SYNOPSIS

ON

Machine Booking System

FOR **Inbody India Private Limited**

IN PARTIAL FULFILMENT OF

MASTER OF COMPUTER APPLICATION

BY

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MCA – III SEM - V

2019-2022

SUBMITTED TO

SAVITRIBAI PHULE PUNE UIVERSITY

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Machine Booking System

Inbody India Private Limited

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1. INTRODUCTION

It is an web app for an Inbody India Private Limited, which provide an online demo machine booking system for the company. Inbody is an South Korea company which manufactures some of the most popular bioelectrical impedance scanners. This web app provide an online platform where company can monitor their machines which are given to clients for demo. With this app company employees can book the machine for demo, they cam see the vacant machine, can get notification for expiring the demo period of particular client.

1.2 EXISTING SYSTEM

There is no such existing systems. The records of booking were maintained in register manually. Company used to send demo machines to clients and maintaining the records in xl.

1.3 NEED FOR SYSTEM

As there was no system earlier so the need for need for system in to remove manual methods and implement a reliable and user friendly system for the company that make ease for the company to handle bookings of machine and equipment's and manage demo machines of clients . And it will also be easy for employee to book machine directly by visiting to the web app

1.4 SCOPE OF WORK

The main objective of building this product is to develop a lightweight, userfriendly, flexible and efficient management system. The goal is to develop a system that helps employee to book machines or equipment online sitting at remote. Company can add machines to their categorised location, can manage all the booking online, see valuable feedback of customers and improve the service if required.

1.4 OPERATING ENVIRONMENT

Hardware Requirement: I3 Processor, 500MB RAM

Software Requirement:
Browser- Goggle Chrome, Internet Explorer, Safari, Firefox

IDE
VS Code.

1.4 DETAIL DESCRIPTION OF TECHNOLOGY USED

Django : Django is a high-level Python web framework that enables rapid development of secure and maintainable websites. Built by experienced developers, Django takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It is free and open source, has a thriving and active community, great documentation, and many options for free and paid-for support.

GIT: Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency

SQLITE: SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine. SQLite is the most used database engine in the world. SQLite is built into all mobile phones and most computers and comes bundled inside countless other applications that people use every day.

HTML5 : The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

CSS3 : Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

Bootstrap5 : Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

JavaScript : JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled and multi-paradigm. It has dynamic typing, prototype-based object-orientation and first-class functions

Pythonanywhere : PythonAnywhere is an online integrated development environment and web hosting service based on the Python programming language. Founded by Giles Thomas and Robert Smithson in 2012, it provides in-browser access to server-based Python and Bash command-line interfaces, along with a code editor with syntax highlighting.

2.1 PROPOSED SYSTEM

The online automated system with web-based architecture that helps

- Customers
- Book machine
- Give feedback
- View expiring date of demo period
- View vacant machines
- Admin
- Admin can add new employee
- Admin can assign different permission and privileges to employee
- View bookings
- View feedbacks and improve
- Add Machines to database
- Change booking dates
- Data will be stored for long term for future analysis.

• System will be secured, reliable and user friendly.

2.1.1 FEASIBILITY STUDY

Feasibility study is the high level capsule version of the entire requirement analysis process. The objective of feasibility study is to determine whether the proposed system can be developed with available resources.

There are three steps to be followed for determining the feasibility study of proposed system. · Technical Feasibility

· Operational Feasibility

· Economical Feasibility

Technical Feasibility: It is concerned with hardware and software feasibility. In this study, one has to test whether the proposed system can be developed using existing technology or not. If new technology is required ,what is the likely hood that it can be developed ?The organisation for which the system to be developed is not provided online services .Hence there is a requirement of new hardware and software technology for the deployment of proposed system. As per client requirements the system to be developed should have speed response because of fast change info, programming productivity, reliability, security, scalability, integration and availability. To meet these requirements I as a developer found jsp1.1 as a right choice because of its features platform independence, modularity and reusability.

Operational Feasibility: Operational feasibility determines whether the proposed system satisfied the user objectives and can be fitted in to current system operation. The proposed system "Lending Tree" can be justified as operationally feasible basing on the following.

· The methods of processing and presentation are completely acceptable by the clients because they meet all the user and client requirements.

· The clients have been involved during the preparation of requirement analysis and design process.

· The system will certainly satisfy the user objectives and it will also enhance their capability.

· The system can be best fitted into current operation and requires little training to both administrator and dealer. With the help of this system customer to place order requires simple data entry through forms provided.The proposed system is completely user friendly.

Economical Feasibility: This includes an evaluation of all incremental costs and benefits expected if proposed system is implemented. costs-benefit

analysis which is to be performed during economical feasibility delineates costs for project development and weighs them against benefits of system. In this the proposed system replaces the manual process of receiving orders which benefits the organisation to get more orders and good response. So developing this system is economically feasible to organisation.

2.2 OBJECTIVES OF SYSTEM

Main objects are

- To reduce the manual work.
- To make process more seamless.
- To make information flow more easy and efficient.
- Eliminating physical interaction or visit and maintained xl sheets.
- Continuous improvement by taking feedback from customers.

2.3 USER REQUIREMENTS

Web Browser- Goggle Chrome, Internet Explorer, Safari, Firefox
(With good internet connection.)

3. TASK FOR ITERATIVE PHASES

4. REFERENCES

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