ImageMedix User Manual

Introduction

Welcome to ImageMedix, an AI-powered medical image analysis platform designed to help healthcare professionals analyze medical scans, specifically chest X-rays and brain MRI scans. This user manual provides detailed instructions for using the ImageMedix application.

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1. Landing Page

When you first access ImageMedix, you'll be greeted by the landing page which includes:

- Navigation header with links to Features, How It Works, Get Started, and Contact
- Hero section with a brief description of the platform and call-to-action buttons
- Features section highlighting capabilities like Rapid Diagnostics, High Accuracy, and Unified Platform
- How It Works section showing the four-step process: Upload, Analysis, Results, and Decision Making
- Vision section explaining the technological objectives and future applications
- Call-to-action section to get started or contact for more information

From the landing page, you can:

- Click "Sign In" in the top right to access your account
- Click "Get Started" to begin using the platform (redirects to sign-in if not authenticated)

2. Authentication

Sign In

1. Click "Sign In" from the landing page
2. You'll see a sign-in form with:
    - Option to sign in with Google (single click)
    - Email field for email-based login
    - Password field (for email login)
    - "Sign up" link if you don't have an account
3. For Google sign-in:
    - Click the "Continue with Google" button
    - Select your Google account in the popup window
    - Authorize the application if prompted
4. For email sign-in:
    - Enter your email and password
    - Click the sign-in button
5. The system will briefly show a "Completing login..." screen
6. If authentication is successful, you'll be redirected to the Home/Dashboard page

Sign Up

1. From the Sign In page, click "Sign up" at the bottom
2. Choose between:
    - Sign up with Google (single click)
    - Create account with email
3. For Google sign-up:
    - Click the "Continue with Google" button
    - Select your Google account in the popup window
    - Authorize the application if prompted
4. For email sign-up:
    - Fill in your name, email, and password
    - Click "Sign up"
5. You'll see a "Processing login..." screen briefly
6. After successful registration, you'll be redirected to the Home page

3. Home/Dashboard

After successful authentication, you'll be directed to the Home page which includes:

- Sidebar navigation with links to Dashboard, Upload Scans, History, Settings, and About
- Welcome message with your name
- Three main action cards:
    1. Upload New Scan: Quick access to upload medical scans
    2. Recent Scans: View your recently uploaded scans

3. **Settings:** Manage your account settings

The sidebar remains consistent across all pages for easy navigation. It also displays your user profile at the bottom with a logout option.

4. Upload and Scan

1. **From any page, click "Upload Scans" in the sidebar or select "Upload New Scan" from the Home page**
2. **On the Upload page: a. Select Scan Type:**
    - **Choose between "Brain Scan" or "Chest X-Ray" using the toggle buttons**

    b. Enter Patient Information:

    - **Patient ID (required)**
    - **Patient Name (required)**

    c. Upload Files:

    - **Drag and drop files into the upload area or click to browse**
    - **Supported formats: PNG, JPG, JPEG, GIF, DICOM (max 10MB)**
    - **Uploaded files appear in a list below with status indicators**

    d. Start Analysis:

    - **Click "Upload & Analyze X-rays" or "Upload Scans" button**
    - **The system will begin processing your files, showing status updates:**
        - **Pending**
        - **Uploading**
        - **Analyzing**
        - **Success/Error**

    e. Processing:

    - **Files are analyzed one by one**
    - **Status is updated in real-time**
    - **For each completed analysis, you'll see:**
        - **Condition detected (Normal/Pneumonia for chest X-rays, Normal/Tumor for brain scans)**
        - **Confidence percentage**
        - **"View Report" button**
3. **Once all files have been analyzed, a success message appears, and you can either:**

- View detailed results by clicking "View Report" for any individual scan
- Click "View All Results" to go to the History page

5. Viewing Analysis Results

After a scan is analyzed, you can view detailed results in two ways:

Direct Viewing (from Upload page)

1. Click "View Report" on any successfully analyzed scan
2. A modal window appears with detailed information: a. Patient Information section:
   - Patient name
   - Patient ID
   - Scan type
   - File name

   b. Diagnostic Summary section:

   - Finding (Normal/Pneumonia or Normal/Brain Tumor)
   - Confidence percentage with visual indicator
   - Analysis date and time

   c. Detailed Report section:

   - Technical analysis text
   - Option to download the report as a text file

   d. AI Analysis section:

   - Explanation of findings from the AI system

   e. Actions:

   - Download Report button
   - Close button

From History Page

- Results can also be viewed from the History page (detailed in section 6)

6. History Page

The History page displays all previously uploaded scans and their results:

1. Access the History page by clicking "History" in the sidebar or "Recent Scans" on the Home page
2. The page displays a list of all your uploaded scans with:
   o Patient ID
   o Upload date and time
   o Scan type
   o Status (completed, processing)
   o Diagnosis result (if completed)
   o Confidence percentage (if completed)
3. For each scan, you have two options:
   o View Details: Opens a detailed view modal similar to the one in the Upload page
   o Delete: Removes the scan from your history (with confirmation)
4. When viewing scan details:
   o See all diagnostic information
   o Download the report as a text file
   o View the original scan image
   o Close to return to the History list
5. The page also includes:
   o "Upload New Scan" button to quickly add more scans
   o Refresh button to update the list

7. Settings

The Settings page allows you to customize your account:

1. Access Settings by clicking "Settings" in the sidebar or the Settings card on the Home page
2. The page is divided into three sections: a. Profile Settings:
   o Full Name (editable)
   o Email (non-editable, linked to your account)

   b. Preferences:

   o Email Notifications toggle (receive notifications about scan analysis results)
   o Dark Mode toggle (use dark theme for better visibility)

   c. Security:

   o Change Password link
3. After making changes, click "Save Changes" to update your settings

Change Password

1. Click "Change Password" in the Security section
2. Fill out the form:
    o Current Password
    o New Password
    o Confirm New Password
3. Click "Update Password" to save changes
4. You'll be redirected back to the Settings page after successful update

8. About Page

The About page provides information about ImageMedix, including:

- Company information
- Technology details
- Contact information
- Team members

Additional Features

Logout

- Click "Logout" at the bottom of the sidebar to sign out
- You'll be redirected to the Sign In page

Viewing Downloaded Reports

- Reports are downloaded as text files (.txt)
- You can open them with any text editor
- They contain a detailed analysis of the scan with findings and recommendations

Troubleshooting

Common Issues

1. Failed uploads:
    o Check your internet connection
    o Ensure file is under 10MB and in a supported format
    o Try refreshing the page and uploading again
2. Analysis errors:
    o The system provides mock data if the actual analysis fails
    o Check that your image is clear and properly oriented
    o Try a different image if issues persist
3. Session timeout:
    o If inactive for too long, you may be logged out

- o **Simply sign in again to continue**