

# User Manual for Retinal Disease Detection System

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Comprehensive Guide for Patients and Doctors

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## 1. Introduction

### System Overview

This web-based medical imaging system helps detect diabetic retinopathy and glaucoma by analyzing fundus images of the retina. It provides instant results, recommendations, and a secure history log for tracking eye health.

### Key Features

- ✓ User-friendly interface for patients & doctors
- ✓ Automated disease detection with AI analysis
- ✓ Recommendations based on results
- ✓ Secure image storage & history tracking
- ✓ Direct feedback & admin support

### Who Should Use This System?

- Patients monitoring their eye health
- Doctors seeking a quick diagnostic aid
- Clinics integrating AI-based screening

## 2. Getting Started

### System Requirements

- A modern browser (Chrome, Firefox, Edge)
- Stable internet connection
- High-quality fundus image (JPEG/PNG, min. 1024x1024 pixels)

### Creating an Account (Registration)

1. Click "Sign Up" on the homepage/ you can also sign up directly with google.
2. Fill in:
  - Name
  - Email
  - Password (8+ characters, including numbers & symbols)
3. Verify your email via the confirmation link sent.

**Tip:** Use a strong password and keep it secure.

### Logging In

1. Visit the login page.
2. Enter your email and password / Sign in via google.
3. Click "Login".

**Password Recovery?** Click "Forgot your Password" and follow the email instructions.

### **3. Uploading and Analyzing Fundus Images**

#### **Image Requirements & Best Practices**

- ✓ High resolution (1024x1024px minimum)
- ✓ Clear focus (no blur or reflections)
- ✓ Well-lit retina (avoid shadows)
- ✗ Avoid low-quality, cropped, or tilted images.

#### **Step-by-Step Upload Process**

1. After logging in, click "Choose Image".
2. Drag & drop or browse your fundus image.
3. The system will adjust image quality.
4. If approved, click "Upload Images".
5. If rejected, retake/upload a clearer image.

### **4. Recommendations**

Based on your results, the system will suggest:

- ✓ Next steps (e.g., see a retina specialist or glaucoma workup if needed)
- ✓ Lifestyle tips (control blood sugar, blood pressure, avoid smoking)
- ✓ Recommended follow-up interval for future screenings

### **5. Viewing History & Reports**

Go to "History" in the dashboard.

You can view your all past scans.

### **6. Feedback & Support**

#### **Overall Feedback:**

Click "Feedback" in the menu.

Rate your experience and describe any issues.

Submit – the admin will review your comments.

**Individual Feedback:** You can provide feedback on each of your results on the home page in the results section or on the history page.

#### **Contacting Admin:**

Please submit your query in writing, providing clear details of your issue or question, and our support team will respond promptly.

## 8. Glossary of Terms

**Fundus Image:** A photograph of the retina.

**Diabetic Retinopathy:** Diabetes-related eye damage.

**Glaucoma:** A condition damaging the optic nerve.

## 9. Privacy & Security

- Your data is encrypted.
- Images are stored securely.
- Only you can access reports.

- This manual ensures smooth navigation through the retinal disease detection system. For further assistance, contact our support team.

*Stay proactive about your eye health!*

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