**5th Semester Project Report**

**On**

**JIST College Website**



Guided by-

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**CERTIFICATE**

The Project on JIST College Website submitted by Kaushik Kamal Borah (Roll 01 No. 22) in partial fulfillment of requirements for the 5th semester project of Bachelor of Science in IT of JIST, under Dibrugrarh University has been examined.

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Signature of the guide Signature of the HOD Mr.Hsuvas Borkakoty Mr.Jameson Mushahary

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**ACKNOWLEDGEMENT**

I, a student of B.Sc.IT 5th semester of Jorhat Institute of Science & Technology,Jorhat undertake a project work on “JIST College Website" as a 5th semester project under the guidance of Mr. Hsuvas Borkakoty.

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Thanking you all -

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**INTRODUCTION**

I developed a website for our college which will help students in taking registrations in our college.

Through this website, a student can register in this college. He/She just have to visit the website, login or sign in, fill the registration form and done. After doing registration, he/she can edit it. You don’t have to wait in long queue just to book an appointment. Now you can do it just at your fingertips.

**OBJECTIVES**

The main objectives of this website are:

* To develop a user friendly system to overcome the problem of standing in long queue to take registration.
* To make appointment booking easier.
* To make appointment from home.
* This system helps the clinic to manage the appointments efficiently by computerization the whole process.

**Feasibility Study**

Feasibility study of the system is a very important stage during system design.Feasibility study is a test of a system proposal according to its work ability impact on the organization, ability to meet user needs and effective use of resources.Feasibility study decides whether the system is properly developed or not.

The main aim of the feasibility study is to determine whether developing the project is financial and technically feasible.

Types of feasibility study:

1.Technical feasibility.

2.Financial Feasibility.

3.Operational Feasibility.

1. **Technical Feasibility:**

Technical feasibility means either the processing system fulfills all current technical requirements or not.If any processing system has been made in any particular operating system and if it is not able to perform on further advance operating system,then the system is called technically not feasible system.

This project is fully technically feasible.It can smoothly run on any android device with android 5.1 lolipop and above.

1. **Financial Feasibility:**

Financial feasibility means that if the system is technically and operationally perfect then also it should be cost effective in sense that the system must not be highly expensive.

Since this system is not related to any third party company so, it is completely free of cost.

1. **Operational Feasibility:**

Operational feasibility was done to assure that the product would be developed that is used or not and how will end user and management feel about the system.

The proposed system is feasibility because of the following reasons:

1. This system reduces the workload of the stuff of the clinic.
2. User can easily book appointment at fingertips
3. Easy to use because of the user friendly interface.

**System Study**

The proposed system is implemented to replace the manual system where the patients went to the clinic and book appointment manually.

**Advantages of this system :**

* Easy to use.
* Make appointment booking very easy.
* Keeping better records of previous appointment.
* It is completely free.

**Drawbacks of this system :**

* One user can book one appointment only.
* It allows only 8 bookings in a day.
* Appointments can be booked up to 7 days.
* One have to manually checked whether a time slot is free or not.

**Future development of this system :**

* To make a system such that it will allow more than 8 bookings.
* If a time slot is already booked,it will not be showed in the time slot list.
* Can be reduced the size of the application.

**Booking :**

User can submit the details along with the patient’s own details and the user can store these details in the form of records in the proposed system.

After giving all the information, the

**Maintenance:**

The user can view the records of previous appointments and can update it.

**SYSTEM IMPLEMENTATION**

PLATEFORM AND TOOLS USED IN IMPLEMENTAION:

**DATABASE:**

I used Google Firebase Database as the database.Firebase is platform which allow to build web and mobile applications without server side programming language. We can store users data on its real-time database which sync data among users data in no time.Firebase is a Google product which offers so many useful features like Real time database,Push notification,Firebase Authentication and many more. Here data is stored as JSON and synchronized in real time to every connected client.

**Integrated Development Environment(IDE):**

I used Android Studio as my IDE.For coding, JAVA is used and for designing,XML is used.Android Studio is the official integrated development environment for Google's Android operating system, built on JetBrains IntelliJ IDEA software and designed specifically for Android development.It is available for download on [Windows](https://en.wikipedia.org/wiki/Windows" \o "Windows), [macOS](https://en.wikipedia.org/wiki/MacOS" \o "MacOS) and [Linux](https://en.wikipedia.org/wiki/Linux" \o "Linux) based operating systems.

**Requirements to develop this app:**

To develop the HELP CENTER app, we need -

* Any laptop or desktop with active internet connection.
* Processor:
* RAM: 4 GB minimum, 8 GB recommended.
* Storage: 2 GB of available disk space minimum, 4 GB Recommended (500 MB for IDE + 1.5 GB for Android SDK and emulator).

**Requirements to run this app:**

To install and run the HELP CENTER app, we need -

* An internet connection.
* An active mobile with Android operating system
* The android version must be of Android 5.1 Lollipop or more.

**DATA FLOW DIAGRAM**

Level 0

**DATA FLOW DIAGRAM**

Level 1

**DATA FLOW DIAGRAM**

Level 2

For Authentication

**DATA FLOW DIAGRAM**

Level 2

For book appointment

**DATA FLOW DIAGRAM**

Level 2

For previous

**DATA FLOW DIAGRAM**

Level 2

For feedback

**ENTITY RELATIONSHIP DIAGRAM**

**SNAPSHOTS**

**CONCLUSION**

Now a days people stand in a long queue just to take appointment in clinics which is very time consuming and tiresome.

So, it is required to design a portable appointment booking system to speed up this process.

Hence,this application has overcome some of the drawbacks.People can now book appointment in just few seconds without any effort.Now,they don’t have to wait in long queue just to book appointment.

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