



AI HEALTH SENSE

INTRODUCTION

AI HealthSense – Smart Eye Care Platform

AI HealthSense is a web app that uses AI to detect eye diseases (CNV, DME, Drusen, Normal) from X-ray images. Built with the MERN stack, it offers:

- AI Diagnosis
- Doctor Search
- Diet Recommendations

It bridges healthcare gaps with accessible, intelligent, and preventive eye care.



PROBLEM STATEMENT

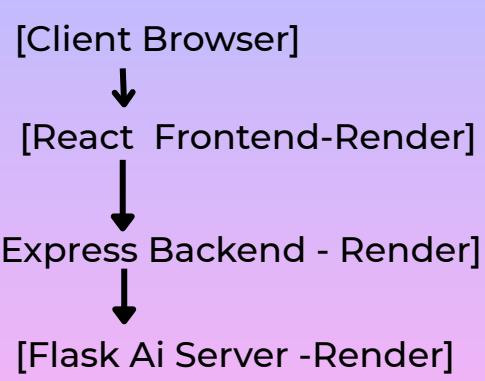
In Pakistan and similar regions, limited access to eye specialists leads to late detection of diseases like DME, CNV, and Drusen, making treatment harder and costlier. Existing AI tools are complex and inaccessible, while doctor directories lack depth and preventive support. There's a need for an integrated, AI-driven platform for early diagnosis, specialist connection, and personalized health guidance.



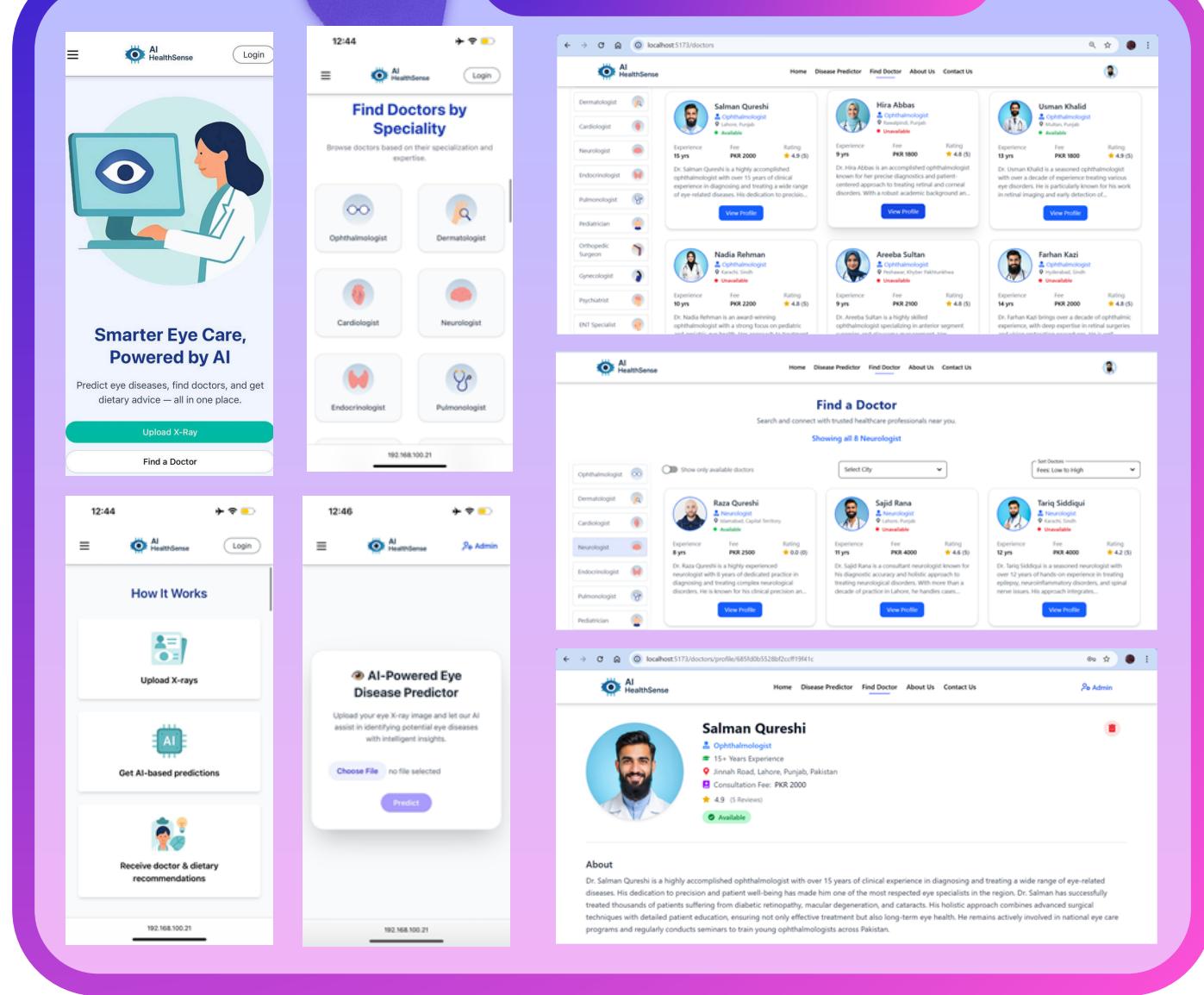
OBJECTIVES

- AI-powered diagnostic system
- Doctor search module
- Doctor Profile
- Condition-specific dietary advice
- Responsive and user-friendly interface
- Scalability and modularity

SYSTEM ARCHITECTURE



USER INTERFACE



AIMS

- Web-based healthcare platform
- To improve access to specialized medical professionals
- To support preventive care through personalized dietary guidance.

CONCLUSION

AI HealthSense is a secure AI-powered web platform for detecting eye diseases and connecting users with specialists. Using the MERN stack and TensorFlow, it offers image-based diagnosis, doctor search, and dietary guidance. With OTP, JWT, and role-based access, it ensures data security and is designed for future scalability in healthcare settings.

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