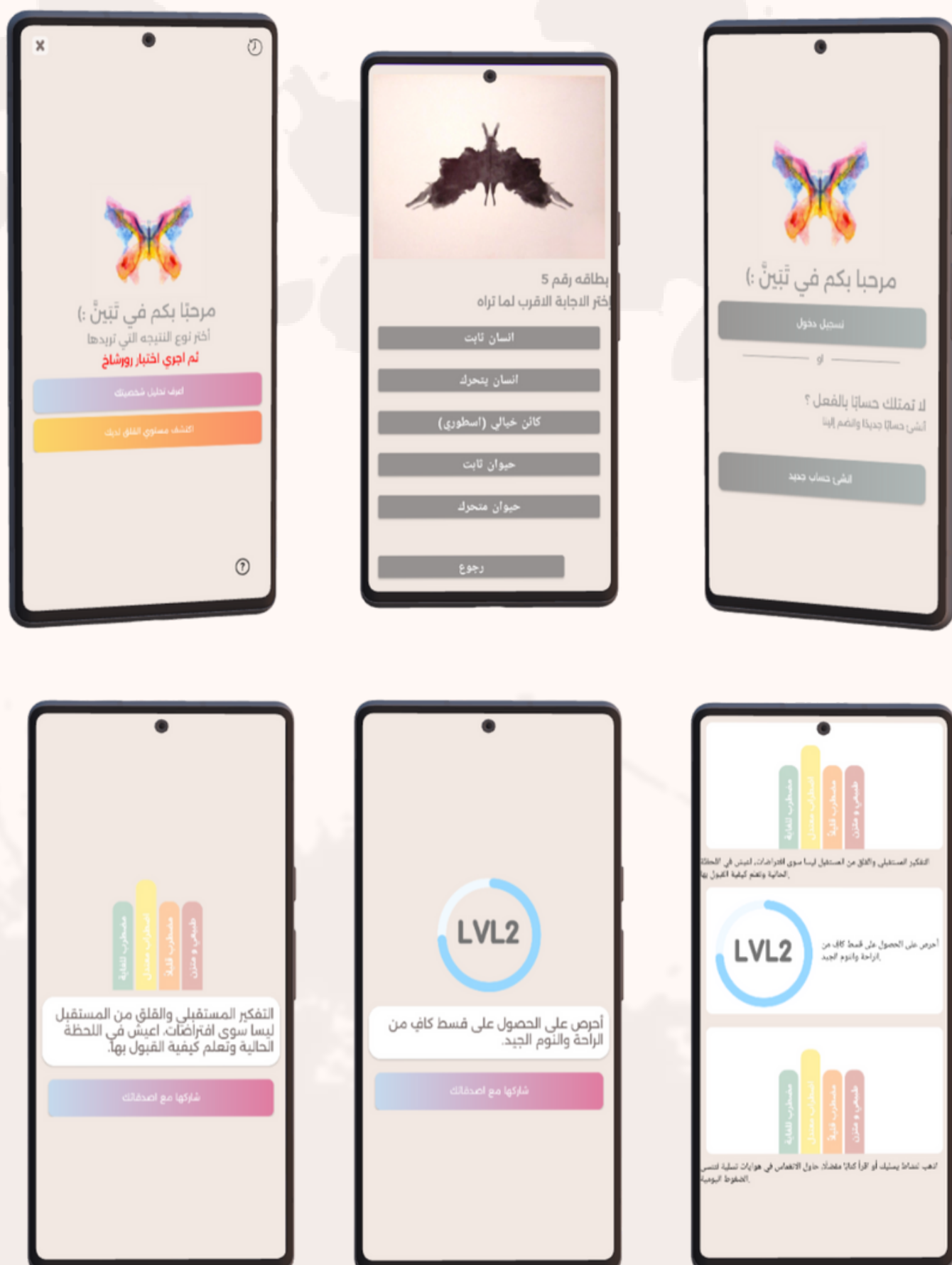
Results

Objective

- Providing a user-friendly app for personality analysis and determining the stress level by using the Rorschach test that supports the Arabic language.

- Motivating people to take a step towards taking care of their psychological and mental health.

Tools

Future work

- Adding more test categories related to mental health and psychology will make Tabayyun application more comprehensive.
- Adding more languages to Tabayyun application
- Expanding Tabayyun to run on multiple platforms, such as iOS, to reach a broader audience.
- Improving the accuracy of our machine learning model by refining feature selection, data preprocessing, and possibly exploring more advanced machine learning techniques.

Conclusion

Our project focuses on the importance of psychological and mental health for productivity. By using the Rorschach test for personality analysis, our application offers positive notifications, keeps track of previous results, and allows users to share their test outcomes. We aim to contribute to a healthier and happier society where everyone can be balanced both physically and mentally.

Demo