***Non- functional Requirements***

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1. **Usability:**

In the web app, there is a basic graphic user interface (GUI) which navigates health workers that enroll the patients; upload x-rays and receive diagnoses in no time. There are visual aids to guide main steps; tooltips define actions. The application should run on several languages; users choose English or others. The dashboard indicates the patient’s status; colors define risk. Red shows high risk; yellow defines moderate risk; green indicates no risk. Efficiency is the main target of the system which enables workers to complete tasks within three minutes.

1. **Accessibility:**

The application is accessibility-centered; it meets WCAG 2.1 Level AA. This level enables the disabled users to navigate easily. Screen readers function; keyboard controls control all functionality. Visual adjustments are in place; high-contrast mode improves readability; font sizes differ. Offline data entry persists; the system keeps ten patient records. Reconnection resumes; records sync automatically. The design gives priority to inclusivity; it gives all users access to key health data. The interface is flexible; it adapts to varying needs. It provides uniform access; it retains functionality in different conditions.

1. **Availability:**

The application provides high availability; it runs 99.9% every month. Maintenance constraints; downtime is never over 43 minutes. Issues on the server automatically fix themselves; failover guarantees continuous service. The platform manages heavy usage; it accommodates 500 users simultaneously. Performance remains consistent. Users get prompt notification; they're informed of scheduled maintenance one day in advance. The system prioritizes reliability; it keeps interruptions to a minimum. It seeks steady performance; it alerts users to any changes. It provides reliable service; it connects users.

1. **Performance:**

The system offers speed; diagnoses in five seconds after upload. Patient data retrieval is quick; records appear in two seconds. Volume is managed by the database; ten thousand records stores without slowing down. Image processing is quick; 10 MB files upload with processing remaining swift. Quick results are needed by users; the system offers it. It prizes quick response; it sustains smooth workflow. It offers timely information; it has effective operations. The structure balances speed; it processes data well.

1. **Security:**

Security is essential; data is held encrypted by AES-256; data is sent safe under TLS 1.2+. Access is restricted by role; health staff enter data; clinicians check diagnoses. Clinicians require additional security; remote access is safeguarded by multi-factor authentication. Inactivity automatically logs out; fifteen minutes elapse; the session closes. The system prioritizes protection of data; it bars unauthorized access. It preserves user privacy; it safeguards sensitive data. It prioritizes the safety of information; it applies strong authentication. It maintains data integrity; it employs strong encryption.

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