

# **Project Proposal**

## **Lab Test Reports Via Online**



**Submitted by - GROUP TECHNO (Cluster 8.5)**

**B.F.Faseeha (s92075526)**

**V.P.K.Tharaka (s92060907)**

**M.J.F.Nasrin (s92070318)**

**K.F.Afrin Zuha (s92066058)**

**Supervisor**

**Mr. Kasun Aratthange**

**EEY4189 Software Design in Group**

**Bachelor of Software Engineering**

**Open University Of Sri Lanka.**

**2022-10-03**

# Table of the Content

---

<b>Executive Summery</b> .....	<b>3</b>
<b>Product Description</b> .....	<b>3</b>
Problem we solve .....	3
About the Product.....	4
Unique Features .....	4
SWOT analysis.....	4
<b>Existing Problems</b> .....	<b>5</b>
<b>Solutions for problems</b> .....	<b>5</b>
<b>DFD for the System</b> .....	<b>6</b>
<b>Market Analysis</b> .....	<b>7</b>
<b>Minimum Viable Product (MVP)</b> .....	<b>7</b>
<b>Staffing &amp; Operations</b> .....	<b>8</b>
<b>Operation Plan</b> .....	<b>9</b>
<b>Millstones &amp; Reporting</b> .....	<b>10</b>
<b>References</b> .....	<b>11</b>

# Executive Summary

---

Ever since the pandemic struck the world, we have to switch digital mode. In this situation we cannot go to the hospital to test our lab reports and consult doctor. This mobile application is a utility for lab executives and helps them to review, monitor and analyze the lab performance metrics on a daily basis such as daily census, average length of patient stay in this app, number of patients checked for a given day, patient details like name, age and phone numbers, diagnosis details like the least and the most common diagnosed diseases and patient demographic distribution like percent of patients coming from each address. Without using paper-based generated reports and mobile app reports, we are developing this app to get the online lab reports and doctor's consultation.

Then we can easily get our lab reports and doctor consult. This app helps to manage our time. This app is user friendly app. anyone can log and booking numbers and consult doctors at time. User can sign up with (register) with the application. By this app we can manage our time. This app is user friendly app any one can log and booking numbers and consult doctors at any time. Within two days we can download the lab test report in this app after consult doctor within two days. This app provides more features for person. We think this app is most use full for pandemic situation for all peoples. In Future, we will try to add more futures to add this app and hope it will be useful for every people.

The mobile app improve the effort of lab executives by providing lab operational data in probably manner with ease of access and help them in making effective decisions required for improving the quality of person care services.

## Product Description

---

### Problem we solve

- Ever since the pandemic struck the world early this year. We have to switch to the digital mode.
- In this situation we cannot go to the hospital to test our lab reports & consult doctor.

### About the product

- We can develop a mobile application to get the online lab reports and doctor's consultation.
- This mobile application is used in the healthcare industry and labs.
- This has been designed with an innovative approach for the user-friendly and effective interface.

### Unique Features

- Results feeding
- Registration
- Sample collection
- Recipient's reports
- Notifications
- Messaging
- Search Feature
- It can improve the accuracy and privacy of the right test results.

### SWOT Analysis

<b>Strengths</b> <ul style="list-style-type: none"><li>• Improved Patient Safety</li><li>• Greater Efficiency of Operation</li><li>• Current Investment in IT</li><li>• Qualities that separate you from your competitors</li></ul>	<b>Weaknesses</b> <ul style="list-style-type: none"><li>• Lack of System Integration</li><li>• User Resistance</li><li>• Slow IT Adoption</li><li>• Advertising and promotional limitations</li><li>• Technology barrier</li></ul>
<b>Opportunities</b> <ul style="list-style-type: none"><li>• The Internet</li><li>• Favorable External Environment</li><li>• Industry Standards</li><li>• cost-effectiveness</li><li>• Increased trust in patients</li></ul>	<b>Threats</b> <ul style="list-style-type: none"><li>• Legal Compliance</li><li>• Loss of Patient Trust</li><li>• Costs</li><li>• Rising competitors</li><li>• Security Breaches</li></ul>

## Existing problem

---

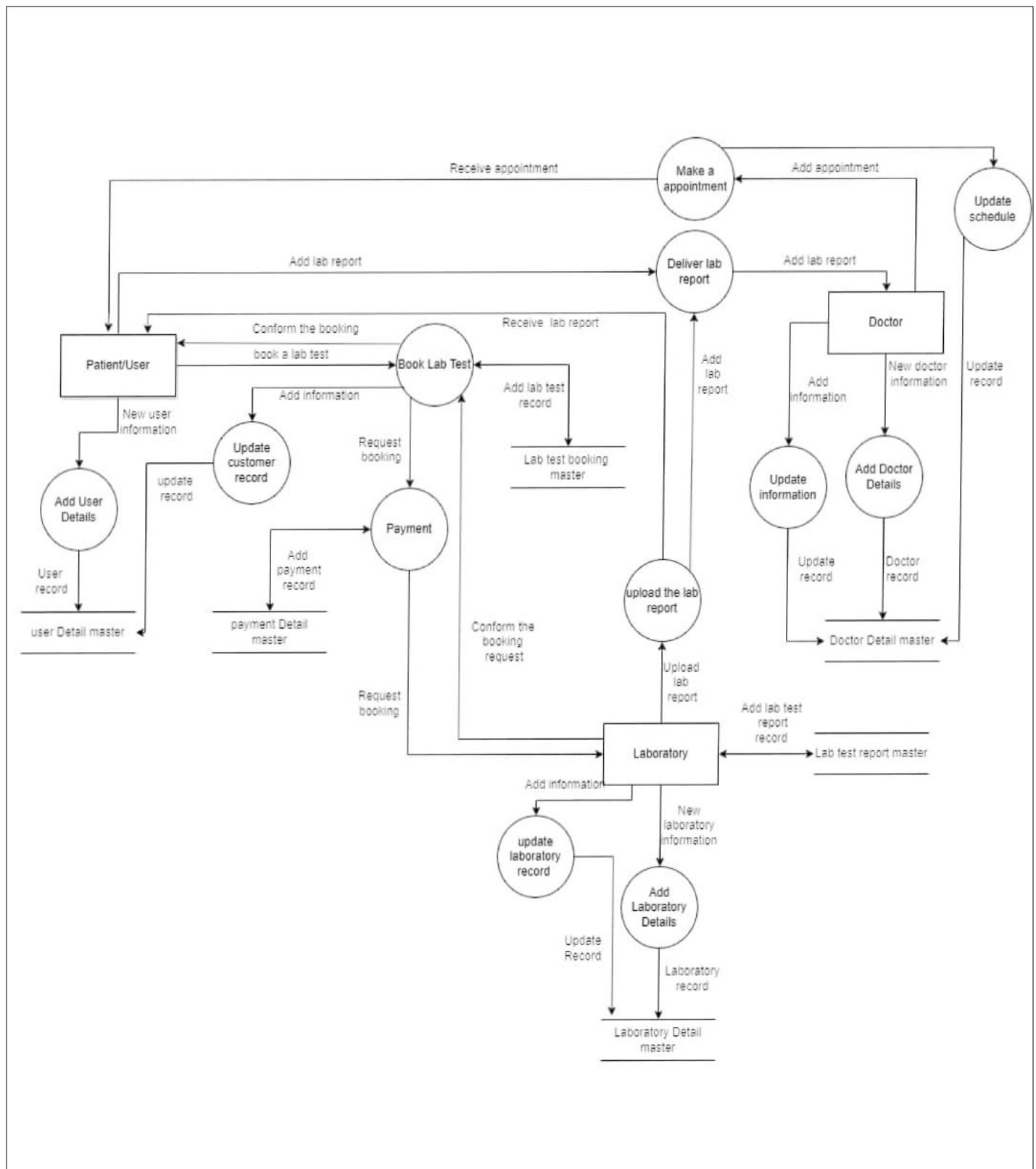
- Every time end of medical lab test user must wait at least minimum one hour or visit other days to collect test report. But most people miss or forget to collect lab report due to present busy schedule. Even they did collect report have to pay extra time for that.
- Even we got lab report for further medical treat we must visit medical center.
- Each time after submitting the lab report most people put away that or they don't care again it. Even the lab report store in laboratory system user didn't have to access them.
- Most of user keep a little record book for their treatment and doesn't care much about them.

## Solutions for problem

---

- We introduce an option that after done laboratory test user do not want waste time by waiting the laboratory will send lab report by given option. If user want can send it via email and other social media also can download the report.
- Submitting lab report via mail to doctor user can get needed medical by online.
- Use can check all the lab report that receives via this mobile application.

# DFD for the system



# Market Analysis

---

Features	Lab test app medical lab test	MyLabReports	Lab Test Results	SRL Diagnostics
3 D view	No	No	No	Yes
Push notifications	Yes	Yes	Yes	Yes
Suggest places	Yes	No	No	Yes
Direction by voice / visual impaired support	No	NO	No	No
Capability to use offline	No	No	Yes	No
Integrate with personal directory / room no, name etc.	Yes	Yes	Yes	Yes
Instant video Consultation	Yes	No	No	No

## Minimum Viable Product (MVP)

---

- **Date of release :** 4<sup>th</sup> February 2023

# Staffing and Operation

---

Name	Role	Responsibilities
B.F.Faseeha	Project Manager	<ul style="list-style-type: none"><li>• Create the project plan</li><li>• Manage Components</li><li>• Delegate tasks to key team members</li><li>• Create Project Schedule</li><li>• Lead the members through each phase</li><li>• Try to solve the problems</li><li>• Communicate to team members</li></ul>
V.P.K.Tharaka	Project Coordinator	<ul style="list-style-type: none"><li>• Ensuring the schedule</li><li>• Maintain budget details of a given tasks are well organized</li><li>• Communicate with supervisor and board</li><li>• Organizing reports</li><li>• Plan meetings</li><li>• Provide updates to the manager</li></ul>
M.N.F.Nasrin	Project Analysis	<ul style="list-style-type: none"><li>• Documenting</li><li>• Look the project from different way</li><li>• Identify issues and take action</li><li>• Managing Reports</li><li>• Gathering requirements</li></ul>
K.F.Afrin Zuha	Time Keeper	<ul style="list-style-type: none"><li>• Record all actions</li><li>• Writing meeting minutes</li><li>• Managing time for meetings</li><li>• Note deadlines</li><li>• Inform all members about the deadline of tasks</li></ul>



# Operation Plan

[illegible]

# Milestones and Reporting

---

Milestone	Responsibility	Milestone Deliverables	Deliverable Date
Milestone 1 : Form Groups	Form a group of 4 members	Fill Google form	27-09-2022
Milestone 2 : Assignment of Mentors	Submit project idea	PowerPoint presentation slides about project idea, Group members list and group name.	27-09-2022
Milestone 3: Project proposal submission	Report submission as a softcopy	Report <ul style="list-style-type: none"> <li>• Executive Summery</li> <li>• Product Description</li> <li>• Existing problems</li> <li>• Solutions for the problem</li> <li>• DFD for the system</li> <li>• Market Analysis</li> <li>• Minimum Viable Product</li> <li>• Staffing &amp; Operation</li> <li>• Operation Plan</li> <li>• Milestones &amp; Reporting</li> </ul>	03-10-2022
Milestone 4 : Software Requirement Specification(SRS)	Report submission as a softcopy	Meet mentor and get the feedback	03-11-2022
Milestone 5 : Progress Review Presentation	Submit Presentation Report	Report: Project idea, SRS, Design Document	2nd, 3rd, 4th, 5th December 2022

Milestone 6 : Report Submission	Report submission as a softcopy	Report: <ul style="list-style-type: none"> <li>• Revised Architectural Diagram</li> <li>• Revised UML Diagrams</li> <li>• Progress of the implementation</li> <li>• Test Case Document</li> <li>• Appendix (Reflective journal, Meeting minutes)</li> </ul>	31-12-2022
Milestone 7: Final Report Submission	Report submission as a softcopy	Report: <ul style="list-style-type: none"> <li>• Background of the Project</li> <li>• Literature Survey &amp; Competitor Analysis</li> <li>• Design</li> <li>• Development</li> <li>• Test Results</li> <li>• Conclusion</li> <li>• Appendix (SRS, Design Document, Reflective journal, Meeting minutes)</li> </ul>	15-01-2023
Milestone 8: Final Presentation	Demonstration of the completed project to a panel of examiners.	Each member need to present and answer the questions raise from the audience. Should prepare for 10 minutes presentation.	4th,5th,6th,7th February 2023

## References

---

- Worldometer. COVID-19 Coronavirus pandemic. <https://www.worldometers.info/coronavirus/>. Accessed October 6, 2020.
- American Association of Clinical Chemistry. What does turnaround time say about your lab. <https://www.aacc.org/cln/articles/2014/july/turnaround-time>. Accessed October 6, 2020.
- Johnson AJ, Easterling D, Nelson R, Chen MY, Frankel RM. Access to radiologic reports via a patient portal: clinical simulations to investigate patient preferences. *J Am Coll Radiol*. 2012.
- Christensen K, Sue VM. Viewing laboratory test results online: patients' actions and reactions. *J Particip Med*. 2013.

**Thank You!**