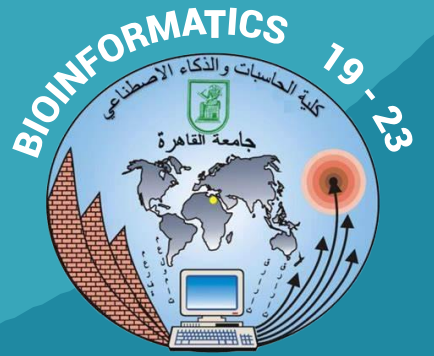




CAIRO UNIVERSITY

HealIt

MENTAL HEALTH CARE APP



COMPUTER SCIENCE

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01. PROBLEM DEFINITION

Address the challenges faced by patients with mental disorders. These challenges include limited access to reliable information about mental health conditions, difficulty in accurately detecting and assessing depression and suicidal tendencies, lack of convenient and accessible therapy options, and a need for additional support and motivation during the recovery process and make it easier to connect therapists.

03. METHODOLOGY



1. **A mental health library:** Linked with **Database** has comprehension info about variety of mental disorders.

2. **A depression Detector:** has 3 phases:

- a. **Sentiment Analysis (Vader – Roberta – Score)**
- b. **Depression Detection (NB 93% – LR 95%– SVM 95%)**
- c. **Suicidal Emotion Detection – NLP (more than 115k texts)**

3. **Treatment services:** including **Chatbot** therapy implemented by using **Neural Network** architecture, direct booking Online or Offline sessions and connections with nearby therapists using **Google Maps places API**.

4. **A support section:** with motivational quotes, activities, book recommendations, and meditation techniques.

02. OBJECTIVES

HealIt aims to support individuals with mental disorders. Its objectives are to educate users through a mental health library, accurately detect depression and suicidal tendencies, connect users with therapists for convenient therapy options, and provide additional support resources. By achieving these objectives, HealIt aims to empower individuals, improve their mental well-being.

04. DELIVERABLES

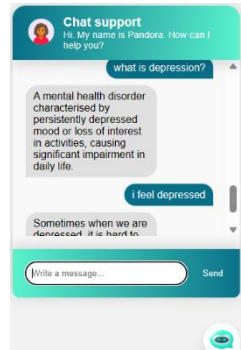
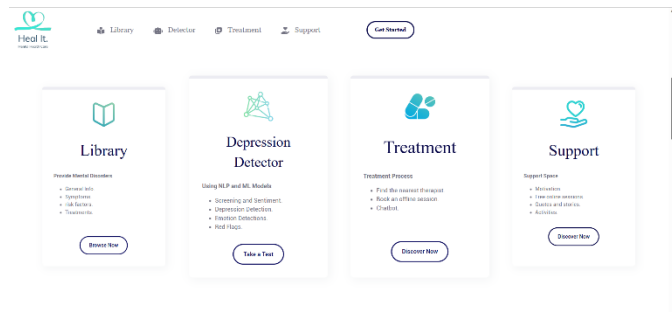
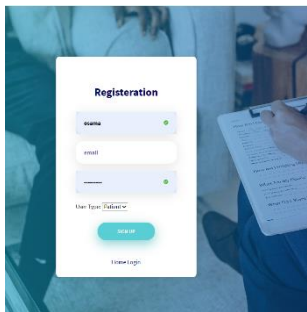
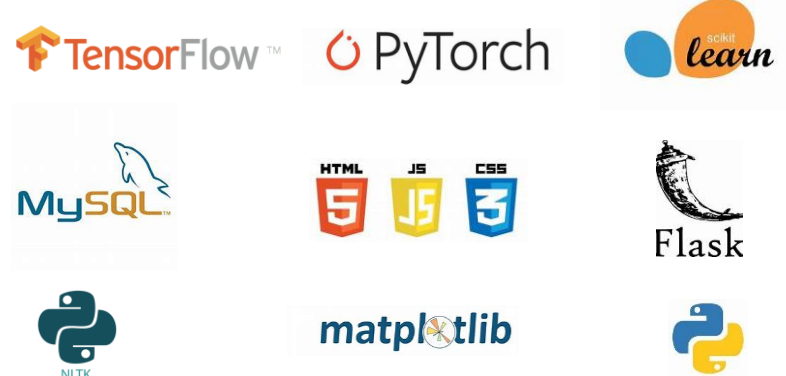
- 2. A fully functional website application.
- 3. A mental health library with info about mental disorders.
- 4. A depression detector that accurately assesses depression levels and identifies suicidal tendencies.
- 5. Therapy services, including chatbot therapy sessions and connections with nearby therapists.
- 6. A support section with motivational quotes, activities, book recommendations, podcasts, and free online sessions.



05. USED TECHNOLOGIES

To make our application alive we used many technologies and frameworks like:

- 1. Continuous improvement and updates based on user feedback.
- 2. Expand and update the mental health library with comprehensive content.
- 3. Integrate personalization features for a tailored user experience.
- 4. Collaborate with mental health professionals for credibility and accuracy.
- 5. Explore the integration of new therapeutic techniques and approaches.
- 6. Incorporate gamification and interactive features to enhance user engagement.
- 7. Develop a mobile application for increased accessibility.
- 8. Foster community and peer support through discussion forums and groups.
- 9. Conduct research and analyze data for insights and optimization.
- 10. Establish partnerships with mental health organizations for greater impact.



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