Febryan Riyadi

About Me

I'm a 5th-semester Computer Science student at BINUS University with a passion for creative design and technology. I have strong skills in web and poster design, and I'm eager to grow and contribute to impactful projects in the tech industry.

Contact

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Skills

- Web Development
- Web Design
- Graphic Design
- Poster Design
- App Development

Language

- English
- Indonesia

Location

Clementi Ave 1, Clementi, Singapore

Bandung, West Java, Indonesia

Education

(2019 - 2022)

SMA SANTO ALOYSIUS 2

Natural Science
High School Graduate

(2022 - present)

BINUS UNIVERSITY

Computer Science
Undergraduate

Experience

(2023 -2024)

CREATIVE AND DESIGN

HIMTI BINUS

- Designed visually enganging poster and digital assets for events and campaigns.
- Collaborated with the creative team to maintain brand consistency across all materials

(2023 - present)

PUBLIC RELATIONS

KMK BINUS

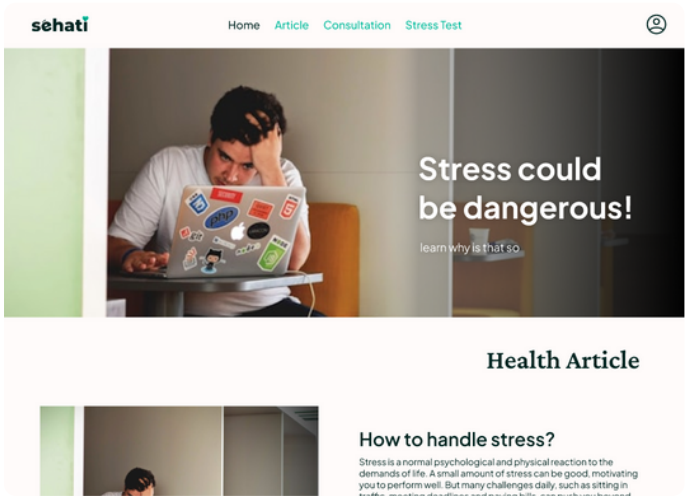
- Managed communication strategies to engange the student community and promote events.
- Coordinated social media content and external partnership to boost visibility and attendance.

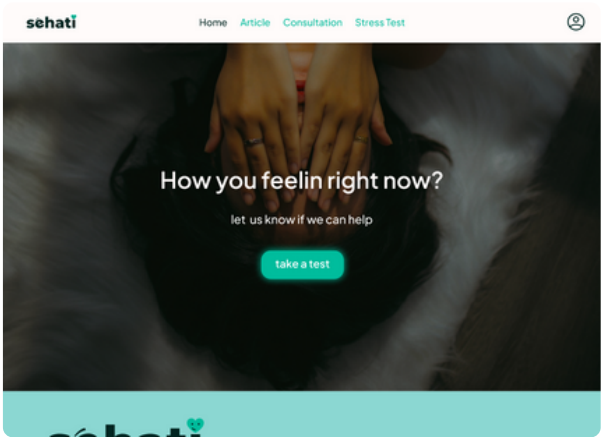
My Project

SEHATI

MENTAL HEALTH APPLICATION

SEHATI is a mental health-focused mobile and web application designed to assist users in managing their mental well-being through various features such as stress assessments, personalized profiles, and informative articles. The application was developed as part of a Software Engineering course, where the main objective was to address the growing concern over mental health issues, especially stress, anxiety, and depression.





The key features of SEHATI include an intuitive user interface for easy navigation, a comprehensive stress test that helps users evaluate their mental health status, and a library of mental health articles that provide valuable insights on topics such as mindfulness, stress management, and self-care. Additionally, users can create personalized profiles where they can track their mental health progress and access tailored recommendations.

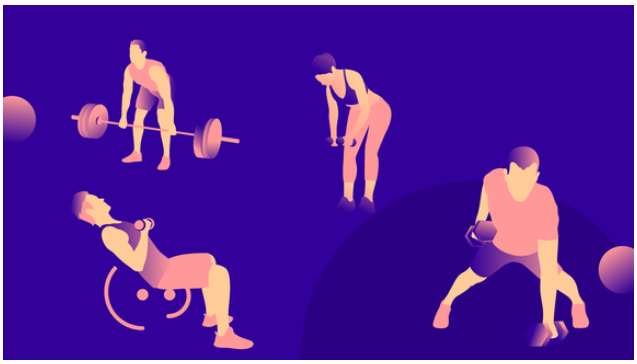
Throughout the development process, the project emphasized enhancing the user experience (UX) and ensuring data privacy and security. SEHATI uses Laravel and PHP for backend functionality, and PHPMyAdmin with SQL for database management, ensuring the secure handling of user data. The app is designed to be scalable, with future plans to incorporate additional features such as professional consultations and mental health forums.

By integrating modern technology and psychology, SEHATI aims to provide accessible mental health support to users, enabling them to take proactive steps in maintaining their mental well-being

My Project

GYMME

HEALTH STORE



GymMe is a mobile application designed to help users achieve their fitness goals by offering personalized workout plans, progress tracking, and community engagement. The app is tailored to suit the needs of beginners and fitness enthusiasts alike, providing an all-in-one solution for health and fitness management.

Key Features

- Personalized Workout Plans: Users can create or receive tailored workout routines based on their fitness level, goals, and preferences.
- Progress Tracking: Real-time monitoring of fitness milestones, including weight changes, exercise performance, and achievements.
- Community Engagement: A forum where users can interact, share tips, and motivate each other in their fitness journey.
- Integration with Wearable Devices: Synchronizes with devices like smartwatches and fitness bands to track metrics such as heart rate, calories burned, and steps taken.
- Diet Recommendations: Suggests meal plans and tracks caloric intake to complement workout routines.
- Gamification: Users earn badges and rewards for consistency and achieving fitness targets, boosting motivation.

Development Process

GymMe was developed using React Native for cross-platform compatibility, enabling a seamless experience on both iOS and Android devices. The backend was built with Node.js and integrated with MongoDB for efficient data storage and management. API connections were established to synchronize data with wearable devices and external health services.

Challenges and Solutions

One of the major challenges was ensuring accurate data synchronization between the app and wearable devices. This was resolved by implementing robust APIs and regular testing to maintain consistency and accuracy. Additionally, designing an intuitive user interface required iterative user feedback and testing to enhance usability.

GymMe showcases my ability to manage end-to-end app development while addressing user needs and ensuring technical excellence.

My Project

IRIS CLASSIFICATION

IRIS CLASSIFICATION USING NAIVE BAYES ALGORITHM

Developed a machine learning project implementing Naive Bayes algorithm from scratch in Python to classify Iris flower species based on their physical characteristics. The system processes 150 flower samples with four key features (sepal length/width, petal length/width) to predict three different Iris species, achieving ~95% classification accuracy through K-fold cross-validation.

Algorithm Implementation:

- Built Gaussian Naive Bayes classifier without relying on ML libraries
- Implemented statistical computations (mean, standard deviation, variance)
- Developed probability distribution calculations for feature likelihood estimation
- Created K-fold cross-validation (k=5) for model evaluation

Key Features:

- Comprehensive data preprocessing pipeline for numerical and categorical data
- Two implementation versions: evaluation model and prediction-optimized model
- Interactive data visualization using Matplotlib for model performance analysis
- Custom statistical analysis tools for model validation
- Flexible architecture allowing for easy dataset modifications

Results & Impact:

Successfully demonstrated practical machine learning concepts from data preprocessing to model deployment. The project showcases both technical proficiency in Python programming and understanding of fundamental machine learning principles, while providing a scalable solution for similar classification problems.

This project demonstrates proficiency in implementing machine learning algorithms from scratch, showcasing strong programming skills and deep understanding of statistical concepts. The high accuracy achieved validates the effectiveness of the implementation, while the modular design allows for future extensions and applications to similar classification problems.