VISIONGLYCO

“**VisionGlyco: Blood Glucose Monitoring for Efficient & Pain-free Diabetes management.**

# SOFTWARE INSTRUCTION:

This document is crucial to provide users with some context and guidance on how to get started with the VisionGlyco platform. Here's a breakdown of what should come before the specific steps:

# Getting Started:

* Upon registration, users will receive login credentials to access the VisionGlyco platform.
* Visit the VisionGlyco download the mobile app from your device's app store.

# Capturing Eye Images:

* Ensure proper lighting and focus on your eye.
* Attach the custom anterior segment iris imaging adapter to your smartphone.
* Open the VisionGlyco app and navigate to the "Capture" section.
* Follow the on-screen instructions to capture high-resolution images of your eye.

# Blood Glucose Prediction:

* Once the image is captured, VisionGlyco's deep learning computer vision framework will analyze iris morphological variation.
* The platform will then predict your blood glucose level based on the analysis.

# Data Storage and Analysis:

* Your blood glucose levels are securely stored in the cloud using Azure SQL Database.
* Access your glucose level history and long-term trends through the platform's analytics feature.

# Automated Alerts:

* Parents of diabetic children will receive automated alerts if their child's glucose levels reach critical levels.
* Ensure that alerts are enabled in the platform settings to receive notifications.

# Offline Sync Feature:

* VisionGlyco operates without an internet connection using Azure Mobile App Services' offline sync feature.
* You can use the platform even in areas with limited internet connectivity.

# Maintenance:

* Unlike traditional invasive methods, VisionGlyco requires minimal maintenance.
* No calibration or replacement of test strips and sensors is needed.

# Additional Features:

# Explore additional features such as video streaming, contracts, avatars, and audio for a comprehensive virtual experience.

# Utilize tools and features designed for businesses to streamline operations and connect with others.

# Support and Assistance:

# For any questions or assistance, reach out to the VisionGlyco support team through the platform's help section or contact customer support directly.

# Offline Sync Feature:

* Keep an eye out for platform updates and new features to enhance your experience and optimize blood glucose management.

VisionGlyco offers a user-friendly and non-invasive solution for managing blood glucose levels, providing comfort and convenience to diabetic patients worldwide.

**Here's a refined version of your progress report:**

1. Our journey commenced with the acquisition of data, specifically eye images of diabetic patients. We've made significant strides in this regard, successfully amassing approximately fifteen hundred images sourced from various hospitals and clinics.
2. Subsequently, we embarked on the development of a deep learning computer vision framework to analyze these images. I'm pleased to announce that this phase has been completed with success.

* For a visual demonstration of our deep learning model in action, I invite you to watch our demonstration video: <https://youtu.be/h4Vpy7kzaVw>

1. With the framework in place, our focus shifted towards designing the prototype for our mobile application. I'm delighted to report that this milestone has been achieved, and you can explore our prototype through the following link: <https://youtu.be/H4RFDAaxZJU>
2. Presently, we are fully engaged in the development phase of our application. Our team is diligently working on crafting our Azure Mobile App, integrating it seamlessly with an Azure SQL Database to ensure optimal functionality and user experience.

**Note:** As we've successfully completed the development of our deep learning computer vision model and the prototype for our mobile application.