

Pathology Lab

Sanskriti Walke¹, Mayur Sathe², Sanskruti Adigopul³, Prof. Sweety A Wanave⁴

Diploma Students, Department of Computer Engineering^{1,2,3}

Faculty, Department of Computer Engineering⁴

Shri. Chhatrapati Shivaji Maharaj College of Engineering, Nepti, Ahmednagar, India

Abstract: *Clinical pathology is a field that diagnoses and studies diseases using laboratory methods, utilizing standardized principles to evaluate and support the accuracy of laboratory data. The pathology laboratory is the constitutes an invaluable asset for clinical research.*

Keywords: laboratory, pathology, standardized, evaluate

I. INTRODUCTION

The pathology laboratory is the constitutes an invaluable asset for clinical research. Lab Tests Online aims to create a website that simplifies finding patient lab reports, reducing manual labor and time spent collecting reports. The website provides on-the-go functionality, allowing users to access lab reports anytime. Patients pay for tests at the lab and receive receipts for Pathology lab reports. Other reports, such as ECG, CT, X-Ray, and MRI, are not available online and require hospital visits.

The proposed system will be well-planned and organized, ensuring proper data storage and retrieval. It will also ensure higher accuracy levels, ensuring the accuracy of information from the center.

The proposed system aims for high reliability due to proper information storage, no redundancy, immediate retrieval of information, efficient storage, and easy operation. It ensures economic use of storage space and consistency in data. The system also addresses issues with manual systems and is designed to be developed within a short timeframe and user budget.

II. NEED FOR SYSTEM

The proposed system aims to improve organizational efficiency, accuracy, reliability, and redundancy by ensuring proper data storage and retrieval. It aims to provide quick and efficient information retrieval, addressing issues with manual systems. The system also aims to ensure no redundancy, ensuring economic use of storage space and consistency in data. It is designed to be easy to operate, developed quickly, and fit within a user's budget, making it a cost-effective solution for a variety of users.

III. SCOPE OF WORK

The Online Pathology Lab aims to register and maintain patient information, build a summary system, and generate reports from database records. It also aims to summarize accidental records and respond to improvements. The system can interact with gift shops and be effective and time-consuming. As computers become essential in offices, the system must adapt to future trends.

Test Procedures and Implementation

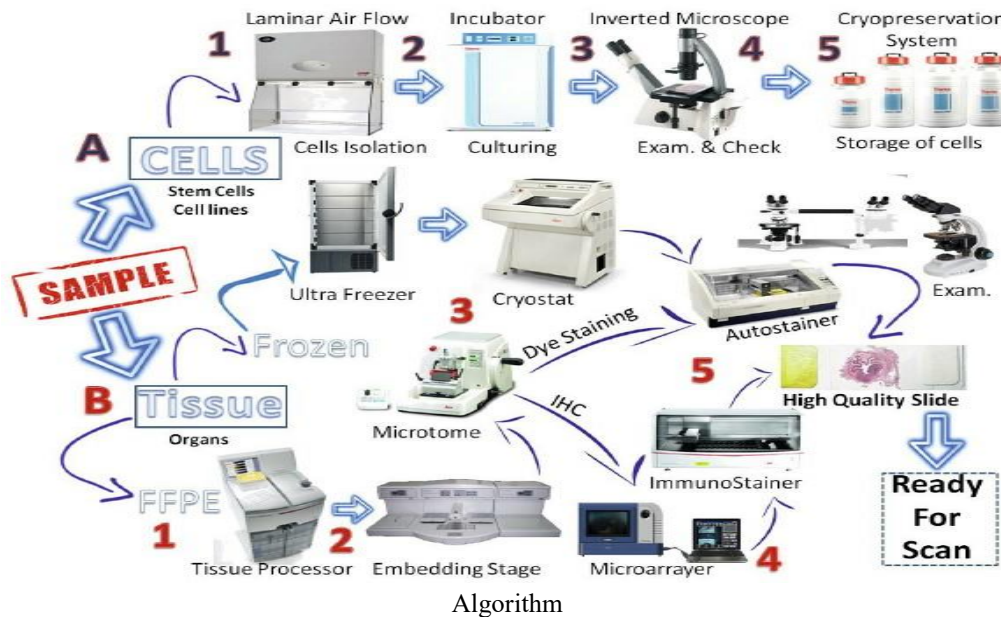
Software Testing Procedures and Testing Methods

Software testing is crucial for software quality assurance and involves two approaches: Black Box Testing and White Box Testing. Black Box Testing examines the software interface and identifies errors, while White Box Testing focuses on procedural details. The Test Plan outlines the scope, approach, resources, and schedule of testing activities, including items to be tested, features to be tested, types of testing, and resources required. Unit/Module Testing verifies the implementation of design for one software element, while Integration Testing combines software and hardware elements to ensure design objectives are met and the software complies with operational requirements. User Interface Testing ensures efficient application operation on client machines, Security Testing allows users to log in, and Regression Testing

ensures changes to the application do not adversely affect previously tested functionality. Acceptance Testing determines if the product meets user acceptance criteria, while Beta Testing verifies the system meets business functional requirements using a pre-release version.

IV. SOFTWARE INTERFACES

The Online Pathology Lab will use a Database Management System (DBMS) to store necessary information for the system's operation, including doctor, admin, profiles, and dietary requirements, for accounting and accountability purposes



V. CONCLUSION

Online Pathology conclusions can inspire doctors and showcase brain power. Avoid offline sample testing and focus on patient samples for trusted results. Learn smart work and avoid garbage conclusions.

Purpose

The Diagnostics Lab Management Software allows patients to book tests like CBC, Blood Glucose, KFT, and LFT, calculate costs, and pay online. It reduces costs, improves efficiency, and saves time. It is user-friendly, streamlines bill and report generation, and enhances privacy and accuracy.

REFERENCES

- [1]. www.google.com
- [2]. www.youtube.com
- [3]. www.youtube.com