



Michigan
Technological
University

PROJECT TITLE

VITAL RECORDS MANAGEMENT SYSTEM

SAT 4650 FINAL PROJECT

BY

RAJA MUPPIDI



LONG-TERM GOAL

The long-term objective of the vital signs management project is to deliver a comprehensive system that allows medical practitioners to manage and monitor the vital signs of their patients. The most important use of this project is to enhance patient outcomes by enabling medical professional to more precisely and efficiently track the vital signs of patients, recognize patterns and trends, and make decisions regarding patient care that are guided by relevant information.

MAJOR APPLICATIONS



Complete Patient
Profile Record
Management



Tracking & Monitoring
Patient's Vital Signs



Generation of Patient's
Vital Sign Reports via
PDF or CSV file



Improving patient
outcomes



MAJOR MODULES/FUNCTIONS

❖ Tkinter 

❖ Tkcalendar 

❖ Fpdf 

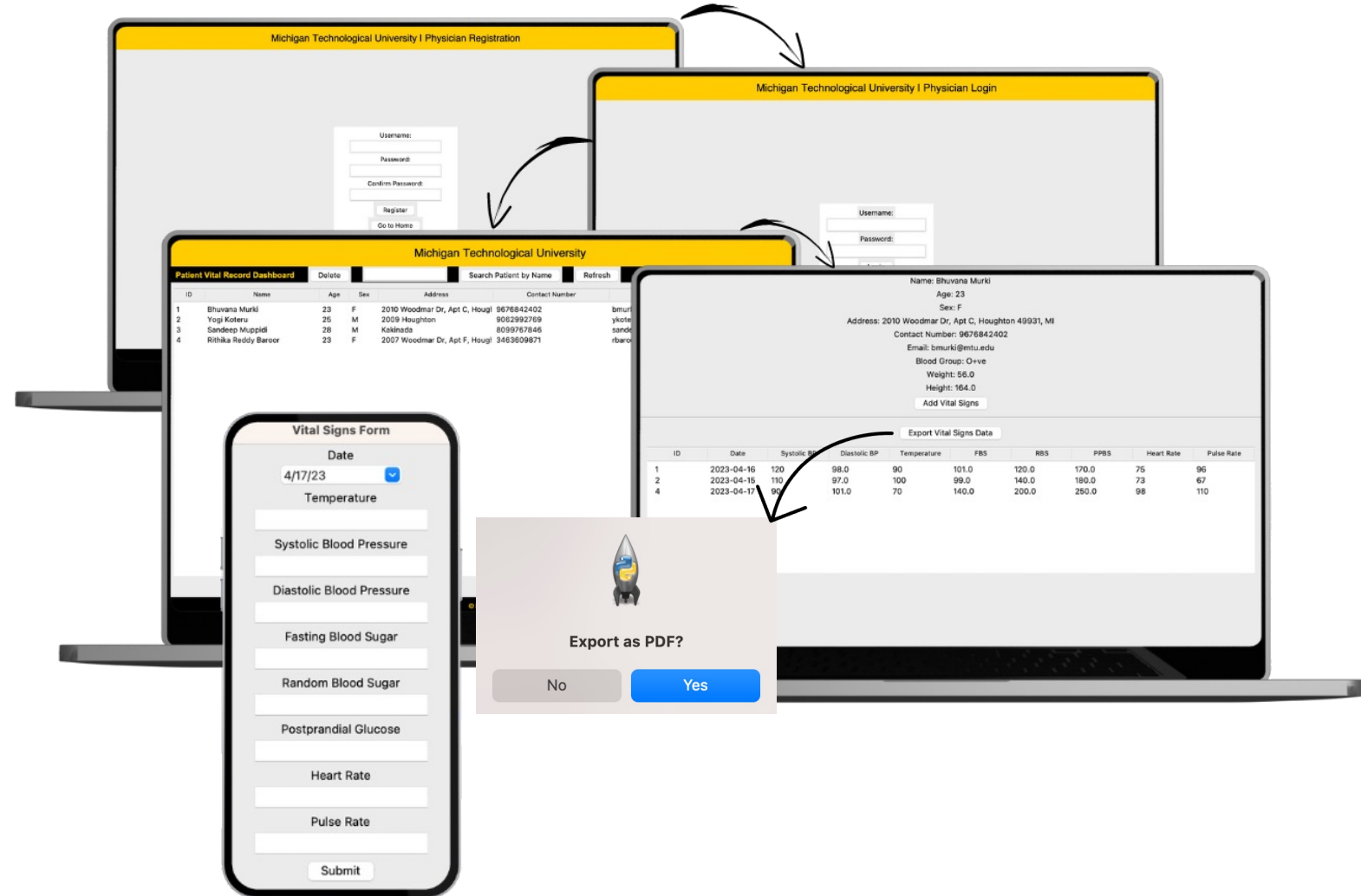
❖ Sql Connector 

❖ Haslib 

❖ re 

❖ PIL 

SCREENSHOTS:



PATIENT PROFILE FORM

Patient Name: Bhuvana Murki
Age: 23
Sex: F
Address: 2010 Woodmar Dr, Apt C, Houghton 49931, MI
Contact Number: 9676842402
Email: bmurki@mtu.edu
Blood Group: O+ve
Weight(in Kilograms(kg's)): 56.0
Height(in centimeters): 164.0

Daily Vital Report

ID	Date	Systolic BP	Diastolic BP	Temperature	Fasting Blood Sugar	Random Blood Sugar	Postprandial Glucose	Heart Rate	Pulse Rate
1	2023-04-16	98.0	120	90	101.0	120.0	170.0	75	96
2	2023-04-15	97.0	110	100	99.0	140.0	180.0	73	67
3	2023-04-17	101.0	90	70	140.0	200.0	250.0	98	110

CHALLENGES

Making User Friendly UI Design

Handling Patients Data

User Input Validation

Implementing and integrating various modules and libraries

PDF Template Design and Getting user database

FUTURE PLANS

- Integration with wearable devices
- Integration with Electronic Health Records (EHR)
- Data Analytics & Machine Learning
- Web & Mobile App Development



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Thank you for joining me today to explore the exciting world of vital record management system. It has been a pleasure to share my passion for this project with you.

