

# ROOM RENTAL APPLICATION

## MAJOR PROJECT REPORT

Submitted by

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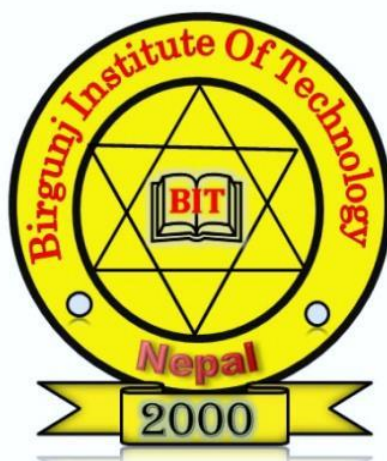
Under the Guidance

of

Er. Anish Ansari  
(Project Guide)

In partial Fulfillment for the award of degree  
of

Diploma in Computer Engineering



Birgunj Institute of Technology

(Affiliated to Council for Technical Education & Vocational Training)  
Batch-2077

# BIRGUNJ INSTITUTE OF TECHNOLOGY

Birgunj-14, Parsa, Nepal

Department of Computer Engineering



## RECOMMENDATION

This is certified that benefits record of the project work titled “*Roomie: Room Rental Application*” is being

*Submitted by*

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of 6<sup>th</sup> semester of Diploma in Computer Engineering in the year 2080 in the partial fulfillments of the requirements for the award of Degree of Diploma in Computer Engineering of “*Birgunj Institute of Technology (BIT)*”.

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Er. Anish Ansari  
(Project Guide)

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Er. Sarita Jayaswal  
(HoD of DCom)

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Name:.....  
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Er. Niraj Shriwastav  
(Principal)



# BIRGUNJ INSITUTE OF TECHNOLOGY

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Diploma in Computer Engineering

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## Viva-Voce Sheet

We have conducted the Viva Vice Examination of Major project presented by: -

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### Entitled

“Roomie: Room Rental Application” and found that major project to be the original work of the students and written according to the prescribed format. We recommend the major project will be accepted as partial fulfillment of the requirement for Diploma in Computer Engineering (DCom).

## Viva-Voce Committee

Project Guide: -

.....

External Expert: -

.....

Head of Department: -

.....

## **ACKNOWLEDGEMENT**

I would like to express my gratitude and heartfelt appreciation to all those who have contributed to the successful completion of my major project, "Roomie: Room Rental Application" without their support, guidance, and encouragement, this project would not have been possible.

We are thankful to our principal *Er. Niraj Shrivastav* for providing the necessary infrastructure and labs. We are greatly thankful to the Head of Department of Computer *Er. Sarita Jayaswal* for providing valuable guidance at every stage of this project work.

We also thank to our project guide *Er. Anish Ansari* for his support throughout this project. I would also like to thank my friends who had their support during the development phase of the project. Their valuable feedback and hard work were helpful in developing the features and functionality of the Room Rental Application.

Last but not the least; we would like to express our deep sense and earnest thanks giving to our Teachers and Friends for their support and co-operation in completing this project successfully. We would also like to thank to our BIT Engineering College.

### **Project Associates:**

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## **ABSTRACT**

The “Roomie: Room Rental Application” is a user-friendly, web-based platform designed to simplify the process of finding and listing rooms for rent, with a primary focus on serving the needs of customers. This application offers a straightforward and efficient solution for students seeking accommodation, as well as individuals looking to rent out their rooms.

The application offers a user-friendly interface making it a breeze for users to explore rooms and for landlords to create and manage their listings. Customers and landlords have the option to create room listings, including all the information, like location, price, room type, amenities and contact details.

Customers can easily search for rooms using filters such as location, price range and room type. This simplifies the process of finding the accommodation. The platform includes user registration and authentication features to ensure the legitimacy of users while providing an environment for interactions.

RoomEase aims to offer a dependable platform for customers looking for housing and landlords searching for tenants. It’s user design and up-front approach make it a valuable tool for connecting customers in need of housing with room owners, within their community.

For this project we use **PHP LARAVEL** version **5.8\*** because the best advantage of using the Laravel framework is that it follows – **Model, View, and Controller** – based architecture pattern and it has an expressive beautiful syntax which makes it object oriented.

# **ABBREVIATIONS AND NOMENCLATURE**

## **1.Flowchart**

A flowchart is a diagram that depicts a process, system or computer algorithm. They are widely used in multiple fields to document, study, plan, improve and communicate often complex processes in clear, easy-to-understand diagrams.

## **2.Function oriented diagram**

A function-oriented diagram (FOD) is a type of data flow diagram (DFD) that shows the functional decomposition of a system. FODs are used to represent the high-level functions of a system, as well as the relationships between those functions.

## **3.Object oriented diagram**

An object-oriented diagram is a graphical representation of the objects and their relationships in an object-oriented system. Object-oriented diagrams are used to model the static structure of a system, as well as the dynamic behavior of the system.

## **4.Er-diagram**

An ER diagram, or entity-relationship diagram, is a graphical representation of the entities, attributes, and relationships of a data model. It is a type of flowchart that uses a defined set of symbols to depict the interconnectedness of entities, relationships, and their attributes.

## **5.Dataflow Diagram**

A data flow diagram (DFD) is a graphical representation of the flow of data through an information system. It is a tool for visualizing the movement of data through a system, and for identifying and understanding the relationships between different components of the system.

## **6.Database Diagram**

A database diagram is a graphical representation of the structure of a database. It shows the tables, columns, and relationships between tables in a database. Database diagrams are used to understand the structure of a database, to communicate the design of a database to others, and to troubleshoot problems with a database.

## **7.Mysql**

MySQL is a powerful and versatile database management system that can be used for a wide variety of purposes. It is a good choice for organizations that need a scalable and reliable database solution.

## **8.User Language**

Any language chosen by user.

## **9.Database**

Database is a collection of organized data in the form of tables.

## **10.Visual Studio**

Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop applications for Windows, macOS, and Linux. Visual Studio includes a code editor, a debugger, a graphical user interface designer, and a variety of other tools for software development.

## **11.VB.Net**

VB.NET is a powerful and versatile language that can be used to develop a wide variety of applications. It is easy to learn, even for beginners, and it includes a wide range of features for software development.

## **12.System Context Diagram**

A system context diagram, also known as a level 0 DFD (Data Flow Diagram), is a high-level visual representation that depicts the interactions between a system and its external entities. It provides an overview of the system and its boundaries, showing how it interacts with external users, systems, and data sources.

## **13.Label Control**

A label control is a graphical user interface (GUI) element that displays text or images on a form. It is usually a static control, meaning that it cannot be interacted with by the user. Labels are typically used to identify other controls on a form, such as text boxes or buttons. They can also be used to display information, such as the current date or time.

## **14.Textbox Control**

A text box control is a graphical user interface (GUI) element that allows users to enter text into a form. It is a versatile control that can be used for a variety of purposes, such as entering a name, address, or password.

## **15.Combobox Control**

A combo box control is a graphical user interface (GUI) element that combines a text box and a drop-down list. It allows users to enter text into the text box or to select an item from the drop-down list. This makes it a versatile control that can be used for a variety of purposes, such as selecting a country, a state, or a product.

## 16.Sql server

SQL Server is a relational database management system (RDBMS) developed and marketed by Microsoft. It is a popular choice for enterprise applications, as it offers a wide range of features and scalability.

## 17.SOME SYNTAX

### A. INSERT:

Insert into tablename(column1, column,.....) Value (value1, value2.....);

### B. UPDATE:

Update tablename Set attribute=value Where condition

### C. DELETE:

Delete from tablename Where conditions

### D. SELECT:

Select attribute from tablename Where condition

## 18.SOME LOCAL TERMS

### A. LOCALHOST:

Local host is a host\user computer in which the software is built.

### B. IF-THEN-ELSE:

If –then-else statement allows the programmer to specify that two different action is to be performed alternatively.

Syntax:

If(condition)then Statement

Else Statement

End if



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